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October 24, 2018 to October 31, 2019

Drill Program

Assessment Report for Borden

Borden and Cochrane Townships

Porcupine District, Ontario, Canada

Prepared By:



Borden Gold

217 Martel Road

Chapleau, Ontario

P0M 1K0

Thursday, May 14, 2020

Daniel Rafuse

## Table of Contents

1. INTRODUCTION.....	2
2. PROPERTY DETAILS .....	2
2.1 Location and Access .....	2
3. PREVIOUS WORK .....	5
4. GEOLOGY .....	5
4.1 Regional Geology.....	5
4.1 Property Geology .....	6
5. Drilling Program.....	8
5.1 Diamond drill procedure .....	8
6. Sample Preparation and Analyses.....	11
7. SUMMARY OF RESULTS .....	12
8. CONCLUSIONS.....	12
9. RECOMMENDATIONS.....	12
10. REFERENCES.....	12
11. LIST OF PERSONNEL .....	13
12. STATEMENT OF QUALIFICATIONS .....	14
Appendix 1. Large scale collar location and drill hole trace maps .....	i
Appendix 2. Core logs .....	ii
Appendix 3. Drill hole cross sections .....	iii
Appendix 4. Assay Certificates .....	iv
Figure 1. Tenure Map.....	2
Figure 2. Assessment tenure area highlighted in red and green.....	4
Figure 3. General Geology of the Southern KSZ and Area A Claim Group (Allen, 2016) .....	7
Figure 4. Diamond drill hole collar location and hole traces overview.....	9
Table 1– Patent Information.....	3

## 1. INTRODUCTION

Newmont Borden Limited (herein called Newmont) contracted Major drilling to complete a drilling campaign over patents and mineral claims on the Borden Gold property, proximal to the Borden Mine. The program took place from October 24<sup>th</sup>, 2018 to October 31<sup>st</sup>, 2019. The focus of the program was to conduct advanced exploration on prospective regional targets, proximal to the known Borden Gold deposit.

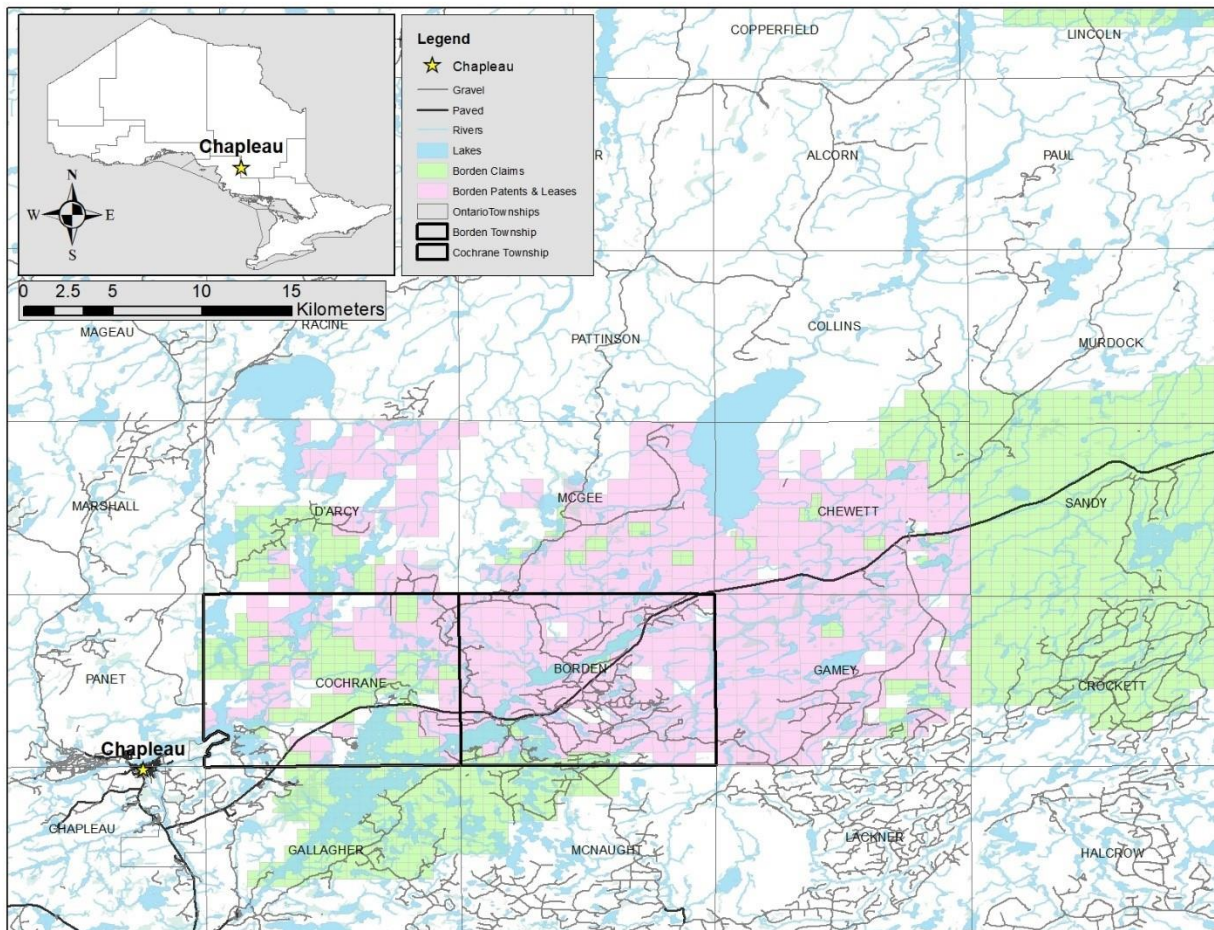
## 2. PROPERTY DETAILS

### 2.1 Location and Access

Drill sites were located between eight to eighteen kilometres East-Northeast of Chapleau within the Borden and Cochrane townships (Figure 1). All drill sites were accessible utilizing historic logging roads via track mounted drill equipment as well as light vehicles.

Work was conducted on several solely owned patents and claims (detailed in Appendix 1), under exploration permit PR-16-11027.

Figure 1. Tenure Map



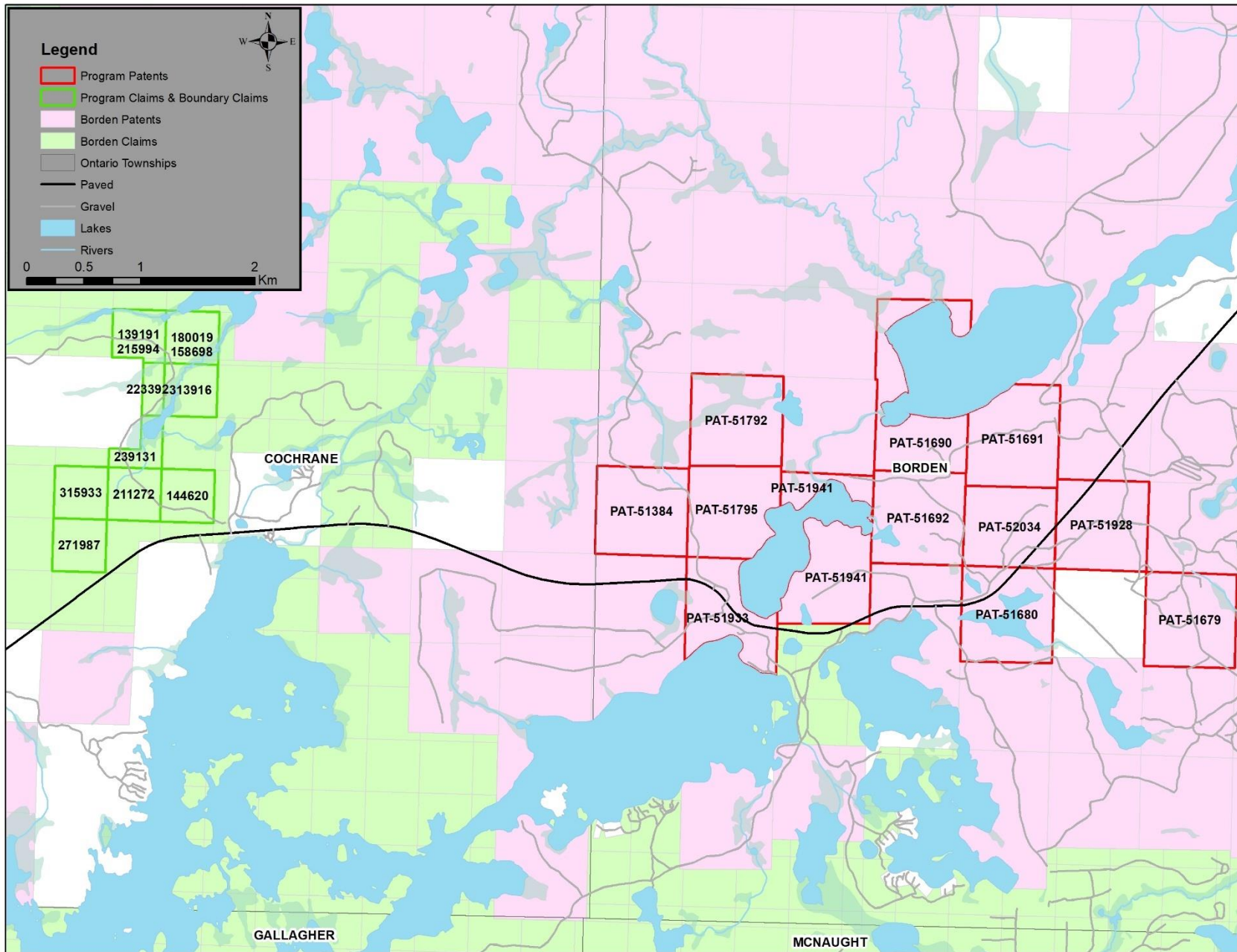
Mineral Claim information (patents & cells) displayed in Table 1.

**Table 1– Patent and Claim Information**

<b>Pin</b>	<b>Township</b>	<b>Lot</b>	<b>Con</b>	<b>Parcel Pin</b>	<b>Owner</b>	<b>Type</b>	<b>MLAS_ID</b>
73104-0202	Borden	6	2	6682SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51679</b>
73104-0172	Borden	7	3	6065SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51928</b>
73104-0174	Borden	8	3	6077SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-52034</b>
73104-0142	Borden	9	3	4772SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51690</b>
73104-0144	Borden	8	3	4773SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51691</b>
73104-0146	Borden	9	3	4780SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51692</b>
73104-0132	Borden	10	2	4794SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51941</b>
73104-0204	Borden	8	2	6683SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51680</b>
73104-0120	Borden	11	3	4774SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51795</b>
73104-0136	Borden	11	3	6095SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51792</b>
73104-0124	Borden	11	2	5459SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51933</b>
73104-0134	Borden	12	3	6112SWS	Goldcorp Canada LTD. (100.00%)	OMP	<b>PAT-51384</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-271987</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-315933</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-211272</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-144620</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-239131</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-313916</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-223392</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-215994</b>
NA	Cochrane	NA	NA	NA	Goldcorp Canada LTD. (100.00%)	OMP	<b>CLM-158698</b>

The land area where drilling was performed is displayed in Figure 2 with boundaries highlighted in red and green.

Figure 2. Assessment tenure area highlighted in red and green. Scale 1:40,000



### **3. PREVIOUS WORK**

1991-1992: Kimberlite Exploration that included heavy mineral concentrate sediment sampling, ground geophysics and glacial sediment sampling.

2001: The Ontario Geological Survey completed a high density airborne magnetic and electromagnetic survey covering the Kapuskasing-Chapleau area and the Kapuskasing Structural Zone.

2014: Probe Mines Limited (Newmont Borden Limited) conducted a regional exploration program. This program included prospecting, outcrop sampling, soil sampling, and till sampling.

2015: Probe Mines (Newmont Borden Limited) contracted IOS Geoscientifique to complete a detailed till survey over the Copperfield and Lincoln claims. A lidar survey was also conducted to assist with planning future work.

2016: Probe Mines (Newmont Borden Limited) completed an airborne magnetic survey on its claims.

2016: The Ontario Geological Survey completed a detailed bedrock mapping at a scale of 1:20,000 encompassing the entirety of Borden and Cochrane Townships.

2014-2018: Probe Mines Limited and Goldcorp drilled 406 holes totaling 172,035 metres. These holes were drilled to explore and define the known deposit and its extent.

### **4. GEOLOGY**

#### **4.1 Regional Geology**

The property is located within the Superior Province, which is subdivided into lithologically distinct subprovinces. Evidence supports formation by large-scale plate interactions, with accretionary processes followed by uplift and erosion. Rocks form an east-west trending pattern of alternating terranes that range in age from 3.5Ga to about 2.6Ga.

Portions of the Wawa Sub-province, the Abitibi Sub-province, and the Kapuskasing Structural Zone underlie the Chapleau area (Thurston et al., 1977). Eastward from the Chapleau area and into Quebec, the Abitibi Sub-province hosts the Timmins-Porcupine, Kirkland Lake-Larder Lake and Cadillac gold camps in addition to the volcanogenic massive sulphide deposits near Rouyn-Noranda.

The Kapuskasing structural zone (KSZ) trends NNE, extending from James Bay south to the Chapleau area where it gradually dies out. The KSZ is characterized by a sharp increase in metamorphic grade, from predominantly greenschist and amphibolite facies to granulite facies assemblages (Thurston et al., 1977).

Several alkalic rocks such as carbonatite complexes along with lamprohyric dykes intruded along the KSZ, approximately 1022 to 1141 Ma ago. The carbonatite occurrences appear to display close spatial relationships with major northeast-striking shear zones. Proximal to the project area, on the northern side of the KSZ, three (3) such complexes are known to occur. These include the Borden Township carbonatite complex, the Nemegosenda Lake alkalic complex; and the Lackner Lake alkalic complex (Allan, 2016).

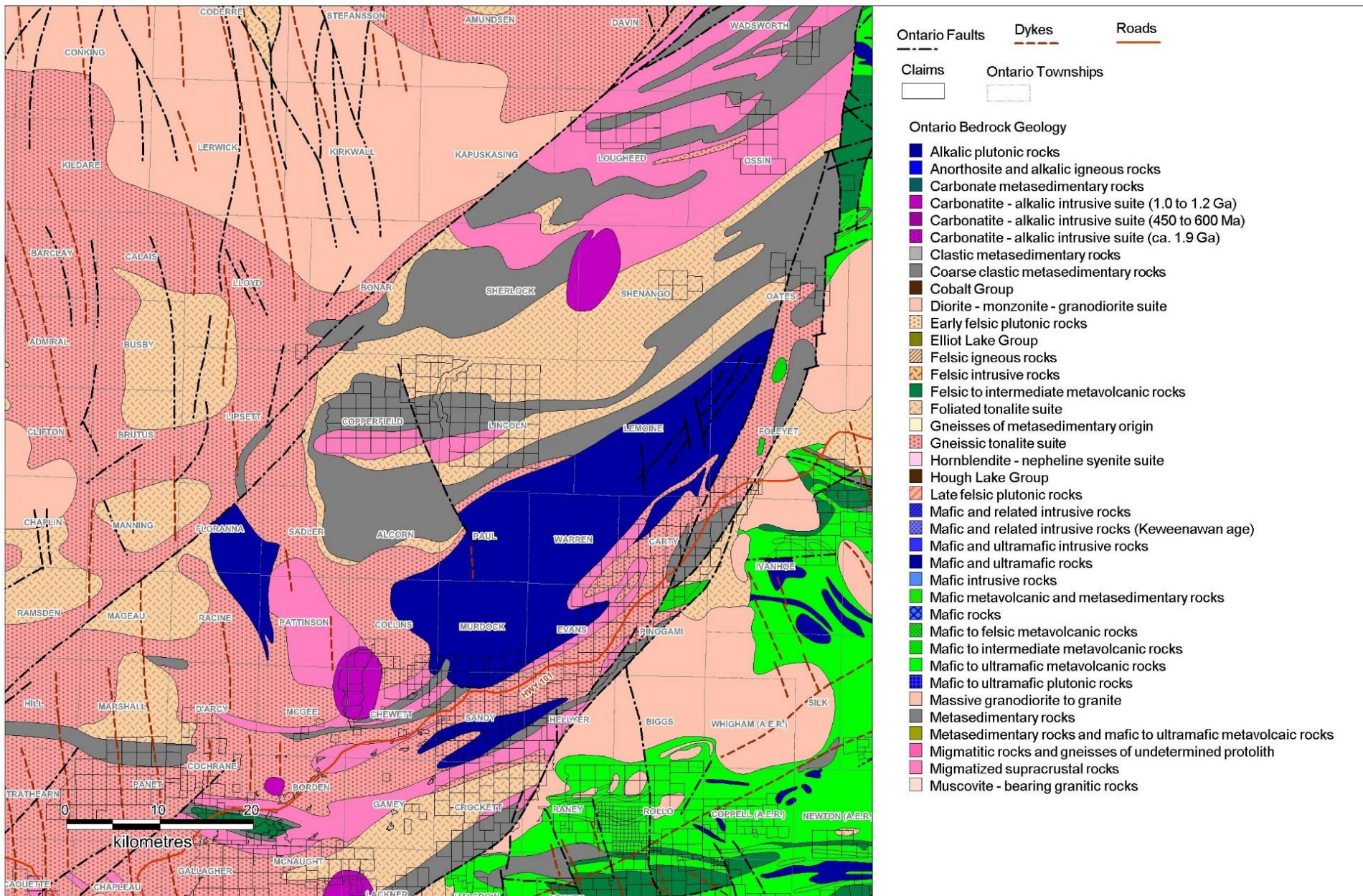
#### **4.1 Property Geology**

The Geology within the tenement package has been characterized by OGS work. The area has east-west to north-east trending felsic to mafic metasedimentary units with minor igneous units, the largest of which are anorthosite and carbonatite origin. (Figure 3).

Exploration encountered large variability of overburden, ranging between 0.5 to more than 40 metres of quaternary material. Bedrock varied between moderately to strongly foliated units that were primarily metasediments, mafic units and foliated felsic intrusives. Minor conglomerate, pegmatite, diabase, and ultramafic units were also intersected.



Figure 3. General Geology of the Southern KSZ and Area A Claim Group (Allen, 2016)



## **5. Drilling Program**

The drilling program developed to test surface bedrock lithologies, determine quaternary cover depth and advance prospective regional targets, East and West of the known Borden Gold deposit. An average goal of 20 metres of bedrock material collection was forecasted for the program. Drilling was focused along historical logging roads for ease of access for the track mounted drilling equipment.

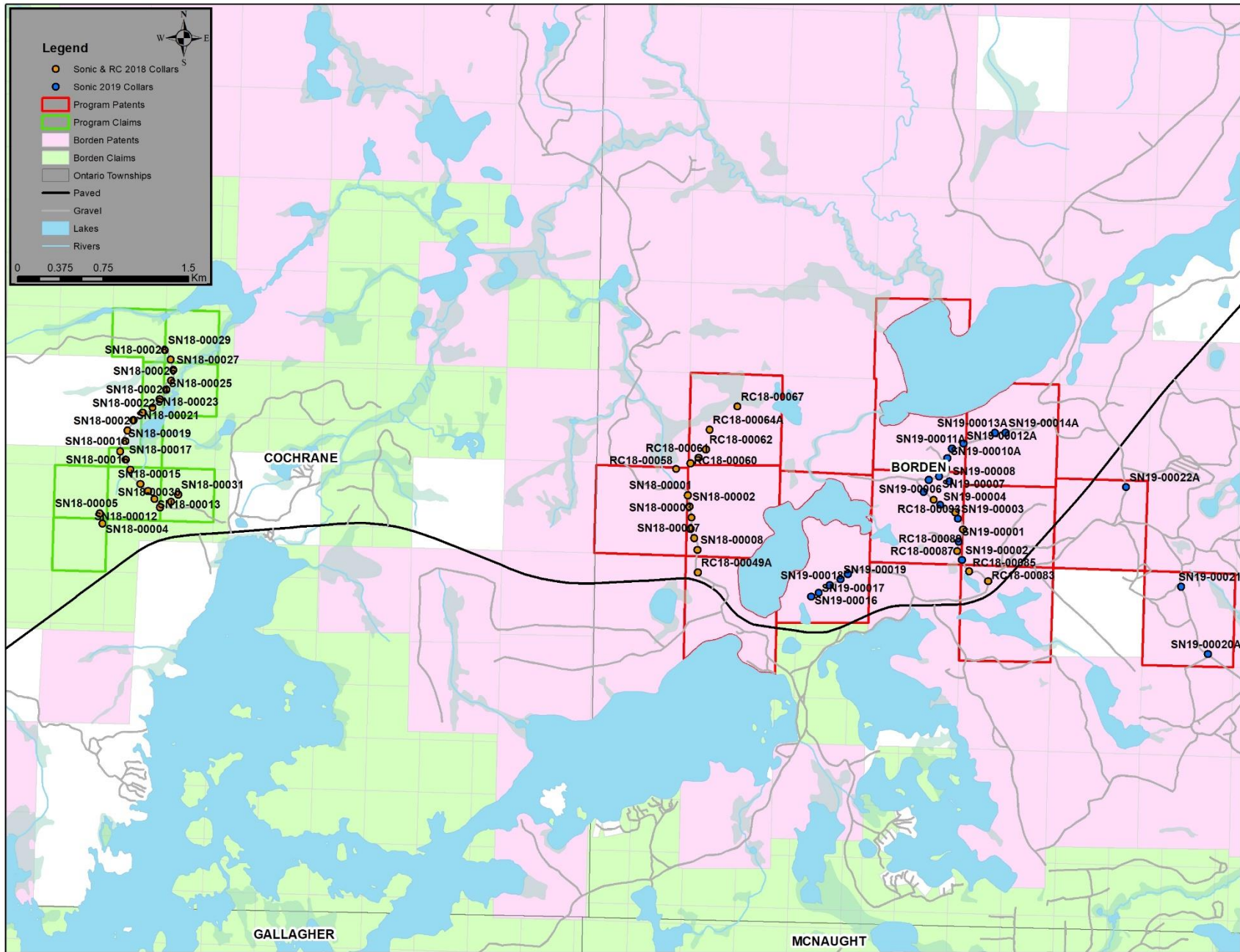
A total of 1469.36 metres of unoriented core was drilled over 48 sonic drill holes in addition to 479.4 metres of RC chips over 13 drill holes was completed from October 2018 to October 2019 (Figure 4). Additionally, overburden-bedrock interface samples were collected and analyzed, if proper till material was intersected. Major Drilling was contracted by Newmont to carry out all drill hole activities. Drill hole logs are provided in Appendix 2.

### **5.1 Drill procedure**

Drill sites were located along historic logging roads and partially cleared if necessary, via skid-steer, which was also used to move some of the drilling equipment from site to site. Once on a drill set up, each drill rig commenced drilling a vertical 90-degree hole. During the drilling process all overburden material was collected with the final 1 or 2 drill lengths being visually inspected by a geologist for till quality and the potential for an interface sample. Drill rigs operated during a 12-hour day shift only, typically ranging from 7AM-7PM. For the sonic drilling portion, core was delivered to Chapleau at the end of each shift. The RC portion of the drilling program required a geologist to be present at all times to collect samples and prepare them for lab analysis. Once at target depth a geologist would determine whether to continue or to move onto the next setup.

Water usage was minimal for the drilling program and drill cuttings were managed with nearby trenches and sumps. All drilling fluids used during the program, including hydraulic and engine oils, were biodegradable products. Semi permeable sump liners were also biodegradable. When holes were completed, all drill rods and casing were removed, if possible, in addition to all holes and sumps being carefully backfilled. Any casing that was irretrievable was marked and labeled with proper hole identification, in addition to a hi-vis flower cap for visibility. Before demobilization commenced, each site was thoroughly cleaned, leveled and later inspected in accordance to all procedures, protocols and legislations. This procedure continued for the duration of the program.

Figure 4. Sonic and RC drill hole collar location and hole traces. 1:40000 Scale



## **6. Sample Preparation and Analyses**

Sonic core and RC chip samples were logged at the core logging facility in Chapleau. For the sonic portion of the program sample intervals were marked by a geologist based on their judgement of changes in the following: mineralization, lithology, veining, structure, sulfides, and alteration. Samples ranged in size from 30 cm to 150 cm. For the RC portion of the program, individual chip samples were collected during the drilling process every 1.5 metres, approximately 1 drill rod length. Once core and chip samples were logged, the core was cut in half and both were placed into polyurethane bags with sample tags for tracking. The samples were shipped to laboratories in 2018 and 2019. All rock samples were analyzed by gold fire-assay and four-acid multi-element analysis with AGAT. All overburden-bedrock interface samples were analyzed by a super-trace multi-element package with ALS. Laboratory certificates are provided in Appendix 3.

## **7. SUMMARY OF RESULTS**

The program provided valuable geological information, which yielded in a stronger interpretation of the Borden Gold regional property. This will aid in the implementation and planning of subsequent programs, as well as a revision of current exploration activities, proximal to the Borden Gold deposit.

## **8. CONCLUSIONS**

The results of the program have yielded follow up targets and advanced the knowledge of the Borden Lake Greenstone Belt.

## **9. RECOMMENDATIONS**

Additional exploration and follow up is recommended.

## **10. REFERENCES**

Allen, S. 2016. Assessment Report on 2016 Airborne Geophysics Survey.

Moser, D.E. 1994. The geology and structure of the mid-crustal Wawa gneiss domain – a key to understanding tectonic variation with depth and time in the late Archean Abitibi-Wawa Orogen. *Canadian Journal of Earth Sciences*, 31: p. 1064-1080.

Percival, J.A. and West, G.F. 1994. The Kapuskasing uplift: a geological and geophysical synthesis; *Canadian Journal of Earth Sciences*, v.31, p.1256-1286.

Percival, J. A. and McGrath, P.H. 1986. Deep crustal structure and tectonic history of the northern Kapuskasing uplift of Ontario: an integrated petrological–geophysical study; *Tectonics*, v.5, no.4, p.553-572.

Thurston, P.C., 1991, Archean geology of Ontario: Introduction, in *Geology of Ontario*, Ontario Geological Survey, Special Volume 4, Part I, p.73-78.

## 11.LIST OF PERSONNEL

The following individuals were involved in the work performed at Borden 2019:

<u>Last Name</u>	<u>First Name</u>	<u>Employer</u>
Belec	Justin	Contractor
Brazeau	Tyler	Contractor
Brooking	Stephen	Newmont
Canning	Perry	Newmont
Clarke	Brad	Newmont
Compton	Tyler	Newmont
Dillon	Matthew	Newmont
Dillon	Patrick	Contractor
Findley	Quin	Contractor
Gauthier	Nia	Contractor
Gerber	William	Newmont
Howson	Charles	Contractor
Jibb	Alex	Newmont
Koski	Terry-Lynn	Contractor
Larcher	Tristan	Contractor
Lay	Lisa	Contractor
Lortie	Denis	Newmont
Lortie	Roger	Newmont
McFadden	Gordon	Newmont
Meyer	Colt	Newmont
Murphy	Steven	Contractor
Nette	Andrew	Newmont
Panamick	Thunder	Contractor
Peskleway	Clayton	Contractor
Rafuse	Daniel	Newmont
Ricardo	Miguel	Newmont
Robin	Mitch	Contractor
Sarrazin	Tony	Newmont
Schweinberger	Mike	Newmont
Shultis	Christine	Newmont
Vallee	Kaleb	Contractor
Walheed	Ahmad	Contractor
Yuill	Craig	Newmont

## 12.STATEMENT OF QUALIFICATIONS

Home Address:

Daniel Rafuse  
862 Auburndale Rd,  
Newcombville, NS  
B4V 7X3

Work Address:

217 Martel Rd,  
Chapleau, ON,  
Borden Gold Mines  
P0M 1K0  
(705) 235-6549  
Daniel.Rafuse@Newmont.com

I, Daniel Rafuse, hereby certify that:

1. I graduated from Saint Mary's University with a Bachelor of Science with a Specialization in Geology.
2. I am employed as an exploration Geologist with Newmont and have practiced within my profession for 9 years.
3. I am familiar with the Borden property and prepared this report.
4. I have no personal interest in any of the mining claims pertaining to this report.

May 13, 2020

Daniel Rafuse

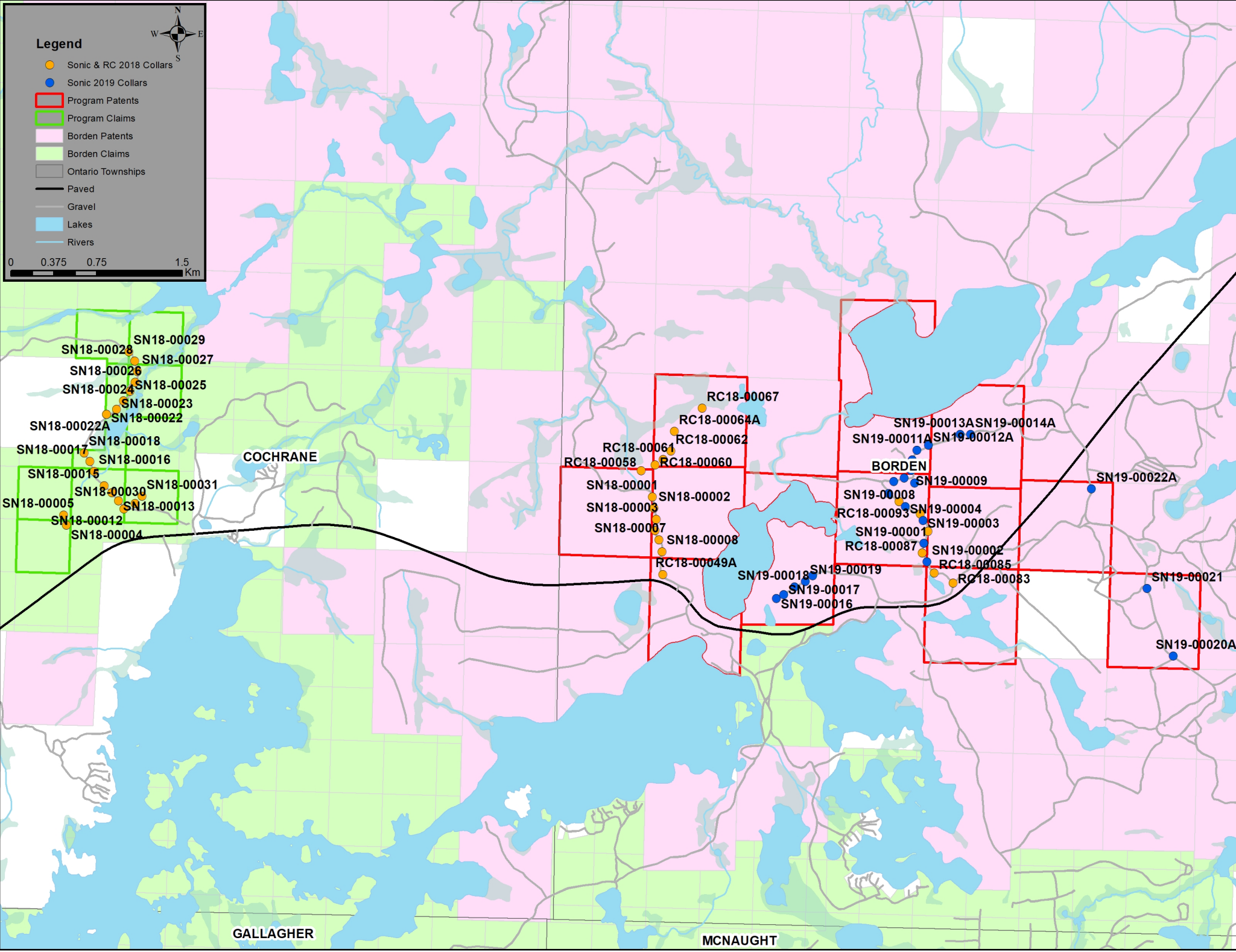
## **Appendix 1. Large scale collar location and drill hole trace maps**



**Legend**

- Sonic & RC 2018 Collars
- Sonic 2019 Collars
- Program Patents
- Program Claims
- Borden Patents
- Borden Claims
- Ontario Townships
- Paved
- Gravel
- Lakes
- Rivers

0 0.375 0.75 1.5 Km



## Appendix 2. Core logs

**Hole ID : RC18-00049A**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 46.9  
 Drill Start : 24-Nov-2018  
 Drill Completed : 25-Nov-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333215  
 Northing : 5304497  
 Elevation : 437  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Nathan.Lintner  
 Logged By 2 :  
 Log Start : 25-Nov-2018  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

No OB sample taken due to the difficulties with the RC drill at this very first RC hole on the program

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	26.90	(OB) Overburden, ( )								No overburden sample collected due to drill problems.
26.90	46.90	(FGS) Felsic Gneiss Sedimentary, ( )								
		A grey; fg; FGS. Has 5-8% biotite (increases down interval). Fairly homogeneous at chip level. Trace fg anhedral pyrite. Minor late potassic and sericite alteration on some chips. EOH	A72904	26.9	28.4	1.5	0.004	AGAT_FAICP		
			A72905	28.4	29.9	1.5	0.005	AGAT_FAICP		
			A72907	29.9	31.4	1.5	0.008	AGAT_FAICP		
			A72908	31.4	32.9	1.5	0.006	AGAT_FAICP		
			A72909	32.9	34.4	1.5	0.005	AGAT_FAICP		
			A72910	34.4	35.9	1.5	0.004	AGAT_FAICP		
			A72919	44.9	46.4	1.5	0.002	AGAT_FAICP		
			A72920	46.4	46.9	0.5	0.002	AGAT_FAICP		
			A72911	35.9	37.4	1.5	0.006	AGAT_FAICP		
			A72913	37.4	38.9	1.5	0.005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72914	38.9	40.4	1.5	0.004	AGAT_FAICP		
			A72915	40.4	41.9	1.5	0.038	AGAT_FAICP		
			A72916	41.9	43.4	1.5	0.005	AGAT_FAICP		
			A72917	43.4	44.9	1.5	0.002	AGAT_FAICP		

**Hole ID :** RC18-00058

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 28.5  
 Drill Start : 3-Dec-2018  
 Drill Completed : 4-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333025  
 Northing : 5305408  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Nathan.Lintner  
 Logged By 2 :  
 Log Start : 3-Dec-2018  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

last run not done: encountered water

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	9.00	(OB) Overburden, ( )	A722967	7.5	9	1.5	0.0011	ALS_ST44		OB
9.00	28.50	(AMP) Amphibolite, ( )	A722968	9	10.5	1.5	0.006	AGAT_FAICP		
		A dark green; fg; AMP. Amphibole dominated. A weak foliation is visible in the alignment of the amphiboles. Very minor pyrite. Minor quartz veining is visible on sporadic chips (white fg and very sugary; likely Q2). Has larger chips of bull white quartz veining between 15.0-16.5 and 19.5-21m. Very thin quartz stringers are also visible sporadically. At 21-27 larger chips of med to coarse off-white calcite (veining?); last run (27-28.5 has only very small chips also with those off-white very small calcite chips and some very small white qtz vein chips; calcite assoc with minor to mod did fine anh py	A722969	10.5	12	1.5	0.004	AGAT_FAICP		
			A722970	12	13.5	1.5	0.004	AGAT_FAICP		
			A722971	13.5	15	1.5	0.006	AGAT_FAICP		
			A722973	15	16.5	1.5	0.003	AGAT_FAICP		
			A722974	16.5	18	1.5	0.007	AGAT_FAICP		
			A722982	27	28.5	1.5	0.002	AGAT_FAICP		
			A722975	18	19.5	1.5	0.004	AGAT_FAICP		
			A722976	19.5	21	1.5	0.006	AGAT_FAICP		
		A722977	21	22.5	1.5	0.005	AGAT_FAICP			

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A722979	22.5	24	1.5	0.002	AGAT_FAICP		
			A722980	24	25.5	1.5	0.002	AGAT_FAICP		
			A722981	25.5	27	1.5	0.002	AGAT_FAICP		

**Hole ID :** RC18-00060

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 32.5  
 Drill Start : 2-Dec-2018  
 Drill Completed : 2-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333144  
 Northing : 5305460  
 Elevation : 433  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Nathan.Lintner  
 Logged By 2 :  
 Log Start : 2-Dec-2018  
 Log Completed : 3-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

First GPS coordinates entered into AQ are wrong (331131; 5305432). New coordinates estimated from map (333147.8; 5305458.4). Re-took Handheld GPS in field

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	14.50	(OB) Overburden, ( )	A72951	13	14.5	1.5	0.0005	ALS_ST44		Overburden
14.50	32.50	(AMP) Amphibolite, ( )	A72953	14.5	16	1.5	0.013	AGAT_FAICP		
			A72954	16	17.5	1.5	0.057	AGAT_FAICP		
			A72955	17.5	19	1.5	0.008	AGAT_FAICP		
			A72956	19	20.5	1.5	0.009	AGAT_FAICP		
			A72957	20.5	22	1.5	0.007	AGAT_FAICP		
			A72959	22	23.5	1.5	0.008	AGAT_FAICP		
			A72960	23.5	25	1.5	0.006	AGAT_FAICP		
			A72961	25	26.5	1.5	0.015	AGAT_FAICP		
			A72962	26.5	28	1.5	0.009	AGAT_FAICP		
			A72963	28	29.5	1.5	0.007	AGAT_FAICP		

A green; fg; AMP. A weaker foliation can be seen within the small chips. By far amphibole dominated. Fairly homogeneous at the chip level. Minor white clear quartz veining that contains very minor fg anhedral pyrite. Rare cpx clots can be seen usually near the veining contact. Has minor leucosomatic bands in 22-23.5m and increased pyrite. Rare felsic FGS chips with rare garnets from 23.5-25.0m and again at 29.5-31.0m. EOH at 32.5m.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72964	29.5	31	1.5	0.005	AGAT_FAICP		
			A72965	31	32.5	1.5	0.007	AGAT_FAICP		EOH



**Hole ID :** RC18-00061

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 29.5  
 Drill Start : 30-Nov-2018  
 Drill Completed : 2-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333220  
 Northing : 5305505  
 Elevation : 441  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

hole abandoned in OB at 29.5m because pressure maxed out; too much water pressure from underneath

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	29.50	(OB) Overburden, ( )								hole abandoned in OB

**Hole ID :** RC18-00062

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 32  
 Drill Start : 30-Nov-2018  
 Drill Completed : 30-Nov-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333286  
 Northing : 5305579  
 Elevation : 443  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Driller mistakenly tossed out second OB sample; so we have only one above bedrock and not the planned two

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	12.00	(OB) Overburden, ( )	A72931	10.5	12	1.5	0.0004	ALS_ST44		
12.00	15.00	(FGS) Felsic Gneiss Sedimentary, (FGSBI) FGS (10-29% BI) above or proximal to gold zone	A72933	12	13.5	1.5	0.0005	AGAT_FAICP		
		fine to med mod fol FGSBI with weakly to mod fine to med bio and frequ med subh gar and weak fine aggreg of musco; minor dis anh fine py; some chips with light grass-green ser alt most likely haloes along fractures	A72934	13.5	15	1.5	0.001	AGAT_FAICP		
15.00	19.50	(GBFG) Garnet Biotite Felsic Gneiss, ( )	A72935	15	16.5	1.5	0.0005	AGAT_FAICP		
		GBFG similar to above but more bio and bio generally a bit coarser and rock has white qtz veining; GBFG is fine to med mod fol with mod fine to med bio and frequ med subh gar and some fine to med aggreg of musco; minor dis anh fine py	A72936	16.5	18	1.5	0.002	AGAT_FAICP		
			A72937	18	19.5	1.5	0.003	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
19.50	22.50	<b>( FGS) Felsic Gneiss Sedimentary, ( FGSBI ) FGS (10-29% BI) above or proximal to gold zone</b>	A72939	19.5	21	1.5	0.001	AGAT_FAICP		
			A72940	21	22.5	1.5	0.0005	AGAT_FAICP		
fine to med mod fol FGSBI with weakly to mod fine to med bio and weak to mod med subh gar (gar decreases downwards); traces of fine to med aggreg of musco; one greenish chip with fans of accicular silimanite in run 7 (21-22.5); minor dis anh fine py; freq chips with light grass-green ser alt most likely haloes along fractures; som minor qtz veining in run 8 (21-22.5)										
22.50	24.00	<b>( FGS, AMP) Felsic Gneiss Sedimentary, Amphibolite, ( FGSBI ) FGS (10-29% BI) above or proximal to gold zone</b>	A72941	22.5	24	1.5	0.007	AGAT_FAICP		
contact/transition from above FGS to below AMP; this run 9 (22.5-24) has chips with both lithologies in it; descriptio of both types of chips same as the corresponding rocks above and below; with white massive qtz veining that occasionally has fine dissem py in it										
24.00	27.00	<b>( AMP) Amphibolite, ( )</b>	A72942	24	25.5	1.5	0.618	AGAT_FAICP		
			A72943	25.5	27	1.5	0.004	AGAT_FAICP		
med weakly fol dark green AMP with strong med slightly accicular am and mod med an to subh gar; weak fine bio; weak to mod fine to med dis anh py										
27.00	32.00	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72944	27	28.5	1.5	0.005	AGAT_FAICP		
			A72945	28.5	30	1.5	0.006	AGAT_FAICP		
			A72947	30	31.5	1.5	0.005	AGAT_FAICP		
			A72948	31.5	32	0.5	0.005	AGAT_FAICP		
fine to med weak to mod fol grey to light grey FGS; weak fine to med bio; weak fine dissem ahy py; runs 12-13 (27-30) and 15 (31.5-32) with some white mas barren qtz veining										

**Hole ID : RC18-00064A**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 31.5  
 Drill Start : 4-Dec-2018  
 Drill Completed : 8-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333318  
 Northing : 5305752  
 Elevation : 437  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>10.50</b>	<b>( OB) Overburden, ( )</b>	A72983	7.5	9	1.5	0.0002	ALS_ST44		OB sample #1
		Overburden samples A72983 (7.5-9.0m's) - A72984 (9.0 - 10.5m's)	A72984	9	10.5	1.5	0.0009	ALS_ST44		OB sample #2
<b>10.50</b>	<b>24.00</b>	<b>( AMP) Amphibolite, ( )</b>	A72985	10.5	12	1.5	0.031	AGAT_FAICP		Bedrock samples start
		Amphibolite contains moderate garnet concentration. Pyrite and pyrrhotite are both present in similar quantities. Minor cpx content.	A72987	12	13.5	1.5	0.0005	AGAT_FAICP		
			A72988	13.5	15	1.5	0.001	AGAT_FAICP		
			A72989	15	16.5	1.5	0.002	AGAT_FAICP		
			A72990	16.5	18	1.5	0.002	AGAT_FAICP		
			A72991	18	19.5	1.5	0.001	AGAT_FAICP		
			A72993	19.5	21	1.5	0.002	AGAT_FAICP		
			A72994	21	22.5	1.5	0.0005	AGAT_FAICP		
			A72995	22.5	24	1.5	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>24.00</b>	<b>27.00</b>	<b>( PEG ) Pegmatite, ( PEGQG ) Quartz-rich Granitic Pegmatite (50-90% quartz)</b>	A72996	24	25.5	1.5	0.0005	AGAT_FAICP		
		Short pegmatite or potential FGS due to minor muscovite presence. Medium grained. High SiO2 content. K-spar along with potassic alteration. Low sulphide content.	A72997	25.5	27	1.5	0.002	AGAT_FAICP		
<b>27.00</b>	<b>31.50</b>	<b>( AMP ) Amphibolite, ( )</b>	A72999	27	28.5	1.5	0.0005	AGAT_FAICP		
		Amphibolite unit has a low sulphide content with both pyrite and pyrrhotite present in similar quantities. Minor garnet presence. Low cpx content. Minor bull/white quartz veining which is barren. EOH=31.5	A73000	28.5	30	1.5	0.0005	AGAT_FAICP		
			A73001	30	31.5	1.5	0.0005	AGAT_FAICP		EOH

**Hole ID :** RC18-00067

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 34.5  
 Drill Start : 29-Nov-2018  
 Drill Completed : 29-Nov-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333563  
 Northing : 5305955  
 Elevation : 432  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole stopped because too much water in the hole; EOH at 34.5m; bedrock: 24-34.5m (7 runs)

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	24.00	(OB) Overburden, ( )	A72921	21	22.5	1.5	0.0009	ALS_ST44		
			A72922	22.5	24	1.5	0.0002	ALS_ST44		
24.00	28.50	(AMP) Amphibolite, ( )	A72923	24	25.5	1.5	0.009	AGAT_FAICP		
		fine to med weakly fol dark grey AMP; with abun fine to med am; weak fine to med bio; the last of these three runs has FGS as well: the contact to below FGS is within this run	A72924	25.5	27	1.5	0.002	AGAT_FAICP		
			A72925	27	28.5	1.5	0.005	AGAT_FAICP		
28.50	31.50	(FGS) Felsic Gneiss Sedimentary, ( )	A72927	28.5	30	1.5	0.004	AGAT_FAICP		
		fine to med light grey weakly fol FGS; weak fine to med bio; some chips with hardly any bio; the last of this two runs has chips of AMP as well; contact to AMP below is within this run	A72928	30	31.5	1.5	0.004	AGAT_FAICP		
31.50	33.00	(AMP) Amphibolite, ( )								

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
		fine to med weakly fol dark grey AMP; with abun fine to med am; weak fine to med bio	A72929	31.5	33	1.5	0.002	AGAT_FAICP		
<b>33.00</b>	<b>34.50</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72930	33	34.5	1.5	0.002	AGAT_FAICP		
		fine to med light grey weakly fol FGS; very felsic rock: very weak fine to med bio								

**Hole ID :** RC18-00083

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 46.5  
 Drill Start : 10-Dec-2018  
 Drill Completed : 11-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335764  
 Northing : 5304422  
 Elevation : 428  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>26.00</b>	<b>( OB) Overburden, ( )</b>	S09621	24	25.5	1.5	0.0008	ALS_ST44		Overburden Sample #1
			S09622	25.5	26	0.5	0.0011	ALS_ST44		Overburden Sample #2
<b>26.00</b>	<b>37.50</b>	<b>( AMP) Amphibolite, ( )</b>	A73002	26	27	1	0.045	AGAT_FAICP		First Bedrock Sample
		Amphibolite has very low sulphide content. Minor white/bull quartz veining which is barren. Trace CPX. Trace garnet	A73003	27	28.5	1.5	0.194	AGAT_FAICP		
			A73004	28.5	30	1.5	0.007	AGAT_FAICP		
			A73005	30	31.5	1.5	0.083	AGAT_FAICP		
			A73007	31.5	33	1.5	0.005	AGAT_FAICP		
			A73008	33	34.5	1.5	0.002	AGAT_FAICP		
			A73009	34.5	36	1.5	0.007	AGAT_FAICP		
			A73010	36	37.5	1.5	0.004	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>37.50</b>	<b>46.50</b>	<b>( PEG ) Pegmatite, ( PEGQG ) Quartz-rich Granitic Pegmatite (50-90% quartz)</b>	A73011	37.5	39	1.5	0.008	AGAT_FAICP		
		Long pegmatite with moderate K-spar content and potassic alteration. Massive biotite. Very low sulphide content. Quartz rich. EOH=46.5	A73013	39	40.5	1.5	0.004	AGAT_FAICP		
			A73014	40.5	42	1.5	0.001	AGAT_FAICP		
			A73015	42	43.5	1.5	0.002	AGAT_FAICP		
			A73016	43.5	45	1.5	0.002	AGAT_FAICP		
			A73017	45	46.5	1.5	0.004	AGAT_FAICP		EOH=46.5

**Hole ID :** RC18-00085

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 34.5  
 Drill Start : 12-Dec-2018  
 Drill Completed : 12-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335597  
 Northing : 5304510  
 Elevation : 412  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>15.00</b>	<b>(OB) Overburden, ( )</b>	S09623	12	13.5	1.5	0.0004	ALS_ST44		Overburden Sample #1
			S09624	13.5	15	1.5	0.0007	ALS_ST44		Overburden Sample #2
<b>15.00</b>	<b>34.50</b>	<b>(AMP) Amphibolite, ( )</b>	A73019	15	16.5	1.5	0.011	AGAT_FAICP		First Bedrock Sample
			A73020	16.5	18	1.5	0.003	AGAT_FAICP		
			A73021	18	19.5	1.5	0.005	AGAT_FAICP		
			A73022	19.5	21	1.5	0.003	AGAT_FAICP		
			A73023	21	22.5	1.5	0.009	AGAT_FAICP		
			A73024	22.5	24	1.5	0.003	AGAT_FAICP		
			A73033	33	34.5	1.5	0.003	AGAT_FAICP		EOH=34.5
			A73025	24	25.5	1.5	0.004	AGAT_FAICP		
			A73027	25.5	27	1.5	0.011	AGAT_FAICP		
			A73028	27	28.5	1.5	0.002	AGAT_FAICP		

Amphibolite contains low garnet content as well as a very low sulphide content. Thin bull/white quartz veins crosscut the unit but are for the most part barren. Minor sericitic alteration around 33.0 - 34.5 m's. CPX content is low. EOH=34.5

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A73029	28.5	30	1.5	0.004	AGAT_FAICP		
			A73030	30	31.5	1.5	0.005	AGAT_FAICP		
			A73031	31.5	33	1.5	0.004	AGAT_FAICP		

**Hole ID :** RC18-00087

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 45  
 Drill Start : 13-Dec-2018  
 Drill Completed : 13-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335492  
 Northing : 5304686  
 Elevation : 436  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>16.50</b>	<b>(OB) Overburden, ( )</b>	S09625	13.5	15	1.5	0.0006	ALS_ST44		Overburden Sample #1
			S09626	15	16.5	1.5	-0.0001	ALS_ST44		Overburden Sample #2
<b>16.50</b>	<b>36.00</b>	<b>(GBFG) Garnet Biotite Felsic Gneiss, ( )</b>	A73034	16.5	18	1.5	0.008	AGAT_FAICP		First Bedrock Sample
		GBFG is fine grained with lavender garnets similar to footwall GBFG. Sulphide content is low. Quartz content is moderate. Minor amphibole throughout.	A73035	18	19.5	1.5	0.282	AGAT_FAICP		
			A73036	19.5	21	1.5	0.016	AGAT_FAICP		
			A73037	21	22.5	1.5	0.004	AGAT_FAICP		
			A73039	22.5	24	1.5	0.004	AGAT_FAICP		
			A73040	24	25.5	1.5	0.412	AGAT_FAICP		
			A73048	34.5	36	1.5	0.004	AGAT_FAICP		
			A73041	25.5	27	1.5	0.003	AGAT_FAICP		
			A73042	27	28.5	1.5	0.005	AGAT_FAICP		
			A73043	28.5	30	1.5	0.003	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A73044	30	31.5	1.5	0.002	AGAT_FAICP		
			A73045	31.5	33	1.5	0.004	AGAT_FAICP		
			A73047	33	34.5	1.5	0.002	AGAT_FAICP		
<b>36.00</b>	<b>45.00</b>	<b>( AMP) Amphibolite, ( )</b>	A73049	36	37.5	1.5	0.005	AGAT_FAICP		
		Amphibolite is fine grained with low cpx/garnet/sulphide content. Minor quartz veining present but barren. EOH=45.0	A73050	37.5	39	1.5	0.005	AGAT_FAICP		
			A73051	39	40.5	1.5	0.005	AGAT_FAICP		
			A73053	40.5	42	1.5	0.004	AGAT_FAICP		
			A73054	42	43.5	1.5	0.005	AGAT_FAICP		
			A73055	43.5	45	1.5	0.004	AGAT_FAICP		EOH=45.0

**Hole ID :** RC18-00089

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 38.5  
 Drill Start : 14-Dec-2018  
 Drill Completed : 14-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335543  
 Northing : 5304875  
 Elevation : 426  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>10.00</b>	<b>(OB) Overburden, ( )</b>	S09627	7.5	9	1.5	0.0203	ALS_ST44		Overburden Sample #1
			S09628	9	10	1	0.0021	ALS_ST44		Overburden Sample #2
<b>10.00</b>	<b>28.00</b>	<b>(AMP) Amphibolite, ( )</b>	A73056	10	11.5	1.5	0.006	AGAT_FAICP		First Bedrock Sample
		Amphibolite contains moderate garnet content. Very low sulphide content. Minor bull/white quartz veining which is barren	A73057	11.5	13	1.5	0.006	AGAT_FAICP		
			A73059	13	14.5	1.5	0.057	AGAT_FAICP		
			A73060	14.5	16	1.5	0.001	AGAT_FAICP		
			A73061	16	17.5	1.5	0.001	AGAT_FAICP		
			A73062	17.5	19	1.5	0.0005	AGAT_FAICP		
			A73063	19	20.5	1.5	0.0005	AGAT_FAICP		
			A73064	20.5	22	1.5	0.0005	AGAT_FAICP		
			A73065	22	23.5	1.5	0.001	AGAT_FAICP		
			A73067	23.5	25	1.5	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A73068	25	26.5	1.5	0.002	AGAT_FAICP		
			A73069	26.5	28	1.5	0.003	AGAT_FAICP		
<b>28.00</b>	<b>38.50</b>	<b>( GBFG) Garnet Biotite Felsic Gneiss, ( )</b>	A73070	28	29.5	1.5	0.001	AGAT_FAICP		
GBFG has moderate sulphide content with pyrite and pyrrhotite both present with pyrite being more dominant of the two. Low garnet content but high in some places = patchy. Moderate quartz content. EOH=38.5			A73071	29.5	31	1.5	0.005	AGAT_FAICP		
			A73073	31	32.5	1.5	0.007	AGAT_FAICP		
			A73074	32.5	34	1.5	0.008	AGAT_FAICP		
			A73075	34	35.5	1.5	0.014	AGAT_FAICP		
			A73076	35.5	37	1.5	0.012	AGAT_FAICP		
			A73077	37	38.5	1.5	0.002	AGAT_FAICP		EOH=38.5

**Hole ID :** RC18-00091

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 46.5  
 Drill Start : 14-Dec-2018  
 Drill Completed : 15-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335475  
 Northing : 5305027  
 Elevation : 446  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	18.00	(OB) Overburden, ( )								
18.00	25.50	(GBFG) Garnet Biotite Felsic Gneiss, ( )	A73079	18	19.5	1.5	0.019	AGAT_FAICP		First Bedrock Sample/No Overburden Samples
		Unit is a combination of GBFG and AMP. Minor garnet content appears to be patchy. Sulphide content is moderately low throughout with pyrite and pyrrhotite both present with the former being the dominant variety. Moderate quartz veining although barren of sulphides. Unit could also be an FGC but difficult to observe clasts at chip scale.	A73080	19.5	21	1.5	0.005	AGAT_FAICP		
			A73081	21	22.5	1.5	0.004	AGAT_FAICP		
			A73082	22.5	24	1.5	0.004	AGAT_FAICP		
			A73083	24	25.5	1.5	0.004	AGAT_FAICP		
25.50	46.50	(AMP) Amphibolite, ( )	A73084	25.5	27	1.5	0.004	AGAT_FAICP		Amphibolite is very fine grained with minor garnet content. Low sulphide content. Thin veinlets crosscut the unit but are barren. EOH=46.5
			A73085	27	28.5	1.5	0.002	AGAT_FAICP		
			A73087	28.5	30	1.5	0.003	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A73088	30	31.5	1.5	0.004	AGAT_FAICP		
			A73089	31.5	33	1.5	0.002	AGAT_FAICP		
			A73090	33	34.5	1.5	0.002	AGAT_FAICP		
			A73099	43.5	45	1.5	0.006	AGAT_FAICP		
			A73100	45	46.5	1.5	0.006	AGAT_FAICP		EOH=46.5
			A73091	34.5	36	1.5	0.003	AGAT_FAICP		
			A73093	36	37.5	1.5	0.004	AGAT_FAICP		
			A73094	37.5	39	1.5	0.009	AGAT_FAICP		
			A73095	39	40.5	1.5	0.008	AGAT_FAICP		
			A73096	40.5	42	1.5	0.006	AGAT_FAICP		
			A73097	42	43.5	1.5	0.006	AGAT_FAICP		

**Hole ID :** RC18-00093

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 33  
 Drill Start : 15-Dec-2018  
 Drill Completed : 16-Dec-2018  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335288  
 Northing : 5305134  
 Elevation : 439  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 18-Dec-2018  
 Log Completed : 18-Dec-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	11.00	(OB) Overburden, ( )	S09629	9	10.5	1.5	0.0047	ALS_ST44		Overburden Sample #1
			S09631	10.5	11	0.5	0.0014	ALS_ST44		Overburden Sample #2
11.00	33.00	(AMP) Amphibolite, ( )	A73101	11	12	1	0.05	AGAT_FAICP		First Bedrock Sample
		Amphibolite is fine to medium grained. Garnet content is moderate throughout but appears to be patchy. An increase in quartz veining around 19.5-25.5. Quartz veining is bull/white and has a low sulphide content. Minor CPX around quartz veining. Pyrite is the dominant sulphide within unit but pyrrhotite is also observable but in very low concentration. EOH=33.0	A73102	12	13.5	1.5	0.003	AGAT_FAICP		
			A73103	13.5	15	1.5	0.005	AGAT_FAICP		
			A73104	15	16.5	1.5	0.724	AGAT_FAICP		
			A73105	16.5	18	1.5	0.345	AGAT_FAICP		
			A73107	18	19.5	1.5	0.002	AGAT_FAICP		
			A73115	28.5	30	1.5	0.004	AGAT_FAICP		
			A73116	30	31.5	1.5	0.002	AGAT_FAICP		
			A73117	31.5	33	1.5	0.01	AGAT_FAICP		EOH=33.0
			A73108	19.5	21	1.5	0.004	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A73109	21	22.5	1.5	0.002	AGAT_FAICP		
			A73110	22.5	24	1.5	0.002	AGAT_FAICP		
			A73111	24	25.5	1.5	0.001	AGAT_FAICP		
			A73113	25.5	27	1.5	0.002	AGAT_FAICP		
			A73114	27	28.5	1.5	0.002	AGAT_FAICP		

**Hole ID :** SN18-00001

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 28.3  
 Drill Start : 24-Oct-2018  
 Drill Completed : 25-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333126  
 Northing : 5305177  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_Plan  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 26-Oct-2018  
 Log Completed : 26-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

RC target 56. Sonic drill head was having mechanical issues so no bedrock overburden samples were collected. NQ core was recovered in the North conglomerate and Le Blanc target area.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	8.30	(OB) Overburden, ( )								
8.30	28.30	(AMP) Amphibolite, ( )								
		Fine-medium grained amphibole with localized sections with increased bioite. Patchy sections with clinopyroxene. Localized sections with potential felsic clasts at 25.5-25.8m. Brecciated section 22.2-22.5. QV2 10.83-10.87m. Patchy localized late stage quartz-carbonate veinlets oblique to the S1 foliation. Patchy	A72744	8.3	9	0.7	0.003	AGAT_FAICP		
			A72745	9	9.6	0.6	0.002	AGAT_FAICP		
			A72747	9.6	10.5	0.9	0.002	AGAT_FAICP		
			A72748	10.5	10.89	0.39	0.004	AGAT_FAICP		
			A72749	10.89	11.5	0.61	0.005	AGAT_FAICP		
			A72750	11.5	12	0.5	0.002	AGAT_FAICP		
			A72773	25.5	26.2	0.7	0.004	AGAT_FAICP		
			A72774	26.2	27	0.8	0.202	AGAT_FAICP		
			A72775	27	27.6	0.6	0.005	AGAT_FAICP		
			A72776	27.6	28.3	0.7	0.005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72765	21	21.7	0.7	0.006	AGAT_FAICP		
			A72767	21.7	22.6	0.9	0.007	AGAT_FAICP		
			A72768	22.6	23.7	1.1	0.009	AGAT_FAICP		
			A72769	23.7	24	0.3	0.003	AGAT_FAICP		
			A72770	24	24.7	0.7	0.002	AGAT_FAICP		
			A72771	24.7	25.5	0.8	0.002	AGAT_FAICP		
			A72759	16.5	17.2	0.7	0.002	AGAT_FAICP		
			A72760	17.2	18	0.8	0.006	AGAT_FAICP		
			A72761	18	18.7	0.7	0.004	AGAT_FAICP		
			A72762	18.7	19.5	0.8	0.004	AGAT_FAICP		
			A72763	19.5	20.2	0.7	0.005	AGAT_FAICP		
			A72764	20.2	21	0.8	0.007	AGAT_FAICP		
			A72751	12	12.7	0.7	0.001	AGAT_FAICP		
			A72753	12.7	13.5	0.8	0.003	AGAT_FAICP		
			A72754	13.5	14.2	0.7	0.002	AGAT_FAICP		
			A72755	14.2	15	0.8	0.002	AGAT_FAICP		
			A72756	15	15.7	0.7	0.002	AGAT_FAICP		
			A72757	15.7	16.5	0.8	0.002	AGAT_FAICP		

**Hole ID :** SN18-00002

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 29  
 Drill Start : 25-Oct-2018  
 Drill Completed : 27-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333139  
 Northing : 5305078  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_Plan  
 Township : Borden  
 Storage Location :

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 28-Oct-2018  
 Log Completed : 28-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

RC target 55. Sonic drill head was having mechanical issues so no bedrock overburden samples were collected. NQ core was recovered in the North conglomerate and Le Blanc target area.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	8.30	(OB) Overburden, ( )								
8.30	9.40	(FGS) Felsic Gneiss Sedimentary, ( )	A72777	8.3	9.4	1.1	0.032	AGAT_FAICP		Fine-medium grained felsic gneiss with increased biotite and amphibole. Locally is grading towards an intermediate composition. Localized fine grained disseminated magnetite. Overall unit is non-weakly magnetic and strongly magnetic where magnetite is present.
9.40	10.00	(UMD) UMLAMP Dike, (LAMPD) UMD - Lamprophyre Dyke	A72779	9.4	10	0.6	0.002	AGAT_FAICP		Lamprophyre dike cutting through the FGS.
10.00	28.30	(FGS) Felsic Gneiss Sedimentary, ( )	A72780	10	10.8	0.8	0.004	AGAT_FAICP		Fine-medium grained felsic gneiss with increased biotite and amphibole. Locally is grading

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
		towards an intermediate composition. Localized fine grained disseminated magnetite. Overall unit is non-weakly magnetic and strongly magnetic where magnetite is present. Amphibolite interlayer 22.65-22.83m. Localized fine grained disseminated pyrite and pyrrhotite associated with biotite and amphibole. Localized sections with moderate-strong brecciation. Later-stage quartz spider veinlets and carbonate veinlets (infilling the breccia sections). Veins/veinlets have a strong sericitic and potassic alteration halo. EOH=28.3m.	A72781	10.8	11.5	0.7	0.073	AGAT_FAICP		
			A72782	11.5	12.3	0.8	0.004	AGAT_FAICP		
			A72783	12.3	13	0.7	0.004	AGAT_FAICP		
			A72784	13	13.8	0.8	0.007	AGAT_FAICP		
			A72785	13.8	14.5	0.7	0.004	AGAT_FAICP		
			A72808	27.3	28.3	1	0.004	AGAT_FAICP		
			A72801	22.83	23.5	0.67	0.003	AGAT_FAICP		
			A72802	23.5	24.24	0.74	0.003	AGAT_FAICP		
			A72803	24.24	25	0.76	0.003	AGAT_FAICP		
			A72804	25	25.8	0.8	0.004	AGAT_FAICP		
			A72805	25.8	26.5	0.7	0.003	AGAT_FAICP		
			A72807	26.5	27.3	0.8	0.03	AGAT_FAICP		
			A72794	19	19.8	0.8	0.003	AGAT_FAICP		
			A72795	19.8	20.5	0.7	0.003	AGAT_FAICP		
			A72796	20.5	21.3	0.8	0.004	AGAT_FAICP		
			A72797	21.3	22	0.7	0.014	AGAT_FAICP		
			A72799	22	22.5	0.5	0.004	AGAT_FAICP		
			A72800	22.5	22.83	0.33	0.004	AGAT_FAICP		
			A72787	14.5	15.3	0.8	0.003	AGAT_FAICP		
			A72788	15.3	16	0.7	0.003	AGAT_FAICP		
			A72789	16	16.8	0.8	0.002	AGAT_FAICP		
			A72790	16.8	17.5	0.7	0.002	AGAT_FAICP		
			A72791	17.5	18.3	0.8	0.004	AGAT_FAICP		
			A72793	18.3	19	0.7	0.003	AGAT_FAICP		

**Hole ID :** SN18-00003

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 33.8  
 Drill Start : 28-Oct-2018  
 Drill Completed : 29-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333154  
 Northing : 5304991  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Nathan.Lintner  
 Logged By 2 :  
 Log Start : 30-Oct-2018  
 Log Completed : 30-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Sonic head broken. No soil recovery.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	13.80	(OB) Overburden, ( )								
13.80	33.80	(FGS) Felsic Gneiss Sedimentary, ( )								
		Fine-medium grained felsic gneiss with increased biotite and amphibole. Locally is grading towards an intermediate composition. Localized fine grained disseminated pyrite and pyrrhotite associated with biotite and amphibole. Localized sections with moderate-strong brecciation. Later-stage quartz spider veinlets and carbonate veinlets (infilling the breccia sections). Some Veins/veinlets have a strong sericitic and potassic alteration halo. EOH=33.8m.	A72809	13.8	14.8	1	0.003	AGAT_FAICP		
			A72810	14.8	15.8	1	0.003	AGAT_FAICP		
			A72811	15.8	16.8	1	0.003	AGAT_FAICP		
			A72813	16.8	17.8	1	0.005	AGAT_FAICP		
			A72814	17.8	18.8	1	0.011	AGAT_FAICP		
			A72815	18.8	19.8	1	0.005	AGAT_FAICP		
			A72830	31	32	1	0.003	AGAT_FAICP		
			A72831	32	33	1	0.003	AGAT_FAICP		
			A72833	33	33.8	0.8	0.003	AGAT_FAICP		
			A72823	25	26	1	0.004	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72824	26	27	1	0.001	AGAT_FAICP		
			A72825	27	28	1	0.002	AGAT_FAICP		
			A72827	28	29	1	0.002	AGAT_FAICP		
			A72828	29	30	1	0.002	AGAT_FAICP		
			A72829	30	31	1	0.002	AGAT_FAICP		
			A72816	19.8	20.8	1	0.004	AGAT_FAICP		
			A72817	20.8	21.8	1	0.002	AGAT_FAICP		
			A72819	21.8	22.65	0.85	0.002	AGAT_FAICP		
			A72820	22.65	23	0.35	0.003	AGAT_FAICP		
			A72821	23	24	1	0.002	AGAT_FAICP		
			A72822	24	25	1	0.004	AGAT_FAICP		

**Hole ID : SN18-00004**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 25.6  
 Drill Start : 4-Oct-2018  
 Drill Completed : 4-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 327983  
 Northing : 5304929  
 Elevation : 440  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 5-Oct-2018  
 Log Completed : 5-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	6.00	(OB) Overburden, ( )								
No sausage bag/interface sample available. Road bed contaminated the sample that was non-retrievable.										
6.00	23.73	(FGS) Felsic Gneiss Sedimentary, ( )	A72623	6	7.33	1.33	0.025	AGAT_FAICP		
FGS is coarse grained with a moderate to strong dioritic fabric. Phenocrysts are poorly formed with the majority being sub rounded. Thin fine grained patches found throughout. Moderate to strong potassic and sericitic alteration via chaotic stringers @ 9.15 - 12.50 m's. Potential fault in highly altered zone. Long thin quartz vein contained rom 16.30 - 17.85 m's (see veining/structure tab). Very low sulphide content.										
			A72624	7.33	8.75	1.42	0.015	AGAT_FAICP		
			A72625	8.75	10.05	1.3	0.034	AGAT_FAICP		
			A72627	10.05	11.4	1.35	0.016	AGAT_FAICP		
			A72628	11.4	12.77	1.37	0.044	AGAT_FAICP		
			A72629	12.77	13.95	1.18	0.024	AGAT_FAICP		
			A72637	19.7	21	1.3	0.012	AGAT_FAICP		
			A72639	21	22.5	1.5	0.003	AGAT_FAICP		
			A72640	22.5	23.73	1.23	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72630	13.95	15	1.05	0.047	AGAT_FAICP		
			A72631	15	16.3	1.3	0.016	AGAT_FAICP		
			A72633	16.3	17.1	0.8	0.018	AGAT_FAICP		
			A72634	17.1	17.92	0.82	0.014	AGAT_FAICP		
			A72635	17.92	18.32	0.4	0.047	AGAT_FAICP		
			A72636	18.32	19.7	1.38	0.005	AGAT_FAICP		
<b>23.73</b>	<b>25.20</b>	<b>( AMP) Amphibolite, ( )</b>	A72641	23.73	25.2	1.47	0.009	AGAT_FAICP		
Fine grained amphibolite. Low cpx. Very low sulphide content. Thin veinlets of moderate potassic alteration. Moderate strain intensity.										
<b>25.20</b>	<b>25.60</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72642	25.2	25.6	0.4	0.006	AGAT_FAICP		EOH
Coarse grained FGS with sporadic veinlets of moderate potassic alteration. Very slow sulphide content.										

**Hole ID :** SN18-00005

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 29.5  
 Drill Start : 5-Oct-2018  
 Drill Completed : 5-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 327960  
 Northing : 5305018  
 Elevation : 440  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 7-Oct-2018  
 Log Completed : 7-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	9.50	<b>(OB) Overburden, ( )</b>								
OB comprises mostly of foreign granodiorites. No sausage available due to poor recovery.										
9.50	11.34	<b>(FGS) Felsic Gneiss Sedimentary, ( )</b>	A72643	9.5	10.07	0.57	0.117	AGAT_FAICP		
Typically logged as an FGS but likely a fine section of an FGS. Patches of cpx/amp and beige/scapolite aggregates. Qtz flooded throughout. Cpx/qtz veins are lightly boudinaged with moderate sulphide content. Both pyrite and pyrrhotite are present within cpx/qtz veins with pyrrhotite comprising 80% of sulphide presence. Disseminated chloritic and sericitic alteration is moderate.										
			A72644	10.07	11.21	1.14	0.309	AGAT_FAICP		
11.34	23.32	<b>(DIO) Diorite, ( )</b>	A72645	11.21	11.74	0.53	0.012	AGAT_FAICP		
Night sky diorite with fine to moderate grained plag/qtz phenocrysts ranging from 0.1 - 3.0 mm's in size. Phenocrysts form range from sub rounded to sub angular. High back ground biotite content. Thin shallow-moderate angled qtz veinlets carrying weak to moderate chloritic and sericitic alteration. Qtz veinlets do not contain any significant sulphide content. Occasional thin lightly folded veinlet of qtz/cpx with weak to moderate sulphide content.										
			A72647	11.74	12.5	0.76	0.021	AGAT_FAICP		
			A72648	12.5	13.75	1.25	0.008	AGAT_FAICP		
			A72649	13.75	14.31	0.56	0.154	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72650	14.31	15.71	1.4	0.003	AGAT_FAICP		
			A72651	15.71	17	1.29	0.002	AGAT_FAICP		
			A72660	21.16	22.34	1.18	0.006	AGAT_FAICP		
			A72661	22.34	23	0.66	0.007	AGAT_FAICP		
			A72662	23	23.32	0.32	0.002	AGAT_FAICP		
			A72653	17	17.64	0.64	0.003	AGAT_FAICP		
			A72654	17.64	18.24	0.6	0.023	AGAT_FAICP		
			A72655	18.24	18.54	0.3	0.009	AGAT_FAICP		
			A72656	18.54	19.06	0.52	0.082	AGAT_FAICP		
			A72657	19.06	20.44	1.38	0.008	AGAT_FAICP		
			A72659	20.44	21.16	0.72	0.005	AGAT_FAICP		
<b>23.32</b>	<b>29.50</b>	<b>( DIO) Diorite, ( )</b>	A72663	23.32	23.74	0.42	0.33	AGAT_FAICP		
		Unit is the same as previous but with a sharp increase in quartz veining/flooding along with an increase in cpx/amp/sulphide content. Interval has a MAM like appearance. Strong sericitic alteration via disseminated stringer network. Moderate to strong disseminated chloritic alteration. Minor scapolite presence. Pyrite and pyrrhotite both present throughout especially in quartz flooded areas and parallel to core axis veinlets. Pyrrhotite presence is dominant over pyrite 65/35. Moderate folding throughout unit with moderately strong strain intensity. EOH	A72664	23.74	24.13	0.39	0.022	AGAT_FAICP		
			A72665	24.13	24.95	0.82	0.015	AGAT_FAICP		
			A72667	24.95	25.47	0.52	0.01	AGAT_FAICP		
			A72668	25.47	26	0.53	0.032	AGAT_FAICP		
			A72669	26	26.55	0.55	0.015	AGAT_FAICP		
			A72670	26.55	27.2	0.65	0.027	AGAT_FAICP		
			A72671	27.2	27.98	0.78	0.013	AGAT_FAICP		
			A72673	27.98	28.58	0.6	0.245	AGAT_FAICP		
			A72674	28.58	29.5	0.92	0.0005	AGAT_FAICP		

**Hole ID :** SN18-00006

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 24.5  
 Drill Start : 31-Oct-2018  
 Drill Completed : 31-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333148  
 Northing : 5304882  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Nathan.Lintner  
 Logged By 2 :  
 Log Start : 1-Nov-2018  
 Log Completed : 1-Nov-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	4.50	(OB) Overburden, ( )								
Casing pulled.										
4.50	10.95	(FGS) Felsic Gneiss Sedimentary, ( )	A72834	4.5	5	0.5	0.021	AGAT_FAICP		
A grey to grey/green; f-mg; moderately foliated FGS. Has slightly elevated biotite and very minor amphiboles throughout. The amphiboles occur in very minor amounts in teh grounmass and in rare thin amphibolite clots. The amphibolite clots often have a very thin reaction rim. Trace pyrite and minor magnetite. The lower contact is sharp.										
			A72835	5	6	1	0.005	AGAT_FAICP		
			A72836	6	7	1	0.005	AGAT_FAICP		
			A72837	7	8	1	0.006	AGAT_FAICP		
			A72839	8	8.95	0.95	0.008	AGAT_FAICP		
			A72840	8.95	9.95	1	0.004	AGAT_FAICP		
			A72841	9.95	10.95	1	0.008	AGAT_FAICP		
10.95	11.53	(AMP) Amphibolite, (AMPIN) Intermediate Amphibolite (50-69% amphibole)	A72842	10.95	11.53	0.58	0.007	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
A grey/green; fg; moderately to strongly foliated AMP. Very amphibole poor and potentially represents more of a mafic sediment. Minor magnetite occurs throughout. Has elevated biotite and a similar fabric to the surrounding FGS but has sharp contacts.										
<b>11.53</b>	<b>23.65</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72843	11.53	12.4	0.87	0.004	AGAT_FAICP		
Similar to the unit at 4.5-10.95m. A grey to grey/green; f-mg; moderately foliated FGS. Weakly heterogeneous with an irregular banded fabric on a mm scale with dm separation. Very minor amphiboles occur in the groundmass but sporadic thin irregular amphibolite clots are intermixed with minor cpx mineralization. Trace pyrite and minor magnetite occurs throughout. Very minor sporadic quartz veining. The lower contact is sharp.			A72844	12.4	13.35	0.95	0.008	AGAT_FAICP		
			A72845	13.35	13.8	0.45	0.004	AGAT_FAICP		
			A72847	13.8	14.8	1	0.004	AGAT_FAICP		
			A72848	14.8	15.8	1	0.003	AGAT_FAICP		
			A72849	15.8	16.5	0.7	0.005	AGAT_FAICP		
			A72857	21.3	22.3	1	0.006	AGAT_FAICP		
			A72859	22.3	23.05	0.75	0.008	AGAT_FAICP		
			A72860	23.05	23.65	0.6	0.003	AGAT_FAICP		
			A72850	16.5	16.9	0.4	0.003	AGAT_FAICP		
			A72851	16.9	17.8	0.9	0.032	AGAT_FAICP		
			A72853	17.8	18.6	0.8	0.002	AGAT_FAICP		
			A72854	18.6	19.6	1	0.001	AGAT_FAICP		
			A72855	19.6	20.3	0.7	0.001	AGAT_FAICP		
			A72856	20.3	21.3	1	0.003	AGAT_FAICP		
<b>23.65</b>	<b>24.43</b>	<b>( UMD) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke</b>	A72861	23.65	24.5	0.85	0.003	AGAT_FAICP		
A dark grey/black; vffg; massive lamprophyre dyke. Has common mafic xenoliths and carbonate clots. Thin chill margins are present. Minor inclusions of the surrounding FGS. The lower contact is sharp.										
<b>24.43</b>	<b>24.50</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>								
Small sliver of the previous FGS. Grey; fg; moderately foliated. Minor amphiboles and elevated biotite occur throughout. Trace fg pyrite and minor magnetite. EOH at 24.5m.										

**Hole ID :** SN18-00007

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length :  
 Drill Start : 31-Oct-2018  
 Drill Completed : 31-Oct-2018  
 Core Size :  
 Drill Company :  
 Oriented Core No

Location Details :

Easting : 333183  
 Northing : 5304801  
 Elevation : 426  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township :  
 Storage Location :

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed sonic via than an NQ drill was affixed and NQ core recovered. RC target 52.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	4.00	(OB) Overburden, ( )								
Casing pulled.										
4.00	23.80	(AMP) Amphibolite, (AMPIN) Intermediate Amphibolite (50-69% amphibole)	A72862	4	5	1	0.004	AGAT_FAICP		
A green/grey; f-mg; moderately to strongly foliated AMP. Amphibole poor and biotite rich> potentially more of a mafic sediment? Has coarser grained quartz sporadically throughout and intervals have a very weak dioritic fabric. Has rare thin irregular bands with minor cpx mineralization. Trace to very minor pyrite. Lacks any considerable veining. EOH at 23.8m.										
			A72863	5	6	1	0.001	AGAT_FAICP		
			A72864	6	7	1	0.001	AGAT_FAICP		
			A72865	7	8	1	0.001	AGAT_FAICP		
			A72867	8	9	1	0.001	AGAT_FAICP		
			A72868	9	10	1	0.001	AGAT_FAICP		
			A72883	22	23	1	0.025	AGAT_FAICP		
			A72884	23	23.8	0.8	0.012	AGAT_FAICP		
			A72876	16	17	1	0.001	AGAT_FAICP		
			A72877	17	18	1	0.009	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72879	18	19	1	0.003	AGAT_FAICP		
			A72880	19	20	1	0.002	AGAT_FAICP		
			A72881	20	21	1	0.006	AGAT_FAICP		
			A72882	21	22	1	0.014	AGAT_FAICP		
			A72869	10	11	1	0.006	AGAT_FAICP		
			A72870	11	12	1	0.006	AGAT_FAICP		
			A72871	12	13	1	0.011	AGAT_FAICP		
			A72873	13	14	1	0.01	AGAT_FAICP		
			A72874	14	15	1	0.014	AGAT_FAICP		
			A72875	15	16	1	0.002	AGAT_FAICP		

**Hole ID : SN18-00008**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 26.3  
 Drill Start : 2-Nov-2018  
 Drill Completed : 4-Nov-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 333209  
 Northing : 5304696  
 Elevation : 431  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 9-Nov-2018  
 Log Completed : 9-Nov-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed sonic via than an NQ drill was affixed and NQ core recovered. RC target 51.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	6.64	(OB) Overburden, ( )								No overburden available due to sonic vibrator inoperable.
6.64	10.74	(FGS) Felsic Gneiss Sedimentary, ( )	A72885	6.64	8.11	1.47	0.004	AGAT_FAICP		
			A72887	8.11	9.21	1.1	0.009	AGAT_FAICP		
			A72888	9.21	10.71	1.5	0.004	AGAT_FAICP		
10.74	18.92	(DIO) Diorite, ( )	A72889	10.71	12.15	1.44	0.018	AGAT_FAICP		
			A72890	12.15	13.4	1.25	0.005	AGAT_FAICP		
			A72891	13.4	14.9	1.5	0.006	AGAT_FAICP		
			A72893	14.9	16.4	1.5	0.005	AGAT_FAICP		
			A72894	16.4	17.9	1.5	0.005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72895	17.9	18.92	1.02	0.003	AGAT_FAICP		
<b>18.92</b>	<b>26.30</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72896	18.92	20.31	1.39	0.005	AGAT_FAICP		
<p>FGS contains moderate to strong strain intensity. Moderately high angled bands of moderate sercitic alteration crosscut the unit throughout. Thin QV2 veins are found throughout with weak to moderate amphibole and cpx content but very low sulphide content. One larger QV2 is contained from 21.39 - 21.65 m's (see veining tab). EOH=26.30m's</p>			A72897	20.31	21.08	0.77	0.006	AGAT_FAICP		
			A72899	21.08	21.65	0.57	0.005	AGAT_FAICP		
			A72900	21.65	23.06	1.41	0.009	AGAT_FAICP		
			A72901	23.06	24.43	1.37	0.008	AGAT_FAICP		
			A72902	24.43	25.2	0.77	0.015	AGAT_FAICP		
			A72903	25.2	26.3	1.1	0.015	AGAT_FAICP		EOH

**Hole ID : SN18-00012**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 24.5  
 Drill Start : 6-Sep-2018  
 Drill Completed : 11-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328489  
 Northing : 5305071  
 Elevation : 436  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 13-Sep-2018  
 Log Completed : 13-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed sonic via than an NQ drill was affixed and NQ core recovered. RC target 0.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	4.45	(OB) Overburden, ( )	S09614	3.7	4.45	0.75	0.0003	ALS_ST44		Overburden
Bedrock interface soil sample recovered from 3.7-4.45m. One half sent to ALS for AU and multielement sample S09614. Other half kept for representative sample. Bedrock interface sample comprised Light grey very fine-grained sand with some silt. Bottom 20 cm contains sub-angular clasts and bedrock fragments ranging from 1-2 cm in size to 8 cm. Approximately 10 % clasts and fragments.										
4.45	10.10	(DIO) Diorite, (DIOAM) Diorite with amphibole	A72131	4.45	5.2	0.75	0.041	AGAT_FAICP		
Medium grained hornblende and biotite rich diorite with quartz and feldspar phenocrysts in an amphibole and biotite matrix. Localized sections with increased amphibole grading towards an intermediate amphibolite at 7.4m. 1-2 cm quartz vein running parallel to core axis 6.6-7.58 and 8.30-9.20 m. Non-magnetic. Core loss 9.2-9.8m.										
			A72133	5.2	5.8	0.6	0.011	AGAT_FAICP		
			A72134	5.8	6.6	0.8	0.009	AGAT_FAICP		
			A72135	6.6	7.58	0.98	0.005	AGAT_FAICP		Quartz vein.
			A72136	7.58	8.3	0.72	0.007	AGAT_FAICP		
			A72137	8.3	9.2	0.9	0.005	AGAT_FAICP		
			A72139	9.8	10.1	0.3	0.012	AGAT_FAICP		Core loss 9.2-9.8 m.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>10.10</b>	<b>11.26</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72140	10.1	10.7	0.6	0.016	AGAT_FAICP		
		Coarse grained felsic gneiss with medium coarse grained biotite along foliation. Biotite clusters are stretched along the S1 foliation. Patchy pyrite associate with crystals of biotite. 1-2 cm layer of fine grained biotite and amphibolite along the upper contact with the diorite. Non-magnetic.	A72141	10.7	11.26	0.56	0.004	AGAT_FAICP		
<b>11.26</b>	<b>22.36</b>	<b>( DIO) Diorite, ( DIOAM ) Diorite with amphibole</b>	A72142	11.26	11.8	0.54	0.014	AGAT_FAICP		
		Similar to unit from 4.45-9.8m. Medium grained hornblende and biotite rich diorite with quartz and feldspar phenocrysts in a amphibole and biotite matrix. Abundant 1-2 mm quartz spider veinlets with potassic and sericitic alteration hales. Non-magnetic.	A72143	11.8	12.5	0.7	0.004	AGAT_FAICP		
			A72144	12.5	13.4	0.9	0.019	AGAT_FAICP		
			A72145	13.4	14.2	0.8	0.005	AGAT_FAICP		
			A72147	14.2	14.85	0.65	0.007	AGAT_FAICP		
			A72148	14.85	15.5	0.65	0.018	AGAT_FAICP		
			A72156	20	20.8	0.8	0.02	AGAT_FAICP		
			A72157	20.8	21.5	0.7	0.012	AGAT_FAICP		
			A72159	21.5	22.36	0.86	0.103	AGAT_FAICP		
			A72149	15.5	16.2	0.7	0.005	AGAT_FAICP		
			A72150	16.2	17	0.8	0.005	AGAT_FAICP		
			A72151	17	17.7	0.7	0.006	AGAT_FAICP		
			A72153	17.7	18.5	0.8	0.003	AGAT_FAICP		
			A72154	18.5	19.3	0.8	0.007	AGAT_FAICP		
			A72155	19.3	20	0.7	0.008	AGAT_FAICP		
<b>22.36</b>	<b>24.50</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72160	22.36	23	0.64	0.674	AGAT_FAICP		
		EOH=24.5m. Irregular but sharp upper contact (possibly folded). Similar to unit from 9.8-11.26m.	A72161	23	23.7	0.7	0.011	AGAT_FAICP		
			A72162	23.7	24.5	0.8	1.21	AGAT_FAICP		

**Hole ID :** SN18-00013

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 24.5  
 Drill Start : 2-Oct-2018  
 Drill Completed : 2-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328440  
 Northing : 5305143  
 Elevation : 437  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 4-Oct-2018  
 Log Completed : 4-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC9. Bedrock interface sample was roadbed gravel and was not recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments								
0.00	4.54	(OB) Overburden, ( )																
No sausage bag as cover was thin and road fill contaminated the short sample.																		
4.54	20.25	(DIO) Diorite, ( DIONS ) Porphyritic (dominantly plagioclase phenocrysts)	A72600	4.54	5.4	0.86	0.006	AGAT_FAICP										
Diorite contains qtz/plag phenocrysts ranging from 0.1 - 3.0 mm's in size and range from sub rounded to sub angular. Unit is transitional from a finer grained low phenocryst frequency FGS to a coarser high phenocryst frequency content. Weak to moderate potassic and sericitic alteration via moderate angled veinlets. Two massive QV2 veins are present but neither contain any significant sulphide content. Both QV2 veins occur parallel to core axis and contain epidote and cpx. Occasional sliver of amphibolite with minor background amphibole content throughout. Weak to moderate stretch lineation along S1 trend.																		
											A72601	5.4	5.9	0.5	0.06	AGAT_FAICP		
											A72602	5.9	6.25	0.35	0.002	AGAT_FAICP		
											A72603	6.25	6.56	0.31	0.0005	AGAT_FAICP		
											A72604	6.56	7.5	0.94	0.002	AGAT_FAICP		
											A72605	7.5	9	1.5	0.002	AGAT_FAICP		
											A72614	16.5	18	1.5	0.0005	AGAT_FAICP		
											A72615	18	19.5	1.5	0.003	AGAT_FAICP		
A72616	19.5	20.25	0.75	0.006	AGAT_FAICP													
A72607	9	9.61	0.61	0.038	AGAT_FAICP													

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72608	9.61	10.5	0.89	0.002	AGAT_FAICP		
			A72609	10.5	12	1.5	0.0005	AGAT_FAICP		
			A72610	12	13.5	1.5	0.006	AGAT_FAICP		
			A72611	13.5	15	1.5	0.004	AGAT_FAICP		
			A72613	15	16.5	1.5	0.001	AGAT_FAICP		
<b>20.25</b>	<b>21.84</b>	<b>( DIA) Diabase Dike, ( )</b>	A72617	20.25	21.3	1.05	0.008	AGAT_FAICP		
		Short diabase with very fine grained plagioclase phenocrysts. Occasional pyrite present. Non magnetic. Low biotite content. Unit is very green but may be the result of chloritic alteration.	A72619	21.3	21.84	0.54	0.009	AGAT_FAICP		
<b>21.84</b>	<b>23.44</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72620	21.84	22.5	0.66	0.022	AGAT_FAICP		
		FGS contains coarse grained and fine grained sections with moderate dioritic fabric. Moderate strain intensity. Very low sulphide content. Qtz/K-Spar phenocrysts are 0.1 - 5.0 mm's and are mainly sub rounded.	A72621	22.5	23.44	0.94	0.0005	AGAT_FAICP		
<b>23.44</b>	<b>24.50</b>	<b>( FGG) Felsic Gneiss Granitic, ( )</b>	A72622	23.44	24.5	1.06	0.003	AGAT_FAICP		EOH
		FGG is transitional from previous FGS with a sharp increase in muscovite. Likely a FGS-FGG. Logged as FGG to stand out in leapfrog								

**Hole ID :** SN18-00014

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 23.3  
 Drill Start : 3-Oct-2018  
 Drill Completed : 3-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328382  
 Northing : 5305212  
 Elevation : 434  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 4-Oct-2018  
 Log Completed : 4-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC10. Bedrock interface sample was roadbed gravel and was not recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	3.55	(OB) Overburden, ( )								No sausage bags due to short cover and road contamination.
3.55	12.30	(DIO) Diorite, ( )	A72580	3.55	4.5	0.95	0.018	AGAT_FAICP		
		Unit is gradational with a finer grained member; either a FGS-CG or a finer grained diorite. Section contains qtz/k-spar phenocrysts ranging from 0.1 - 3.0 mm's and are mainly sub rounded. Phenocrysts and biotite reveal moderate to strong stretch lineation along S1 foliation. Minor background amphibole content which varies throughout. Potassic alteration is moderate to strong via disseminated stringers. Sericitic alteration also present via stringers but is weak to moderate. Sulphide content is very low with pyrite being the dominant species. Thin bull/white/massive/QV2 veins crosscut the unit as moderate angle to core axis and do not contain any significant sulphide content.	A72581	4.5	5.86	1.36	0.003	AGAT_FAICP		
			A72582	5.86	7.24	1.38	0.003	AGAT_FAICP		
			A72583	7.24	8.52	1.28	0.005	AGAT_FAICP		
			A72584	8.52	9.75	1.23	0.003	AGAT_FAICP		
			A72585	9.75	11.25	1.5	0.009	AGAT_FAICP		
			A72587	11.25	12.3	1.05	0.002	AGAT_FAICP		
12.30	12.64	(PEG) Pegmatite, (PEGGR) Granitic Pegmatite (<50% quartz)	A72588	12.3	12.64	0.34	0.391	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
Pegmatite contains several emerald/aquamarine type beryls. Minor carbonate content giving a pitted appearance. Very low sulphide content. Unit contains thin sections of FGS.										
<b>12.64</b>	<b>22.75</b>	<b>( DIO) Diorite, ( )</b>	A72589	12.64	13.92	1.28	0.005	AGAT_FAICP		
Unit is gradational with a finer grained member; either a FGS-CG or a finer grained diorite. Section contains Qtz/k-spar phenocrysts ranging from 0.1 - 3.0 mm's and are mainly sub rounded. Phenocrysts and biotite reveal moderate to strong stretch lineation along S1 foliation. Minor background amphibole content which varies throughout. Potassic alteration is moderate to strong via disseminated stringers. Sericitic alteration also present via stringers but is weak to moderate. Sulphide content is very low with pyrite being the dominant species. Thin bull/white/massive/QV2 veins crosscut the unit as moderate angle to core axis and do not contain any significant sulphide content. Also present is thin pegmatitic veins; which do not contain any significant sulphide content.			A72590	13.92	15.33	1.41	0.014	AGAT_FAICP		
			A72591	15.33	16.76	1.43	0.028	AGAT_FAICP		
			A72593	16.76	18.2	1.44	0.014	AGAT_FAICP		
			A72594	18.2	19.5	1.3	0.021	AGAT_FAICP		
			A72595	19.5	21	1.5	0.013	AGAT_FAICP		
			A72596	21	21.92	0.92	0.097	AGAT_FAICP		
A72597	21.92	22.75	0.83	0.663	AGAT_FAICP					
<b>22.75</b>	<b>23.30</b>	<b>( UMD) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke</b>	A72599	22.75	23.3	0.55	0.091	AGAT_FAICP		
Lamprophyre contains very fine grained phenocrysts of carbonate/plag. A short section of Diorite/FGS-CG is contained in the last 20 cm's with moderate riebeckite presence. Strong alteration near upper and lower contacts. EOH										

**Hole ID :** SN18-00015

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 24.5  
 Drill Start : 30-Sep-2018  
 Drill Completed : 1-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328316  
 Northing : 5305276  
 Elevation : 432  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 4-Oct-2018  
 Log Completed : 4-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC132. Bedrock interface sample was roadbed gravel and was not recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>4.95</b>	<b>( OB) Overburden, ( )</b>								
No sausage bag due to thin cover. Overburden clasts comprise of medium grained pegmatites/Amphibolite/FGS boulders										
<b>4.95</b>	<b>24.50</b>	<b>( DIO) Diorite, ( )</b>								
Diorite contains qtz/k-spar phenocrysts ranging from 0.1 - 3.5 mm's and are mainly sub rounded. Biotite grains and phenocrysts contain strong stretch lineation along S1 foliation. Background amphibole content varies throughout unit with a short amphibolite contained @ 7.84 - 8.00 m's with an upper and lower alpha contacts of 64/34. Potassic alteration ranges from moderate to strong via sporadic veinlets/pervasive flooding/moderate angled bands. Weak to moderate sericitic alteration is also present through the same pathways. A thin lamprophyre is observable @ 18.20 - 18.26 m's with an upper and lower alpha contact of 28/24. A thin QV2 is contained from 9.55 - 9.86 parallel to core axis. See veining tab. EOH										
			A72560	4.95	5.42	0.47	0.008	AGAT_FAICP		
			A72561	5.42	6.9	1.48	0.007	AGAT_FAICP		
			A72562	6.9	7.84	0.94	0.004	AGAT_FAICP		
			A72563	7.84	8.84	1	0.011	AGAT_FAICP		
			A72564	8.84	9.55	0.71	0.003	AGAT_FAICP		
			A72565	9.55	10.5	0.95	0.003	AGAT_FAICP		
			A72574	18.47	19.5	1.03	0.006	AGAT_FAICP		
			A72575	19.5	21	1.5	0.004	AGAT_FAICP		
			A72576	21	22.5	1.5	0.007	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72577	22.5	23.32	0.82	0.004	AGAT_FAICP		
			A72579	23.32	24.5	1.18	0.002	AGAT_FAICP		
			A72567	10.5	12	1.5	0.008	AGAT_FAICP		
			A72568	12	13.15	1.15	0.006	AGAT_FAICP		
			A72569	13.15	14.53	1.38	0.004	AGAT_FAICP		
			A72570	14.53	16	1.47	0.006	AGAT_FAICP		
			A72571	16	17.31	1.31	0.003	AGAT_FAICP		
			A72573	17.31	18.47	1.16	0.003	AGAT_FAICP		

**Hole ID : SN18-00016**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 19.3  
 Drill Start : 30-Sep-2018  
 Drill Completed : 30-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328226  
 Northing : 5305401  
 Elevation : 432  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC24. Bedrock interface sample was roadbed gravel and was not recovered. Rocks were quite blocky and hole was shutdown at 18.5m

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	6.00	(OB) Overburden, ( )								
No bedrock interface sampled collected as it was roadbed gravel. 4.5-6m rock fragments of mixed FGS and AMP. Drillers had water circulation issues likely due to the fractured upper portions of the bedrock.										
6.00	13.50	(DIO) Diorite, ( )	A72540	6	7.5	1.5	0.045	AGAT_FAICP		
Upper portion of unit is brecciated. Intense potassic alteration.										
			A72541	7.5	8.2	0.7	0.006	AGAT_FAICP		
			A72542	8.2	9	0.8	0.004	AGAT_FAICP		
			A72543	9	9.8	0.8	0.003	AGAT_FAICP		
			A72544	9.8	10.5	0.7	0.008	AGAT_FAICP		
			A72545	10.5	11.2	0.7	0.026	AGAT_FAICP		
			A72547	11.2	12	0.8	0.033	AGAT_FAICP		
			A72548	12	12.8	0.8	0.007	AGAT_FAICP		
			A72549	12.8	13.5	0.7	0.008	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>13.50</b>	<b>18.15</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72550	13.5	14.2	0.7	0.024	AGAT_FAICP		
Coarse grained felsic gneiss s. Unit is brecciated and is intensely potassically altered. Localized 1-2 c quartz veins at 13.6 15m 15.1 Patchy pyrite as disseminated crystals and blebs within and at the margin of the quartz veins.			A72551	14.2	15	0.8	0.006	AGAT_FAICP		
			A72553	15	15.3	0.3	0.016	AGAT_FAICP		
			A72554	15.3	16.5	1.2	0.027	AGAT_FAICP		
			A72555	16.5	17.4	0.9	0.009	AGAT_FAICP		
			A72556	17.4	18.15	0.75	0.004	AGAT_FAICP		
<b>18.15</b>	<b>18.90</b>	<b>( AMP) Amphibolite, ( )</b>	A72557	18.15	18.9	0.75	0.011	AGAT_FAICP		
Fine-medium grained amphibolite with late stage hematite alteration withn the matrix and along fractures.										
<b>18.90</b>	<b>19.30</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72559	18.9	19.3	0.4	0.017	AGAT_FAICP		
Similar to unit from 13.5-17.5m. Unit is brecciated with potassic alteration halo. EOH=18.8m.										

**Hole ID :** SN18-00017

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 26.59  
 Drill Start : 29-Sep-2018  
 Drill Completed : 29-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328188  
 Northing : 5305489  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 30-Sep-2018  
 Log Completed : 30-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC23. Bedrock interface sample was roadbed gravel and was not recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	5.70	(OB) Overburden, ( )								No bedrock interace sample collected as OB was roadbed gravel.
5.70	8.70	(FGS) Felsic Gneiss Sedimentary, ( )	A72513	5.7	6.7	1	0.023	AGAT_FAICP		
		Coarse grained quartz and feldspar with fine-medium grained biotite and amphibole along foliation plane. Fine grained disseminated pyrite associated with biotite and amphibole.	A72514	6.7	7.7	1	0.004	AGAT_FAICP		
			A72515	7.7	8.7	1	0.017	AGAT_FAICP		
8.70	10.44	(AMP) Amphibolite, (AMPIN) Intermediate Amphibolite (50-69% amphibole)	A72516	8.7	9.4	0.7	0.02	AGAT_FAICP		
		Fine graned amphibolite with increased felsic matrix. Quartz vein along the core axis from 10.11-10.32m.	A72517	9.4	10.11	0.71	0.005	AGAT_FAICP		
			A72519	10.11	10.44	0.33	0.036	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>10.44</b>	<b>12.50</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b> Similar to unit from 5.7-8.7m. Coarse grained quartz and feldspar with biotite and amphibole along the foliation plane.	A72520	10.44	11.5	1.06	0.002	AGAT_FAICP		
			A72521	11.5	12.5	1	0.003	AGAT_FAICP		
<b>12.50</b>	<b>17.00</b>	<b>( DIO) Diorite, ( )</b> Hornblende rich diorite with coarse grained crystals of quartz and feldspar. Patchy fine grained disseminated pyrite.	A72522	12.5	13.2	0.7	0.007	AGAT_FAICP		
			A72523	13.2	14.2	1	0.009	AGAT_FAICP		
			A72524	14.2	15.2	1	0.086	AGAT_FAICP		
			A72525	15.2	16.2	1	0.01	AGAT_FAICP		
			A72527	16.2	17	0.8	0.054	AGAT_FAICP		
<b>17.00</b>	<b>18.30</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b> Similar to unit from 9.44-12.5m. Coarse grained quartz and feldspar with biotite and amphibole along the foliation plane. Patchy fine grained disseminated pyrite.	A72528	17	18.3	1.3	0.009	AGAT_FAICP		
<b>18.30</b>	<b>26.59</b>	<b>( DIO) Diorite, ( )</b> Similar to unit from 12.5-17. Hornblende rich diorite with coarse grained crystals of quartz and feldspar. Patchy fine grained disseminated pyrite. Upper contact obscured by potassic alteration halo around quartz-carbonate veinlets.	A72529	18.3	19.2	0.9	0.003	AGAT_FAICP		
			A72530	19.2	20.2	1	0.019	AGAT_FAICP		
			A72531	20.2	21.2	1	0.002	AGAT_FAICP		
			A72533	21.2	22.2	1	0.004	AGAT_FAICP		
			A72534	22.2	23.2	1	0.002	AGAT_FAICP		
			A72535	23.2	24.2	1	0.011	AGAT_FAICP		
			A72536	24.2	25.2	1	0.007	AGAT_FAICP		
			A72537	25.2	25.9	0.7	0.001	AGAT_FAICP		
A72539	25.9	26.59	0.69	0.003	AGAT_FAICP					

**Hole ID : SN18-00018**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 28.3  
 Drill Start : 28-Sep-2018  
 Drill Completed : 28-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328138  
 Northing : 5305564  
 Elevation : 434  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 29-Sep-2018  
 Log Completed : 30-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC22. Bedrock interface sample was roadbed gravel and was not recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	8.10	(OB) Overburden, ( )								
8.10	10.50	(FGS) Felsic Gneiss Sedimentary, ( )	A72484	8.1	8.8	0.7	0.003	AGAT_FAICP		
		Medium grained biotite rich felsic gneiss with numerous 1-2 cm scale coarse grained feldspar amphibole clots (melt clots?) Coarse grained quartz eyes with biotite and amphibole rims. Patchy fine grained disseminated pyrite.	A72485	8.8	9.8	1	0.003	AGAT_FAICP		
			A72487	9.8	10.5	0.7	0.0005	AGAT_FAICP		
10.50	18.75	(AMP) Amphibolite, (AMPUM) Ultramafic Amphibolite	A72488	10.5	11.2	0.7	0.006	AGAT_FAICP		
		Fine-medium grained amphibolite unit comprised of amphibole biotite and clinopyroxene. Similar composition and look as the AMPUM seen at Borden. Fault running parallel to core axis from 10.5-11.8 with fault gouge in areas. Unit has later stage fractures infilled by quartz-carbonate both parallel and oblique to core axis. What appears to be riebeckite (blue sodic amphibole) at the margins of the quartz-carbonate veinlets. Fine grained magnetite present and unit is strongly magnetic where it occurs.	A72489	11.2	11.8	0.6	0.004	AGAT_FAICP		
			A72490	11.8	12.6	0.8	0.005	AGAT_FAICP		
			A72491	12.6	13.9	1.3	0.006	AGAT_FAICP		
			A72493	13.9	14.8	0.9	0.007	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72494	14.8	15.7	0.9	0.007	AGAT_FAICP		
			A72495	15.7	16.8	1.1	0.003	AGAT_FAICP		
			A72496	16.8	17.5	0.7	0.006	AGAT_FAICP		
			A72497	17.5	17.9	0.4	0.002	AGAT_FAICP		
			A72499	17.9	18.75	0.85	0.023	AGAT_FAICP		
<b>18.75</b>	<b>21.86</b>	<b>( AMP) Amphibolite, ( )</b>	A72500	18.75	19.8	1.05	0.149	AGAT_FAICP		
		Fine-medium amphibole and biotite and plagioclase unit. Cut by a lamp dike. Quartz-carbonate veinlets oriented parallel an oblique to core axis. Brecciated lower contact.	A72501	19.8	20.8	1	0.008	AGAT_FAICP		
			A72502	20.8	21.86	1.06	0.013	AGAT_FAICP		
<b>21.86</b>	<b>23.10</b>	<b>( UMD) UMLAMP Dike, ( LAMPD) UMD - Lamprophyre Dyke</b>	A72503	21.86	23.1	1.24	0.001	AGAT_FAICP		
		Upper contact till 22.7 m is brecciated. Carbonate veinlets infilling the brecciated sections. Later oxidization and hematite alteration along fractures.								
<b>23.10</b>	<b>27.10</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72504	23.1	23.8	0.7	2.07	AGAT_FAICP		
		Fine-coarse grained biotite rich felsic gneiss s. Localized 1-2 cm scale melt clots. 26.25 m. 2 cm wide quartz vein parallel to core axis.	A72505	23.8	24.8	1	0.069	AGAT_FAICP		
			A72507	24.8	25.8	1	0.029	AGAT_FAICP		
			A72508	25.8	26.25	0.45	0.014	AGAT_FAICP		
			A72509	26.25	27.1	0.85	0.003	AGAT_FAICP		
<b>27.10</b>	<b>27.60</b>	<b>( UMD) UMLAMP Dike, ( LAMPD) UMD - Lamprophyre Dyke</b>	A72510	27.1	27.6	0.5	0.004	AGAT_FAICP		
		Lamp dike cutting FGS unit localized FGS selvage.								
<b>27.60</b>	<b>28.30</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72511	27.6	28.3	0.7	0.004	AGAT_FAICP		
		Similar to unit from 23.1-27.1. Fine-coarse grained biotite rich felsic gneiss s. Localized 1-2 cm scale melt clots. EOH=28.3.								

**Hole ID : SN18-00022**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 25  
 Drill Start : 24-Sep-2018  
 Drill Completed : 25-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328334  
 Northing : 5305901  
 Elevation : 430  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 26-Sep-2018  
 Log Completed : 27-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC18. Bedrock interface was roadbed gravel and was not recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	3.25	(OB) Overburden, ( )								No bedrock interface sample was recovered; as the roadbed gravel was washed away during casing.
3.25	18.50	(AMP) Amphibolite, ( )	A72381	3.25	4	0.75	0.022	AGAT_FAICP		
			A72382	4	4.7	0.7	0.004	AGAT_FAICP		
			A72383	4.7	5.1	0.4	0.004	AGAT_FAICP		
			A72384	5.1	6	0.9	0.006	AGAT_FAICP		
			A72385	6	7	1	0.005	AGAT_FAICP		
			A72387	7	8	1	0.004	AGAT_FAICP		
			A72395	13.9	15.2	1.3	0.004	AGAT_FAICP		
			A72396	15.2	15.7	0.5	0.004	AGAT_FAICP		
			A72397	15.7	16	0.3	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72399	16	16.7	0.7	0.02	AGAT_FAICP		
			A72400	16.7	17.6	0.9	0.003	AGAT_FAICP		
			A72401	17.6	18.5	0.9	0.006	AGAT_FAICP		
			A72388	8	9	1	0.003	AGAT_FAICP		
			A72389	9	10	1	0.006	AGAT_FAICP		
			A72390	10	11	1	0.003	AGAT_FAICP		
			A72391	11	12	1	0.004	AGAT_FAICP		
			A72393	12	13	1	0.004	AGAT_FAICP		
			A72394	13	13.9	0.9	0.004	AGAT_FAICP		
<b>18.50</b>	<b>21.20</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	A72402	18.5	19.7	1.2	0.002	AGAT_FAICP		
		Fine grained intensely brecciated and bleached FGS with intense sericitic alteration. Patchy quartz veins. Black chlorite coating along some of the fractures. Minor sulphides. EOH= 21.2m.	A72403	19.7	20.5	0.8	0.002	AGAT_FAICP		
			A72404	20.5	21.2	0.7	0.004	AGAT_FAICP		

**Hole ID :** SN18-00022A  
**Project :** Borden\_N

Drilling Details :

Azimuth :  
 Dip :  
 Length : 4.5  
 Drill Start : 23-Sep-2018  
 Drill Completed : 23-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328334  
 Northing : 5305900.7  
 Elevation : 430  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Drill rig lost circulation during casing and hole had to be abandoned and named 22A. No overburden or core recovered. Drill was moved a foot:repairs were made to the drill and the hole was reattempt as 22.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	4.50	(OB) Overburden, ( )								Drill rig lost circulation during casing and hole had to be abandoned and named 22A. No overburden or core recovered. Drill was moved a foot:repairs were made to the drill and the hole was reattempt as 22.

**Hole ID :** SN18-00023

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 23.85  
 Drill Start : 23-Sep-2018  
 Drill Completed : 24-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328423  
 Northing : 5305946  
 Elevation : 433  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 24-Sep-2018  
 Log Completed : 24-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC17. Bedrock interface samples collected and sent to ALS for AU and multielement S09620.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	1.58	(OB) Overburden, ( )	S09620	1.2	1.58	0.38	0.0063	ALS_ST44		Overburden
Bedrock interface sample from 1.2-1.58m. Comprised of light gray-green fine grained silty sand with 40% granules of amphibolite and felsic gneiss fragments. Possible contamination from the roadbed gravel. Sample S09620 taken and sent to ALS for Au and multielement. Material recovered above 1.2m is sand and gravel from the logging road.										
1.58	6.72	(AMP) Amphibolite, ( )	A72343	1.58	2	0.42	0.002	AGAT_FAICP		
Fine-medium amphibolite with localized medium-coarse grained garnet porphyroblasts. Increased biotite and garnet porphyroblasts 6.4-6.72 m adjacent to the quartz vein.										
			A72344	2	3	1	0.001	AGAT_FAICP		
			A72345	3	4	1	0.002	AGAT_FAICP		
			A72347	4	5	1	0.002	AGAT_FAICP		
			A72348	5	6	1	0.002	AGAT_FAICP		
			A72349	6	6.4	0.4	0.019	AGAT_FAICP		
			A72350	6.4	6.72	0.32	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>6.72</b>	<b>11.33</b>	<b>( QV ) Quartz Vein, ( QZV ) Quartz Vein Undifferentiated</b>	A72351	6.72	7.1	0.38	0.004	AGAT_FAICP		
Undulating contact. Mainly bull white quartz vein. Localized sections of remnant amphibolite sections of dark grey quartz. Localized medium-coarse grained blebs of pyrrhotite and pyrite.			A72353	7.1	8	0.9	0.005	AGAT_FAICP		
			A72354	8	8.7	0.7	0.007	AGAT_FAICP		
			A72355	8.7	9	0.3	0.003	AGAT_FAICP		
			A72356	9	9.4	0.4	0.002	AGAT_FAICP		
			A72357	9.4	10	0.6	0.007	AGAT_FAICP		
			A72359	10	10.5	0.5	0.002	AGAT_FAICP		
			A72360	10.5	10.95	0.45	0.0005	AGAT_FAICP		
			A72361	10.95	11.33	0.38	0.001	AGAT_FAICP		
<b>11.33</b>	<b>23.85</b>	<b>( AMP ) Amphibolite, ( )</b>	A72362	11.33	12	0.67	0.002	AGAT_FAICP		
Fine-medium grained amphibolite with localized medium-coarsed grained garnet porphyroblasts. Localized clots of biotite. Weak mineralization comprised of fine grained patchy pyrite and pyrrhotite including as inclusions in garnet porphyroblasts. EOH = 23.85m.			A72363	12	13	1	0.005	AGAT_FAICP		
			A72364	13	14	1	0.002	AGAT_FAICP		
			A72365	14	15	1	0.001	AGAT_FAICP		
			A72367	15	16	1	0.001	AGAT_FAICP		
			A72368	16	17	1	0.001	AGAT_FAICP		
			A72376	21	21.7	0.7	0.002	AGAT_FAICP		
			A72377	21.7	22.5	0.8	0.002	AGAT_FAICP		
			A72379	22.5	23.2	0.7	0.001	AGAT_FAICP		
			A72380	23.2	23.85	0.65	0.001	AGAT_FAICP		
			A72369	17	17.6	0.6	0.001	AGAT_FAICP		
			A72370	17.6	18	0.4	0.002	AGAT_FAICP		
			A72371	18	18.5	0.5	0.002	AGAT_FAICP		
			A72373	18.5	19.5	1	0.002	AGAT_FAICP		
			A72374	19.5	20.2	0.7	0.001	AGAT_FAICP		
A72375	20.2	21	0.8	0.002	AGAT_FAICP					

**Hole ID : SN18-00024**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 25.1  
 Drill Start : 22-Sep-2018  
 Drill Completed : 22-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328484  
 Northing : 5306019  
 Elevation : 434  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location :

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 23-Sep-2018  
 Log Completed : 23-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC16. Bedrock interface samples collected and sent to ALS for AU and multielement S09618 and S09619.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>4.50</b>	<b>(OB) Overburden, ( )</b>	S09618	3.4	4.5	1.1	0.0012	ALS_ST44		Overburden
		Bedrock interface sample recovered from 3.3-4.5 m. Sample is a light gray to grained fine grained silty sand till material with angular-subangular granules of amphibolite. Possible contamination from the road bed gravel. Sample S09618 from 3.4-4.5 taken and S09619 3.3-3.4 m. Sample S09619 should have less roadbed gravel/sand contamination.	S09619	3.1	3.4	0.3	0.001	ALS_ST44		True sample interval is 3.3-3.4 m's
<b>4.50</b>	<b>25.10</b>	<b>(AMP) Amphibolite, ( )</b>	A72317	4.5	5.1	0.6	0.001	AGAT_FAICP		
		Fine-medium grained amphibolite with medium-coarse grained garnet porphyroblasts. Garnet clinopyroxene and carbonate layers are locally boudinage. Garnet porphyroblasts are also present within foliation parallel biotite rich layers. Weak sulphide mineralization with patchy pyrrhotite and pyrite. Localized quartz carbonate veinlets and veins parallel to core axis angle. Unit is non-magnetic.	A72319	5.1	5.6	0.5	0.006	AGAT_FAICP		
			A72320	5.6	6.3	0.7	0.01	AGAT_FAICP		
			A72321	6.3	7	0.7	0.001	AGAT_FAICP		
			A72322	7	8	1	0.0005	AGAT_FAICP		
			A72323	8	8.83	0.83	0.001	AGAT_FAICP		
			A72339	21	22	1	0.003	AGAT_FAICP		
			A72340	22	23	1	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72341	23	24	1	0.009	AGAT_FAICP		
			A72342	24	25.1	1.1	0.002	AGAT_FAICP		
			A72331	15	16	1	0.036	AGAT_FAICP		
			A72333	16	17	1	0.002	AGAT_FAICP		
			A72334	17	18	1	0.001	AGAT_FAICP		
			A72335	18	19	1	0.001	AGAT_FAICP		
			A72336	19	20	1	0.013	AGAT_FAICP		
			A72337	20	21	1	0.003	AGAT_FAICP		
			A72324	8.83	10	1.17	0.001	AGAT_FAICP		
			A72325	10	11	1	0.001	AGAT_FAICP		
			A72327	11	12	1	0.004	AGAT_FAICP		
			A72328	12	13	1	0.001	AGAT_FAICP		
			A72329	13	14	1	0.003	AGAT_FAICP		
			A72330	14	15	1	0.004	AGAT_FAICP		



**Hole ID : SN18-00025**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 25.08  
 Drill Start : 21-Sep-2018  
 Drill Completed : 22-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328542  
 Northing : 5306105  
 Elevation : 434  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 23-Sep-2018  
 Log Completed : 23-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC15. Bedrock interface samples collected and sent to ALS for AU and multielement S09617. RC target 15.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>1.80</b>	<b>( OB) Overburden, ( )</b>	S09617	1.5	1.8	0.3	0.0023	ALS_ST44		Overburden sample. Samples is actually 1.6 - 1.8 but acquire will not accept 20 cm intervals
Bedrock interface soil sample recovered from 1.6-1.8 m. Material above is roadbed gravel. Interface sample is fine-medium grained light gray silty sand with 40% granules of amphibolite and felsic rock fragments. Material is wet as it was raining during the recovery. Possible roadbed gravel contamination. Interface sample sent to ALS for Au and Multielement sample S09617.										
<b>1.80</b>	<b>25.08</b>	<b>( AMP) Amphibolite, ( )</b>	A72288	1.8	3	1.2	0.003	AGAT_FAICP		
Fine-medium grained amphibolite with minor biotite along foliation. Weak sulphide mineralization pyrite and pyrrhotite associated with quartz-carbonate veinlets. Patchy 1 cm quartz-carbonate veins. EOH=25.08 m.										
			A72289	3	3.8	0.8	0.001	AGAT_FAICP		
			A72290	3.8	4.5	0.7	0.0005	AGAT_FAICP		
			A72291	4.5	5.2	0.7	0.0005	AGAT_FAICP		
			A72293	5.2	6	0.8	0.0005	AGAT_FAICP		
			A72294	6	7	1	0.002	AGAT_FAICP		
			A72316	24	25.08	1.08	0.004	AGAT_FAICP		
			A72309	18	19	1	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72310	19	20	1	0.002	AGAT_FAICP		
			A72311	20	21	1	0.003	AGAT_FAICP		
			A72313	21	22	1	0.003	AGAT_FAICP		
			A72314	22	23	1	0.004	AGAT_FAICP		
			A72315	23	24	1	0.001	AGAT_FAICP		
			A72302	12	13	1	0.0005	AGAT_FAICP		
			A72303	13	14	1	0.0005	AGAT_FAICP		
			A72304	14	15	1	0.001	AGAT_FAICP		
			A72305	15	16	1	0.0005	AGAT_FAICP		
			A72307	16	17	1	0.002	AGAT_FAICP		
			A72308	17	18	1	0.006	AGAT_FAICP		
			A72295	7	7.9	0.9	0.0005	AGAT_FAICP		
			A72296	7.9	8.45	0.55	0.0005	AGAT_FAICP		
			A72297	8.45	9	0.55	0.0005	AGAT_FAICP		
			A72299	9	10	1	0.0005	AGAT_FAICP		
			A72300	10	11	1	0.001	AGAT_FAICP		
			A72301	11	12	1	0.004	AGAT_FAICP		

**Hole ID :** SN18-00026

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 23  
 Drill Start : 20-Sep-2018  
 Drill Completed : 21-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328587  
 Northing : 5306182  
 Elevation : 430  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 22-Sep-2018  
 Log Completed : 22-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Overburden sample was gravel roadbed material and was washed away during casing process. A bedrock interface sample was recovered/not taken. Target RC14.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	3.00	(OB) Overburden, ( )								No OB sample recovered. Roadbed gravel was washed away.
3.00	23.00	(AMP) Amphibolite, ( )	A72257	3	4	1	0.008	AGAT_FAICP		
			A72259	4	5	1	0.008	AGAT_FAICP		
			A72260	5	6	1	0.004	AGAT_FAICP		
			A72261	6	6.4	0.4	0.006	AGAT_FAICP		
			A72262	6.4	6.7	0.3	0.052	AGAT_FAICP		
			A72263	6.7	7	0.3	0.005	AGAT_FAICP		
			A72285	21	22	1	0.007	AGAT_FAICP		
			A72287	22	23	1	0.004	AGAT_FAICP		
			A72279	17.4	18.1	0.7	0.007	AGAT_FAICP		
			A72280	18.1	19	0.9	0.003	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72281	19	19.4	0.4	0.01	AGAT_FAICP		
			A72282	19.4	19.8	0.4	0.013	AGAT_FAICP		
			A72283	19.8	20.4	0.6	0.004	AGAT_FAICP		
			A72284	20.4	21	0.6	0.006	AGAT_FAICP		
			A72271	12.3	13	0.7	0.005	AGAT_FAICP		
			A72273	13	14	1	0.006	AGAT_FAICP		
			A72274	14	15	1	0.007	AGAT_FAICP		
			A72275	15	16	1	0.006	AGAT_FAICP		
			A72276	16	16.8	0.8	0.005	AGAT_FAICP		
			A72277	16.8	17.4	0.6	0.008	AGAT_FAICP		
			A72264	7	8	1	0.005	AGAT_FAICP		
			A72265	8	9	1	0.005	AGAT_FAICP		
			A72267	9	10	1	0.007	AGAT_FAICP		
			A72268	10	11	1	0.004	AGAT_FAICP		
			A72269	11	11.4	0.4	0.005	AGAT_FAICP		
			A72270	11.4	12.3	0.9	0.041	AGAT_FAICP		

**Hole ID : SN18-00027**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 21.5  
 Drill Start : 15-Sep-2018  
 Drill Completed : 20-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328606  
 Northing : 5306278  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 20-Sep-2018  
 Log Completed : 21-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Overburden sample recovered was gravel roadbed material and a bedrock interface sample was not taken. Target RC13.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	0.30	(OB) Overburden, ( )								
OB sample retrieved was sand and gravel from roadbase. No bedrock interface sample was taken. Lower portion of sample has granules and 5-6 cm wide sections of bedrock mixed with the roadbed gravel and sand.										
0.30	21.50	(AMP) Amphibolite, ( )	A72220	0.3	1.5	1.2	0.008	AGAT_FAICP		
Fine-medium grained amphibolite. Patchy clinopyroxene and minor biotite. Unit has numerous fractures which have been infilled with quartz-carbonate veinlets. Veinlets are oriented oblique and parallel to foliation and some are tightly folded. Patchy fine grained disseminated pyrite within veinlets and the matrix. 4.65-4.73 m beached siliceous section with 1% medium-coarse grained blebby pyrite and pyrrhotite. 16.62-16.68 m - 1 cm quartz veinlet with blebby coarse grained pyrrhotite and disseminated pyrite and chalcopyrite. 19.78-19.9 m - brecciated section with siliceous bands with coarse grained 1-3 cm blebs of pyrrhotite and fine grained disseminated pyrite and chalcopyrite. 20.55-20.57m - 0.5 cm quartz veinlet with disseminated pyrite and pyrrhotite and sericitic alteration halo. 21.28-21.29m- quartz veinlet with fine-medium grained disseminated to blebby pyrite with minor disseminated pyrrhotite.										
			A72221	1.5	2.3	0.8	0.004	AGAT_FAICP		
			A72222	2.3	3	0.7	0.001	AGAT_FAICP		
			A72223	3	3.7	0.7	0.002	AGAT_FAICP		
			A72224	3.7	4.5	0.8	0.003	AGAT_FAICP		
			A72225	4.5	4.8	0.3	0.002	AGAT_FAICP		
			A72255	20.55	20.85	0.3	0.005	AGAT_FAICP		
			A72256	20.85	21.5	0.65	0.002	AGAT_FAICP		
			A72248	17.12	17.42	0.3	0.001	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72249	17.42	18	0.58	0.001	AGAT_FAICP		
			A72250	18	18.75	0.75	0.003	AGAT_FAICP		
			A72251	18.75	19.5	0.75	0.0005	AGAT_FAICP		
			A72253	19.5	19.9	0.4	0.002	AGAT_FAICP		
			A72254	19.9	20.55	0.65	0.001	AGAT_FAICP		
			A72241	12.78	13.5	0.72	0.0005	AGAT_FAICP		
			A72242	13.5	14.3	0.8	0.0005	AGAT_FAICP		
			A72243	14.3	15	0.7	0.001	AGAT_FAICP		
			A72244	15	15.7	0.7	0.0005	AGAT_FAICP		
			A72245	15.7	16.5	0.8	0.001	AGAT_FAICP		
			A72247	16.5	17.12	0.62	0.001	AGAT_FAICP		
			A72234	8.5	9	0.5	0.001	AGAT_FAICP		
			A72235	9	9.67	0.67	0.0005	AGAT_FAICP		
			A72236	9.67	10.5	0.83	0.0005	AGAT_FAICP		
			A72237	10.5	11.25	0.75	0.0005	AGAT_FAICP		
			A72239	11.25	12	0.75	0.002	AGAT_FAICP		
			A72240	12	12.78	0.78	0.005	AGAT_FAICP		
			A72227	4.8	5.4	0.6	0.002	AGAT_FAICP		
			A72228	5.4	6	0.6	0.0005	AGAT_FAICP		
			A72229	6	6.8	0.8	0.001	AGAT_FAICP		
			A72230	6.8	7.5	0.7	0.0005	AGAT_FAICP		
			A72231	7.5	8	0.5	0.0005	AGAT_FAICP		
			A72233	8	8.5	0.5	0.001	AGAT_FAICP		

**Hole ID : SN18-00028**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 23  
 Drill Start : 13-Sep-2018  
 Drill Completed : 19-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328582  
 Northing : 5306368  
 Elevation : 428  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 19-Sep-2018  
 Log Completed : 19-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Mechanical issues delayed the completion of the hole. Drillers built trails for the other target holes while waiting for parts. Target RC12.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	3.49	(OB) Overburden, ( )	S09616	3.19	3.49	0.3	0.0056	ALS_ST44		Overburden
Bedrock Interface sample recovered 0-3.49 m. However due to shallow cover depth road-bed gravel and sand material was recovered and has contaminated the bedrock much of interface sample recovered. As such 30 cm from 3.19-3.49 has been sampled and sent to ALS for AU and multielement testing. S09616. One half was sent for sample and other half was retained for our records. Gravel and sand from road bed was discarded. Sample is a gray fine grained clay silty sand with angular to subangular granules. Approximately 40% granules and are mainly amphibolite.										
3.49	15.07	(AMP) Amphibolite, ( )	A72185	3.49	4.1	0.61	0.002	AGAT_FAICP		
Fine-medium grained amphibole crystals with variable biotite and medium-coarse grained garnet porphyroblasts. Clinopyroxene and garnet porphyroblast layers are boudinaged. Unit has an appearance in sections similar to the Borden footwall amphibolite. Sections with 1-2 cm foliation parallel quartz veining and medium-coarse grained pyrrhotite. Unit is weakly-moderately magnetic where pyrrhotite and fine grained patchy magnetite is present. Localized broken blocky sections of core.										
			A72187	4.1	4.7	0.6	0.033	AGAT_FAICP		
			A72188	4.7	5.4	0.7	0.032	AGAT_FAICP		
			A72189	5.4	6.2	0.8	0.01	AGAT_FAICP		
			A72190	6.2	7.14	0.94	0.011	AGAT_FAICP		
			A72191	7.14	7.44	0.3	0.038	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72200	10.7	11.4	0.7	0.004	AGAT_FAICP		
			A72201	11.4	12.2	0.8	0.007	AGAT_FAICP		
			A72202	12.2	13.1	0.9	0.007	AGAT_FAICP		
			A72203	13.1	13.7	0.6	0.006	AGAT_FAICP		
			A72204	13.7	14.3	0.6	0.004	AGAT_FAICP		
			A72205	14.3	15.07	0.77	0.007	AGAT_FAICP		
			A72193	7.44	7.8	0.36	0.015	AGAT_FAICP		
			A72194	7.8	8.6	0.8	0.023	AGAT_FAICP		
			A72195	8.6	8.9	0.3	0.033	AGAT_FAICP		
			A72196	8.9	9.4	0.5	0.004	AGAT_FAICP		
			A72197	9.4	10.2	0.8	0.006	AGAT_FAICP		
			A72199	10.2	10.7	0.5	0.009	AGAT_FAICP		
<b>15.07</b>	<b>23.00</b>	<b>( AMP) Amphibolite, ( )</b>	A72207	15.07	15.9	0.83	0.002	AGAT_FAICP		
		Fine-medium grained amphibolite with increased biotite and finer grained. Unit is overall weka-moderate magnetic where pyrrhotite is present. Fine-medium grained blebs and disseminated crystals of pyrrhotite along the foliation plane as well as within and the margins of thin quartz veinlets and veins.	A72208	15.9	16.7	0.8	0.001	AGAT_FAICP		
			A72209	16.7	17.4	0.7	0.0005	AGAT_FAICP		
			A72210	17.4	18.2	0.8	0.001	AGAT_FAICP		
			A72211	18.2	18.9	0.7	0.002	AGAT_FAICP		
			A72213	18.9	19.7	0.8	0.0005	AGAT_FAICP		
			A72214	19.7	20.4	0.7	0.005	AGAT_FAICP		
			A72215	20.4	21.2	0.8	0.002	AGAT_FAICP		
			A72216	21.2	21.9	0.7	0.005	AGAT_FAICP		
			A72217	21.9	22.6	0.7	0.003	AGAT_FAICP		
			A72219	22.6	23	0.4	0.002	AGAT_FAICP		



**Hole ID :** SN18-00029

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 15.23  
 Drill Start : 12-Sep-2018  
 Drill Completed : 13-Sep-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328532  
 Northing : 5306451  
 Elevation : 429.5  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Core at Lab

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 14-Sep-2018  
 Log Completed : 14-Sep-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC11.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	1.50	(OB) Overburden, ( )	S09615	0.8	1.5	0.7	0.0117	ALS_ST44		Overburden
Bedrock interface soil sample recovered from 0.8-1.5m. One half sent to ALS for AU and multi-element sample S09615. Other half kept for representative sample. Bedrock interface sample comprised Light grey very fine-fine grained sandy silt. Interval contains numerous sub-angular granules pebbles and bedrock fragments ranging from 1-2 cm in size to 5cm. Approximately 40 % clasts and fragments. Fragments are mainly amphibolite including biotite rich amphibolites. Sample received had at the top brown sand and gravel most likely from the ditch/roadbed of the drill site and was not sampled or retained.										
1.50	4.32	(DIO) Diorite, ( )	A72163	1.5	2.2	0.7	0.001	AGAT_FAICP		
Medium to coarse grained quartz and feldspar phenocrysts and biotite in a felsic matrix. Fine grained 2 cm amphibolite running parallel to core axis from 2.2-2.6 m. Patchy 1-3 mm quartz veinlets with medium to coarse grained pyrite associated. Localized brecciated sections.										
			A72164	2.2	3	0.8	0.006	AGAT_FAICP		
			A72165	3	3.8	0.8	0.008	AGAT_FAICP		
			A72167	3.8	4.32	0.52	0.005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>4.32</b>	<b>5.25</b>	<b>( AMP) Amphibolite, ( )</b>	A72168	4.32	5.25	0.93	0.006	AGAT_FAICP		Fine-medium grained moderately foliated amphibolite. Patchy sections with increased biotite. 4.7-5.2 m section with medium-coarse grained amphibole porphyroblasts. Patchy quartz veinlets cross cutting foliation. Foliation low angle to core axis. Upper contact is lost as it is a rubble zone of broken blocky core.
<b>5.25</b>	<b>5.60</b>	<b>( DIO) Diorite, ( )</b>	A72169	5.25	5.6	0.35	0.02	AGAT_FAICP		Similar unit to diorite at 1.5-4.32 m. Medium to coarse grained quartz and feldspar phenocrysts and biotite in a felsic matrix.
<b>5.60</b>	<b>10.50</b>	<b>( AMP) Amphibolite, ( )</b>	A72170	5.6	6.5	0.9	0.004	AGAT_FAICP		Same unit as 4.32-5.25. Fine-medium grained moderately foliated amphibolite. Patchy sections with increased biotite. 6.5-6.8 m section with medium-coarse grained amphibole porphyroblasts. Patchy quartz veinlets cross cutting foliation. Foliation low angle to core axis. Patchy fine-medium pyrite crystals associated with thin quartz veinlets.
			A72171	6.5	7.5	1	0.003	AGAT_FAICP		
			A72173	7.5	8.3	0.8	0.006	AGAT_FAICP		
			A72174	8.3	9	0.7	0.007	AGAT_FAICP		
			A72175	9	9.8	0.8	0.006	AGAT_FAICP		
			A72176	9.8	10.5	0.7	0.006	AGAT_FAICP		
<b>10.50</b>	<b>11.33</b>	<b>( DIO) Diorite, ( )</b>	A72177	10.5	11.33	0.83	0.011	AGAT_FAICP		Same as unit from 5.25-5.6 m. Lower contact fractured. Patchy very fine grained pyrite associated with crystals of biotite. Irregular but sharp lower contact.
<b>11.33</b>	<b>15.23</b>	<b>( AMP) Amphibolite, ( )</b>	A72179	11.33	12	0.67	0.003	AGAT_FAICP		Same as unit from 5.6-10.5 m. Fine-medium grained moderately foliated amphibolite. Patchy sections with increased biotite. 6.5-6.8 m section with medium-coarse grained amphibole porphyroblasts. Patchy quartz veinlets cross cutting foliation. Foliation low angle to core axis. Patchy fine-medium pyrite crystals associated with thin quartz veinlets. Localized patchy clinopyroxene. Localized blocky and broken core. EOH=15.23m.
			A72180	12	12.7	0.7	0.007	AGAT_FAICP		
			A72181	12.7	13.5	0.8	0.006	AGAT_FAICP		
			A72182	13.5	13.89	0.39	0.006	AGAT_FAICP		
			A72183	13.89	14.75	0.86	0.643	AGAT_FAICP		
			A72184	14.75	15.23	0.48	0.004	AGAT_FAICP		

**Hole ID :** SN18-00030

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 40.6  
 Drill Start : 22-Oct-2018  
 Drill Completed : 23-Oct-2018  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 328586  
 Northing : 5305119  
 Elevation : 434.6  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Cochrane  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 24-Oct-2018  
 Log Completed : 24-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

RC target XX. Drilled sonic/NQ. Bedrock interface OB sample not collected as sonic head was having mechanical troubles. NW casing installed via NQ head. Hole was extended due to interesting lithologies encountered in the nearby SN18-00013 and the inability of the drill to recollar on and extend hole 13.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	7.10	(OB) Overburden, ( )								
No bedrock interface sample collected as sonic drill head was non-functional.										
7.10	25.33	(DIO) Diorite, ( )	A72689	7.1	7.6	0.5	0.033	AGAT_FAICP		
Medium to coarse grained quartz and feldspar phenocrysts within a fine-medium grained amphibole and biotite rich matrix. Localized potassic and seritic alteration haloes around quartz spider veinlets. Patchy clots of cm-scale granitic pegmatite. QV2 quartz veins 21.1-21.28 and 24.4-24.5m. Fine grained quartz vein running parallel to core axis 8.3-9.1m.			A72690	7.6	8.3	0.7	0.004	AGAT_FAICP		
			A72691	8.3	9.1	0.8	0.009	AGAT_FAICP		
			A72693	9.1	9.8	0.7	0.004	AGAT_FAICP		
			A72694	9.8	10.6	0.8	0.004	AGAT_FAICP		
			A72695	10.6	11.3	0.7	0.003	AGAT_FAICP		
			A72717	23.3	24.1	0.8	0.002	AGAT_FAICP		
			A72719	24.1	24.7	0.6	0.042	AGAT_FAICP		
			A72720	24.7	25.33	0.63	0.007	AGAT_FAICP		
			A72710	19.6	20.3	0.7	0.005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72711	20.3	21.1	0.8	0.003	AGAT_FAICP		
			A72713	21.1	21.4	0.3	0.003	AGAT_FAICP		
			A72714	21.4	22	0.6	0.004	AGAT_FAICP		
			A72715	22	22.6	0.6	0.003	AGAT_FAICP		
			A72716	22.6	23.3	0.7	0.007	AGAT_FAICP		
			A72703	15.8	16.6	0.8	0.01	AGAT_FAICP		
			A72704	16.6	17.3	0.7	0.005	AGAT_FAICP		
			A72705	17.3	18.1	0.8	0.015	AGAT_FAICP		
			A72707	18.1	18.68	0.58	0.006	AGAT_FAICP		
			A72708	18.68	18.99	0.31	0.007	AGAT_FAICP		
			A72709	18.99	19.6	0.61	0.008	AGAT_FAICP		
			A72696	11.3	12.1	0.8	0.005	AGAT_FAICP		
			A72697	12.1	12.8	0.7	0.006	AGAT_FAICP		
			A72699	12.8	13.6	0.8	0.011	AGAT_FAICP		
			A72700	13.6	14.3	0.7	0.002	AGAT_FAICP		
			A72701	14.3	15.1	0.8	0.007	AGAT_FAICP		
			A72702	15.1	15.8	0.7	0.006	AGAT_FAICP		
<b>25.33</b>	<b>25.90</b>	<b>( AMP) Amphibolite, ( )</b>	A72721	25.33	25.9	0.57	0.005	AGAT_FAICP		
		Fine-medium layer of amphibolite at the contact of a diorite and QFP. Unit is lacking strong foliation or sulphides.								
<b>25.90</b>	<b>28.15</b>	<b>( QFP) Quartz Feldspar Porphyry, ( )</b>	A72722	25.9	27.1	1.2	0.008	AGAT_FAICP		
		Coarse grained-very coarse grained feldspar and quartz phenocrysts within a fine-medium grained amphibolite biotite and felsic matrix.	A72723	27.1	28.15	1.05	0.018	AGAT_FAICP		
<b>28.15</b>	<b>28.88</b>	<b>( AMP) Amphibolite, ( )</b>	A72724	28.15	28.88	0.73	0.014	AGAT_FAICP		
		Amphibolite selvage within QFP unit. Foliation is more well developed than the structure in the amphibolite unit 25.33-25.9m.								
<b>28.88</b>	<b>31.00</b>	<b>( QFP) Quartz Feldspar Porphyry, ( )</b>	A72725	28.88	29.4	0.52	0.004	AGAT_FAICP		
		Coarse grained-very coarse grained feldspar and quartz phenocrysts within a fine-medium grained amphibolite biotite and felsic matrix. Same unit as from 25.9-28.15m.	A72727	29.4	30.1	0.7	0.002	AGAT_FAICP		
			A72728	30.1	31	0.9	0.025	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments			
<b>31.00</b>	<b>39.66</b>	<b>( DIO) Diorite, ( )</b>	A72729	31	31.6	0.6	0.002	AGAT_FAICP					
Medium to coarse grained quartz and feldspar phenocrysts within a fine-medium grained amphibole and biotite rich matrix. Localized potassic and seritic alteration haloes around quartz spider veinlets. Patchy clots of cm-scale granitic pegmatite. Amphibolite selvage from 34.35-34.47m. Patchy finer grained sections. Similar to unit from 7.1-25.33m.			A72730	31.6	32.3	0.7	0.002	AGAT_FAICP					
			A72731	32.3	33.1	0.8	0.007	AGAT_FAICP					
			A72733	33.1	33.8	0.7	0.002	AGAT_FAICP					
			A72734	33.8	34.6	0.8	0.003	AGAT_FAICP					
			A72735	34.6	35.3	0.7	0.002	AGAT_FAICP					
			A72736	35.3	36.1	0.8	0.006	AGAT_FAICP					
			A72737	36.1	36.8	0.7	0.006	AGAT_FAICP					
			A72739	36.8	37.6	0.8	0.003	AGAT_FAICP					
			A72740	37.6	38.3	0.7	0.004	AGAT_FAICP					
			A72741	38.3	39	0.7	0.003	AGAT_FAICP					
			A72742	39	39.66	0.66	0.003	AGAT_FAICP					
			<b>39.66</b>	<b>40.60</b>	<b>( QFP) Quartz Feldspar Porphyry, ( )</b>	A72743	39.66	40.6	0.94	0.033	AGAT_FAICP		
			Coarse grained-very coarse grained feldspar and quartz phenocrysts within a fine-medium grained amphibolite biotite and felsic matrix. Same unit as from 28.88-31m. EOH=40.6m.										

**Hole ID :** SN18-00031

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 19.4  
 Drill Start : 21-Oct-2018  
 Drill Completed : 21-Oct-2018  
 Core Size :  
 Drill Company :  
 Oriented Core No

Location Details :

Easting : 328647  
 Northing : 5305182  
 Elevation : 435.5  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township :  
 Storage Location :

Logging Details :

Logged By : Craig.Yuill  
 Logged By 2 :  
 Log Start : 25-Oct-2018  
 Log Completed : 25-Oct-2018  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled using a sonic rig. Whereby casing was installed via sonic than an NQ drill was affixed and NQ core recovered. Target RC2. Bedrock interface sample was roadbed gravel and was not recovered due to an inoperative sonic/vibration component.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>7.80</b>	<b>( OB) Overburden, ( )</b>								
No bedrock over burden sample collected as sonic drill head was having mechanical issues.										
<b>7.80</b>	<b>10.54</b>	<b>( FGC) Felsic Gneiss Conglomerate, ( )</b>	A72675	7.8	8.9	1.1	0.028	AGAT_FAICP		
Felsic mafic and diorite clasts in an amphibole rich matrix within a conglomeratic unit.			A72676	8.9	9.8	0.9	0.006	AGAT_FAICP		
Localized biotite. Patchy 1-2 cm QV2 quartz veins including a vein from 7.65-7.8m.			A72677	9.8	10.54	0.74	0.016	AGAT_FAICP		
<b>10.54</b>	<b>18.50</b>	<b>( QFP) Quartz Feldspar Porphyry, ( )</b>	A72679	10.54	11.9	1.36	0.021	AGAT_FAICP		
Coarse grained quartz and feldspar phenocrysts within a fine-medium amphibole and felsic matrix. Localized potassic alteration.			A72680	11.9	13.26	1.36	0.004	AGAT_FAICP		
			A72681	13.26	14.4	1.14	0.003	AGAT_FAICP		
			A72682	14.4	15.8	1.4	0.005	AGAT_FAICP		
			A72683	15.8	17	1.2	0.01	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			A72684	17	17.9	0.9	0.002	AGAT_FAICP		
			A72685	17.9	18.5	0.6	0.004	AGAT_FAICP		
<b>18.50</b>	<b>19.00</b>	<b>( QV) Quartz Vein, ( QZVT2) Massive quartz vein</b> Bull white quartz vein within QFP.	A72687	18.5	19	0.5	0.011	AGAT_FAICP		
<b>19.00</b>	<b>19.40</b>	<b>( QFP) Quartz Feldspar Porphyry, ( )</b> Coarse grained quartz and feldspar phenocrysts within a fine-medium amphibole and felsic matrix. Localized potassic alteration. Same unit as 10.54-18.5m. EOH=19.4m.	A72688	19	19.4	0.4				

**Hole ID : SN19-00001**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 37.5  
 Drill Start : 5-Sep-2019  
 Drill Completed : 7-Sep-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335507  
 Northing : 5304769  
 Elevation : 419  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Tyler.Compton  
 Logged By 2 :  
 Log Start : 9-Sep-2019  
 Log Completed : 9-Sep-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was drilled without notable issues. Hole intercepted FGC and FGS. OB sample consisted of bedrock and clay rich gravel.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	14.50	<b>(OB) Overburden, ( )</b> Overburden. Grey. Coarse sand to fine gavel; 2-10mm; subangular. Clasts: Qz>Kspr>lithics (FGS; QV). Occasional subround cobbles (10-15cm): DIO; PEG; FGC	Z30845	14	14.5	0.5	0.0026	ALS_ST44		Sample comprises approx half of the OVB material recovered in this sample.
14.50	30.63	<b>(FGC) Felsic Gneiss Conglomerate, ( )</b> Conglomerate hosting 30% cm scale elongate clasts. Polymictic. Matrix supported: equigranular; fine grained; biot-rich with lesser dissem amp; mm scale. 1% qz veins; mostly concordant; <5cm; hosting trace sulfs Py>Po; planar to moderately deformed. No signif alt. 3% garn; subhedral; mm scale <5mm; dissem. Minor coarse Py on low angle open frac.	C67801	14.5	15	0.5	0.014	AGAT_FAICP		Random selection of HQ pieces. Sample comprises approx half of the bedrock material recovered in this sample.
			C67802	15	16	1	0.005	AGAT_FAICP		
			C67803	16	17	1	0.004	AGAT_FAICP		
			C67804	17	18	1	0.013	AGAT_FAICP		
			C67805	18	19	1	0.005	AGAT_FAICP		
			C67807	19	20	1	0.033	AGAT_FAICP		
			C67815	25	26	1	0.006	AGAT_FAICP		
			C67816	26	27	1	0.003	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			C67817	27	28	1	0.005	AGAT_FAICP		
			C67819	28	29	1	0.004	AGAT_FAICP		
			C67820	29	30	1	0.005	AGAT_FAICP		
			C67821	30	30.63	0.63	0.007	AGAT_FAICP		
			C67808	20	21	1	0.007	AGAT_FAICP		
			C67809	21	21.5	0.5	0.009	AGAT_FAICP		
			C67810	21.5	22	0.5	0.009	AGAT_FAICP		
			C67811	22	23	1	0.004	AGAT_FAICP		
			C67813	23	24	1	0.003	AGAT_FAICP		
			C67814	24	25	1	0.008	AGAT_FAICP		
<b>30.63</b>	<b>33.80</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( FGSBI) FGS (10-29% BI) above or proximal to gold zone</b>	C67822	30.63	31	0.37	0.004	AGAT_FAICP		
			C67823	31	32	1	0.004	AGAT_FAICP		
			C67824	32	33	1	0.004	AGAT_FAICP		
			C67825	33	33.8	0.8	0.003	AGAT_FAICP		
<b>33.80</b>	<b>37.50</b>	<b>( FGC) Felsic Gneiss Conglomerate, ( )</b>	C67827	33.8	34.5	0.7	0.007	AGAT_FAICP		
			C67828	34.5	35	0.5	0.006	AGAT_FAICP		
			C67829	35	36	1	0.112	AGAT_FAICP		
			C67830	36	37	1	0.082	AGAT_FAICP		
			C67831	37	37.5	0.5	0.012	AGAT_FAICP		

**Hole ID :** SN19-00002

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 42  
 Drill Start : 7-Sep-2019  
 Drill Completed : 9-Sep-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335535  
 Northing : 5304607  
 Elevation : 425  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Alex.Jibb  
 Logged By 2 :  
 Log Start : 12-Sep-2019  
 Log Completed : 14-Sep-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Two OB samples taken (1 soil; 1 till) with IDs Z30846 and Z30847; second sample composed of fg clays and basal tills; larger boulders in second sample dominantly FGSMU lithology; MUSC and SILL rich FGS at top of hole grading into a banded to weakly conglomeratic FGS showing mod-strong silicification and sericitization; variable trace-to-1% PY min dissem

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	17.00	(OB) Overburden, ( ) OB								
17.00	18.00	(OB) Overburden, ( ) Two overburden samples taken; first sample (Z30846) from 17.0-17.5m composed of 1-5mm poorly sorted angular to rounded sand/pabbles with few larger 2-10cm boulders dominantly of FGS and PEG lithology; second sample (Z30847) taken from 17.5-18.0m composed of clays and basal tills with few cm-scale boulders dominantly of FGSMU lithology	Z30846	17	17.5	0.5	0.0105	ALS_ST44		Apparent road-bed type fill with mg 1-5mm poorly sorted rounded to angular sand and larger 2-10cm boulders/clasts composed of FGSMU and PEG lithologies dominantly
			Z30847	17.5	18	0.5	0.0233	ALS_ST44		CG (boulders) to vfg clay-like basal till
18.00	27.88	(FGS) Felsic Gneiss Sedimentary, ( FGSMU ) Muscovite-rich FGS Grey to dark grey; fmg; moderate silicification; 5-7% fmg dissem to patchy MUSC define unit identifier; variable silliminate and subrounded to angular PF throughout 2-3% PF and 1-2%	C67833	18	19	1	0.078	AGAT_FAICP		
			C67834	19	20	1	0.039	AGAT_FAICP		
			C67835	20	21	1	0.003	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
SILL; weak foliation poorly developed; variable SER alteration throughout with lcl moderate PAT POT alteration; few melt-textured PEGQG veinlets hosting minor sulphide mineralization lclly; overall 0.5% PY 0.25% PO; gradational/inferred lower contact with banded/conglomeratic FGS/FGC unit			C67836	21	21.5	0.5	0.003	AGAT_FAICP		
			C67837	21.5	22	0.5	0.002	AGAT_FAICP		
			C67839	22	23	1	0.008	AGAT_FAICP		
			C67840	23	24	1	0.006	AGAT_FAICP		
			C67841	24	25	1	0.008	AGAT_FAICP		
			C67842	25	26	1	0.007	AGAT_FAICP		
			C67843	26	26.4	0.4	0.021	AGAT_FAICP		
			C67844	26.4	27	0.6	0.01	AGAT_FAICP		
			C67845	27	27.88	0.88	0.004	AGAT_FAICP		
<b>27.88</b>	<b>38.44</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	C67847	27.88	29	1.12	0.015	AGAT_FAICP		
Beige to SER-brown to bleached olive-green; fmg; strong pervasive silicification/siliceous nature to interval with moderate-strong to lclly intense PER SER alt; weak-moderately lclly conglomeratic defined by pinching out of bands of AMP and QZ-CB veinlets stretched up to 10:1 aspect ratios; minor CL veinlets cut unit irregularly at random intervals; strong SER alt (replacement/bleaching) gtom 32.5-33.5m and again from 36-37.6m; variable background MUSC present 1-2% overall; 1-2% PY and 1% PO min throughout lclly vein/stringer hosted; diffuse lower contact with melt-textured PEG			C67848	29	30	1	0.01	AGAT_FAICP		
			C67849	30	31	1	0.007	AGAT_FAICP		
			C67850	31	32	1	0.006	AGAT_FAICP		
			C67851	32	33	1	0.006	AGAT_FAICP		
			C67853	33	34	1	0.007	AGAT_FAICP		
			C67854	34	35	1	0.008	AGAT_FAICP		
			C67855	35	36	1	0.006	AGAT_FAICP		
			C67856	36	37	1	0.003	AGAT_FAICP		
			C67857	37	37.9	0.9	0.004	AGAT_FAICP		
			C67859	37.9	38.44	0.54	0.01	AGAT_FAICP		
<b>38.44</b>	<b>38.89</b>	<b>( PEG) Pegmatite, ( PEGGR ) Granitic Pegmatite (&lt;50% quartz)</b>	C67860	38.44	38.89	0.45	0.004	AGAT_FAICP		
Grey to white; fmg; melt-textured defined by lack of grain boundaries between PF and QZ grains; no sig min; minor inclusions of BIO 2-3% overall; sharp lower contact										
<b>38.89</b>	<b>39.94</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	C67861	38.89	39.94	1.05	0.003	AGAT_FAICP		
Grey; fmg; siliceous; moderately silicified and serecitized; weak RIE alt towards lower contact with UMD-LAMPD; couple cm-scale QZ-CB stringers hosting minor (trace overall) PY min; sharp lower contact with UMD-LAMPD										
<b>39.94</b>	<b>41.68</b>	<b>( UMD) UMLAMP Dike, ( )</b>	C67862	39.94	41	1.06	0.002	AGAT_FAICP		
Dark grey; fmg; no sig min or alt; sharp upper and lower contacts										
			C67863	41	41.68	0.68	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments	
<b>41.68</b>	<b>42.00</b>	<b>( FGS) Felsic Gneiss Sedimentary, ( )</b>	C67864	41.68	42	0.32	0.004	AGAT_FAICP		EOH=42m	
		Dark grey; fcg; mod silicified and weak RIE alt; inclusions of subrounded/fractured green CPX makes this unit possible AMP (no identifier); no sig min; EOH=42m									

**Hole ID : SN19-00003**

**Project : Borden\_N**

Drilling Details :

Azimuth :  
 Dip :  
 Length : 35  
 Drill Start : 10-Sep-2019  
 Drill Completed : 11-Sep-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335499  
 Northing : 5304971  
 Elevation : 433  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Alex.Jibb  
 Logged By 2 :  
 Log Start : 16-Sep-2019  
 Log Completed : 16-Sep-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00003 was drilled to 35.5 metres according to applicable Major time sheets but only 35.0 metres of NQ core was recovered. Therefore the discrepancy of 0.5 metres of core is considered "Lost".

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>15.50</b>	<b>(OB) Overburden, ( )</b>	Z30848	14.75	15.13	0.38	0.0022	ALS_ST44		Till sample composed of cg poorly sorted sands and clays approx. 80% sand 20% clay
			Z30849	15.13	15.5	0.37	0.0011	ALS_ST44		OVB sample composed of about 50% clays and 50% cg poorly sorted sands with subrounded to rounded grain shapes; includes bulk of basal till captured in this sample
<b>15.50</b>	<b>19.56</b>	<b>(AMP) Amphibolite, (AMPFW) Footwall Amphibolite</b>	C67883	15.5	17	1.5	0.005	AGAT_FAICP		Green to greyish-green to dark grey; fcg; trace to lclly weak pervasive silicification; weak patchy RIE; weak wispy SER alt; moderately porphyroblastic defined by 7-8% fmg to lclly CG GRT; lclly showing stretching parallel to weak-moderately defined foliation measured at ~50dtca; poor RQD for whole of interval ~20-30%; no sig min; sharp lower contact with QZV measured at a51 dtca (no ori lines)
			C67884	17	18.5	1.5	0.004	AGAT_FAICP		
			C67885	18.5	19.5	1	0.003	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>19.56</b>	<b>19.96</b>	<b>( QV ) Quartz Vein, ( QZV ) Quartz Vein Undifferentiated</b>	C67887	19.5	20	0.5	0.004	AGAT_FAICP		
<p>White; fmg; melt-textured with inclusions of uphole and downhole AMPFW with moderate RIE alteration in AMPFW unit; no sig min; very weak/trace BX texture towards lower contact with angular fragments of wall-rock included in vein material; lower contact sup-perp to core axis</p>										
<b>19.96</b>	<b>23.72</b>	<b>( AMP ) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>	C67888	20	21.5	1.5	0.006	AGAT_FAICP		
<p>Grey-green to dark green; fcg; weak CARB and SER alteration lclly defined; lcl boudinaging to QZ-CB stringers cutting core at random orientations/intervals; 5-7% POB GRT define overall texture with moderate foliation measured at a43dtca (no ori lines on core); GRT lclly elongated parallel to foliation plane; no sig min; sharp lower contact with UMD-LAMPD measured at a60dtca</p>										
			C67889	21.5	23	1.5	0.002	AGAT_FAICP		
			C67890	23	23.72	0.72	0.002	AGAT_FAICP		
<b>23.72</b>	<b>25.90</b>	<b>( UMD ) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke</b>	C67891	23.72	25	1.28	0.003	AGAT_FAICP		
<p>Dark brown; fcg; moderately-developed POR/amygdule texture throughout by subrounded to angular carbonate xenoliths/phenocrysts; no sig alteration or veining; no significant mineralization; sharp lower contact measured at ~60dtca</p>										
			C67893	25	25.9	0.9	0.004	AGAT_FAICP		
<b>25.90</b>	<b>27.81</b>	<b>( AMP ) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>	C67894	25.9	27	1.1	0.003	AGAT_FAICP		
<p>Grey-green to dark green; fcg; weak patchy SER and CARB alt; 4-5% mcg POB grt define overall texture with subsequent banding and foliation defined by compositional layering measured at ~55dtca; no significant mineralization; inferred lower contact due to presence of UMD cutting unit parallel to dip with 50% AMP 50% LAMP composing unit</p>										
			C67895	27	27.81	0.81	0.002	AGAT_FAICP		
<b>27.81</b>	<b>35.00</b>	<b>( AMP, UMD ) Amphibolite, UMLAMP Dike, ( AMPFW ) Footwall Amphibolite</b>	C67896	27.81	29	1.19	0.002	AGAT_FAICP		
<p>Split 50/50 interval composed of UMD-LAMPD and clotty-textured AMPFW; both units occupy one half of the core dominantly with lcl sections of pure UMD and pure AMPFW; lcl talcose-feel amidst RIE and CL alteration; mm-scale wispy QZ-CB stringers throughout (likely fracture-fill) parallel to core axis; POR/AMY texture in UMD same as uphole UMD with angular to subrounded mcg to vcg CB amygdules/phenocrysts; poor RQD towards end of interval (10-20%); no sig min; EOH=35m</p>										
			C67897	29	30.5	1.5	0.003	AGAT_FAICP		
			C67899	30.5	32	1.5	0.002	AGAT_FAICP		
			C67900	32	33.5	1.5	0.004	AGAT_FAICP		
			C67901	33.5	35	1.5	0.003	AGAT_FAICP		EOH=35m

**Hole ID :** SN19-00004

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 33  
 Drill Start : 12-Sep-2019  
 Drill Completed : 13-Sep-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335344  
 Northing : 5305093  
 Elevation : 436  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Alex.Jibb  
 Logged By 2 :  
 Log Start : 16-Sep-2019  
 Log Completed : 16-Sep-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole was intercepted Garnet bearing AMP and a small LAMP dyke.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	12.50	(OB) Overburden, ( )								
12.50	13.00	(OB) Overburden, ( ) OB sample taken from 12.5-13.0m composed of cg sand and large cm-dm scale boulders of FGS/AMP/PEG lithology; one bedrock sample taken and sent to AGAT while other half of casing sample kept in sample archive	C67865	12.5	13	0.5	0.002	AGAT_FAICP		OB sample; interface composed of cg boulders and sands; no soil profile sent to ALS; one AGAT sample only
13.00	15.40	(UMD) UMLAMP Dike, ( ) Dark grey; fmg; broken/bladed core composed about 15-20% of interval; minor fragments of AMP included amongst broken core fragments; no sig alteration/veining/min; sharp lower contct with garnetiferous AMP measured at a20	C67867 C67868	13 14.5	14.5 16	1.5 1.5	0.003 0.002	AGAT_FAICP AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>15.40</b>	<b>33.00</b>	<b>( AMP ) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>	C67869	16	17.5	1.5	0.002	AGAT_FAICP		
		Green to dark green; fcg; weak lcl silicification and weak patchy to wispy SER alteration defined by wispy QZ-CB stringers; weak patchy CB alteration lclly hosted with light-green CPX and GRT/AMP mineral assemblages; minor CL-dominant veinlet from 31.68-31.72; moderately GRT POB defined by 4-5% fcg GRT lclly showing elongation parallel to foliation plane; moderate foliation defined by AMP and BIO minerals measured lclly at ~45dtca; no sig min; EOH=33m	C67870	17.5	19	1.5	0.003	AGAT_FAICP		
			C67871	19	20.5	1.5	0.002	AGAT_FAICP		
			C67873	20.5	22	1.5	0.002	AGAT_FAICP		
			C67874	22	23.5	1.5	0.002	AGAT_FAICP		
			C67875	23.5	25	1.5	0.002	AGAT_FAICP		
			C67876	25	26.5	1.5	0.002	AGAT_FAICP		
			C67877	26.5	28	1.5	0.002	AGAT_FAICP		
			C67879	28	29.5	1.5	0.002	AGAT_FAICP		
			C67880	29.5	31	1.5	0.002	AGAT_FAICP		
			C67881	31	32	1	0.002	AGAT_FAICP		
		C67882	32	33	1	0.004	AGAT_FAICP		EOH=33m	



**Hole ID : SN19-00005**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 45.7  
 Drill Start : 13-Sep-2019  
 Drill Completed : 4-Oct-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335198  
 Northing : 5305208  
 Elevation : 438  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 21-Oct-2019  
 Log Completed : 22-Oct-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00005 was drilled to 46.2 metres according to applicable Major time sheets but only 45.7 metres of NQ core was recovered. Therefore the discrepancy of 0.5 metres of core is considered "Lost".

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>26.20</b>	<b>( OB ) Overburden, ( )</b>	Z39736	25.7	25.95	0.25	0.0013	ALS_ST44		OB sample 1 of 2 for SN19-00005. Sample is actually 25.7-25.95 (25 cms)
		Inmature fines dominated overburden. Large clasts of amphibolite and k-spar granitoids. Fine matrix is of assorted k-spar felsics and amphibolites and ranges from sub euhedral to sub rounded . Two samples taken from OB and one duplicate sample. Both are 25cm samples. A. 25.7-25.95m. B. 25.95-26.20m. C. Duplicate of 25.95-26.20m.	Z39737	25.95	26.2	0.25	0.0012	ALS_ST44		OB sample 2 of 2 for SN19-00005. Sample is actually 25.95 - 26.20m (25 cms)
<b>26.20</b>	<b>45.70</b>	<b>( AMP ) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>	D72584	26.2	27.1	0.9	0.002	AGAT_FAICP		
		Amp 50 Cpx 20 Bio 12 Gnt 6. Moderate to strong foliation fabric throughtout unit. Large fine grained aggregates of amphibole and cpx pods throughout. Garnet is fine to medium grained and often found in patches. Moderate sericitic/chloritic alteration via dissemination/bands/stringers. Short QV2 vein from 36.80-26.90ms but is barren. Sulphide content is moderately low with pyrrhotite as the dominant variety Po 75 / Py 25 with some medium sized examples present. EOH=45.70m	D72585	27.1	28.1	1	0.001	AGAT_FAICP		
			D72587	28.1	29.2	1.1	0.002	AGAT_FAICP		
			D72588	29.2	30.43	1.23	0.002	AGAT_FAICP		
			D72589	30.43	31.1	0.67	0.002	AGAT_FAICP		
			D72590	31.1	32.45	1.35	0.003	AGAT_FAICP		
			D72599	38.2	39.47	1.27	0.002	AGAT_FAICP		
			D72600	39.47	40.7	1.23	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72601	40.7	42.05	1.35	0.002	AGAT_FAICP		
			D72602	42.05	43.55	1.5	0.002	AGAT_FAICP		
			D72603	43.55	44.9	1.35	0.002	AGAT_FAICP		
			D72604	44.9	45.7	0.8	0.009	AGAT_FAICP		EOH=45.70m
			D72591	32.45	33	0.55	0.002	AGAT_FAICP		
			D72593	33	34.35	1.35	0.002	AGAT_FAICP		
			D72594	34.35	35.73	1.38	0.003	AGAT_FAICP		
			D72595	35.73	36.6	0.87	0.003	AGAT_FAICP		
			D72596	36.6	37.02	0.42	0.003	AGAT_FAICP		
			D72597	37.02	38.2	1.18	0.004	AGAT_FAICP		

**Hole ID :** SN19-00006

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 35.5  
 Drill Start : 15-Sep-2019  
 Drill Completed : 21-Sep-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335243  
 Northing : 5305313  
 Elevation : 434  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 19-Oct-2019  
 Log Completed : 19-Oct-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole intercepted AMP and FW AMP like rock.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	15.50	(OB) Overburden, ( )	Z39734	14.9	15.5	0.6	0.002	AGAT_FAICP		Sample is mostly PW size core from sonic casing plus small boulders. Cutters will 1/4 the sample
15.50	19.30	(AMP) Amphibolite, ( )	D62420	15.5	16.9	1.4	0.03	AGAT_FAICP		First Bedrock Sample for SN19-00006
			D62421	16.9	18.36	1.46	0.003	AGAT_FAICP		
			D62422	18.36	19.3	0.94	0.002	AGAT_FAICP		
19.30	21.50	(UMD) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke	D62423	19.3	20.7	1.4	0.003	AGAT_FAICP		Upper contact not parallel to foliation fabric. UMD contains fine to medium grained carbonate amygdules and xenoliths.
			D62424	20.7	21.5	0.8	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>21.50</b>	<b>30.67</b>	<b>( AMP) Amphibolite, ( )</b>	D62425	21.5	22.1	0.6	0.002	AGAT_FAICP		
<p>AMP 40 Cpx 30 Feld/Qtz Background content 20 Bio 8. Amphibolite contains fine to medium grained cpx porphyroclasts throughout with weak to moderate felsic background which is labeled as Feld in mineral tab. Numerous Qtz/Carb stringers crosscut the unit at various angles to core axis. Weak to moderate sericitic alteration via halos and stringers. Sulphide content overall is insignificant. Foliation fabric is moderate to strong throughout. Strain intensity shows a sharp increase at 22.00-24.00 ms as well as folding.</p>			D62427	22.1	23.35	1.25	0.002	AGAT_FAICP		
			D62428	23.35	24.5	1.15	0.002	AGAT_FAICP		
			D62429	24.5	25.9	1.4	0.002	AGAT_FAICP		
			D62430	25.9	27.25	1.35	0.002	AGAT_FAICP		
			D62431	27.25	28.67	1.42	0.015	AGAT_FAICP		
			D62433	28.67	29.5	0.83	0.002	AGAT_FAICP		
			D62434	29.5	30.67	1.17	0.003	AGAT_FAICP		
<b>30.67</b>	<b>35.50</b>	<b>( AMP) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>	D62435	30.67	32	1.33	0.002	AGAT_FAICP		
<p>Amphibolite has AMPFW like characteristics minus garnet content. Fine grained large aggregates of amphibole and cpx throughout. Moderate to strong foliation fabric throughout unit. Moderate sericitic alteration via bands at moderate angle to core axis. Sulphide content is low but both pyrrhotite and pyrite are present in similar quantities Po 70 / Py 30. Moderate strain in folded areas. EOH=35.5m</p>			D62436	32	33.5	1.5	0.003	AGAT_FAICP		
			D62437	33.5	33.98	0.48	0.002	AGAT_FAICP		
			D62439	33.98	34.87	0.89	0.003	AGAT_FAICP		
			D62440	34.87	35.5	0.63	0.005	AGAT_FAICP		EOH=35.5m

**Hole ID : SN19-00007**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 37.7  
 Drill Start : 16-Sep-2019  
 Drill Completed : 29-Sep-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335333  
 Northing : 5305342  
 Elevation : 435  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 21-Sep-2019  
 Log Completed : 21-Sep-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

18 metres of casing. Bedrock tagged at 17.7ms Hole intercepted lightly altered AMP.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	17.70	(OB) Overburden, ( )	Z39733	17	17.7	0.7	0.0009	ALS_ST44		Only one Overburden ALS sample for SN19-00007
<p>Overburden is semi mature with clasts ranging from sub angular to sub rounded. Majority of clasts are amphibolite but high potassic altered felsics are also present. Finer matrix is well drained sandy till. One sample taken for OB/ALS - Z39733 17-17.7m.</p>										
17.70	35.88	(AMP) Amphibolite, ( )	D62401	17.7	19	1.3	0.011	AGAT_FAICP		
<p>Large aggregates of fine grained cpx and amphibole throughout revealing a very similar appearance to AMPFW. Moderate amount of red iron rich garnets ranging from fine - medium grain. Low sulphide content with both pyrite and pyrrhotite present with the latter as the dominant constituent Po 65 / Py 35 also similar to AMPFW. Minor/thin QV2 veins throughout but with no increase in sulphide content. Numerous stringers of quartz/carbonate material. Thin lamprophyre dykes crosscut the unit throughout. Foliation dips at 42 degrees. Several boudinage throughout with necks trending with foliation fabric.</p>										
			D62402	19	20.5	1.5	0.004	AGAT_FAICP		
			D62403	20.5	22	1.5	0.006	AGAT_FAICP		
			D62404	22	23.5	1.5	0.004	AGAT_FAICP		
			D62405	23.5	25	1.5	0.003	AGAT_FAICP		
			D62407	25	26.5	1.5	0.002	AGAT_FAICP		
			D62415	33.88	34.5	0.62	0.003	AGAT_FAICP		
			D62416	34.5	35.88	1.38	0.003	AGAT_FAICP		
			D62408	26.5	27.3	0.8	0.003	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D62409	27.3	28.1	0.8	0.003	AGAT_FAICP		
			D62410	28.1	29.6	1.5	0.002	AGAT_FAICP		
			D62411	29.6	31.1	1.5	0.003	AGAT_FAICP		
			D62413	31.1	32.6	1.5	0.003	AGAT_FAICP		
			D62414	32.6	33.88	1.28	0.006	AGAT_FAICP		
<b>35.88</b>	<b>37.05</b>	<b>( UMD) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke</b>	D62417	35.88	37.05	1.17	0.003	AGAT_FAICP		
		Short lamprophyre with fine grained amygdules containing carbonate material.								
<b>37.05</b>	<b>37.70</b>	<b>( AMP) Amphibolite, ( )</b>	D62419	37.05	37.7	0.65	0.006	AGAT_FAICP		EOH
		Amphibolite contains numerous stringers of quartz/carbonate material as well as lamprophyric material. Low sulphide content overall with both pyrite and pyrrhotite present. Moderate potassic alteration via stringers. Moderate cpx content. 37.7=EOH								

**Hole ID : SN19-00008**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 40  
 Drill Start : 25-Sep-2019  
 Drill Completed : 4-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335425  
 Northing : 5305299  
 Elevation : 437  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : William.Gerber  
 Logged By 2 :  
 Log Start : 3-Nov-2019  
 Log Completed : 4-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00008 was drilled to 41.6 metres according to applicable Major time sheets but only 40.0 metres of NQ core was recovered. Therefore the discrepancy of 1.6 metres of core is considered "Lost".

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	21.60	(OB) Overburden, ( )	Z39745	20.7	21.6	0.9	0.0009	ALS_ST44		Only overburden sample retrieved; sandy till with kaki green clay.
21.60	35.15	(AMP) Amphibolite, (AMPFW) Footwall Amphibolite	D72735	21.6	23	1.4	0.024	AGAT_FAICP		Amphibolite looks slightly like footwall amphibolite; dark green; fg; 3% Gt porphyroblasts (fg-cg) and locally as small aggregates in Cpx-rich bands and masses. Gt from top to 30.6m only. Weakly to moderately foliated; moderately fractured from top to 28.15m (proximity to overburden; no fault zone); some fractures are QzCb coated. Common medium green (Cpx) and grey (Fp; Cb) masses and aggregates as possible pillow selvages. Few late Cb veinlets crossing S1 with pale green Ser-altered haloes. Tr. Po+Py+Cpy as diss. blebs.
			D72736	23	24	1	0.006	AGAT_FAICP		
			D72737	24	25	1	0.005	AGAT_FAICP		
			D72739	25	26	1	0.003	AGAT_FAICP		
			D72740	26	27	1	0.003	AGAT_FAICP		
			D72741	27	28	1	0.003	AGAT_FAICP		
			D72749	34	35	1	0.003	AGAT_FAICP		
			D72742	28	29	1	0.002	AGAT_FAICP		
			D72743	29	30	1	0.002	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72744	30	31	1	0.004	AGAT_FAICP		
			D72745	31	32	1	0.004	AGAT_FAICP		
			D72747	32	33	1	0.003	AGAT_FAICP		
			D72748	33	34	1	0.002	AGAT_FAICP		
<b>35.15</b>	<b>35.33</b>	<b>( UMD ) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke</b>	D72750	35	35.33	0.33	0.003	AGAT_FAICP		Small LAMP dykelet oblique to S1; pale green; bleached; non-magnetic. Few Cb veinlets throughout.
<b>35.33</b>	<b>40.00</b>	<b>( AMP ) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>	D72751	35.33	36	0.67	0.003	AGAT_FAICP		Continuity of amphibolite above UMD. Looks slightly like footwall amphibolite; dark green; fg; tr. Gt; weakly to moderately foliated; common medium green (Cpx) and grey (Fp; Cb) masses and aggregates as possible pillow selvages. Few late Cb veinlets crossing S1. Tr. Po+Py. EOH=40m
			D72753	36	37	1	0.003	AGAT_FAICP		
			D72754	37	38	1	0.001	AGAT_FAICP		
			D72755	38	39	1	0.0005	AGAT_FAICP		
			D72756	39	40	1	0.0005	AGAT_FAICP		



**Hole ID : SN19-00009**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 43.8  
 Drill Start : 26-Sep-2019  
 Drill Completed : 28-Sep-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335394  
 Northing : 5305411  
 Elevation : 433  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Daniel.Rafuse  
 Logged By 2 :  
 Log Start : 20-Oct-2019  
 Log Completed : 20-Oct-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole intercepted FGS and AMP.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>23.80</b>	<b>( OB ) Overburden, ( )</b>								
Overburden contains mainly amphibolites and some potassic felsic boulders. Fine grained material is immature ranging from subrounded to subeuhedral clasts of both amphibolite and potassic and contains a sandy silty texture. Till material has been pulverized by sonic head therefore true quality of till is not determinable. Two samples taken. One bedrock = AGAY and one OB = ALS										
			D72559	23.2	23.8	0.6	0.004	AGAT_FAICP		Second sample is a boulders at bedrock interface. AGAT
			Z39735	22.8	23.2	0.4	0.0009	ALS_ST44		First sample is a till sample for ALS
<b>23.80</b>	<b>30.60</b>	<b>( AMP ) Amphibolite, ( AMPFW ) Footwall Amphibolite</b>								
Amp 45 Cpx 30 Bio 12 Grt 5. Unit contains bands/pods of amphibole/cpx aggregates as well as patches of red almandine garnets. Moderate seritici alteration via bands at moderate angle to core axis crosscut the unit throuhout. Sulphide content ranges from low to moderate with pyrrhotite as the main constituent Po 75 / Py 25. Thin QV2 veins crosscut but no increase in sulphide content.										
			D72560	23.8	24.97	1.17	0.01	AGAT_FAICP		First Core Sample
			D72561	24.97	25.93	0.96	0.004	AGAT_FAICP		
			D72562	25.93	27.26	1.33	0.003	AGAT_FAICP		
			D72563	27.26	28.03	0.77	0.004	AGAT_FAICP		
			D72564	28.03	29.02	0.99	0.005	AGAT_FAICP		
			D72565	29.02	29.8	0.78	0.003	AGAT_FAICP		
			D72567	29.8	30.6	0.8	0.004	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
30.60	31.20	( UMD) UMLAMP Dike, ( LAMPD ) UMD - Lamprophyre Dyke UMD-Lamp with fine-very fine carbonate amygdules and xenoliths.	D72568	30.6	31.2	0.6	0.002	AGAT_FAICP		
31.20	33.10	( AMP) Amphibolite, ( AMPFW ) Footwall Amphibolite Amp 45 Cpx 30 Bio 12 Grt 5. Unit contains bands/pods of amphibole/cpx aggregates as well as patches of red almandine garnets. Moderate to strong sericitic alteration via bands at moderate angle to core axis crosscut the unit througout. Sulphide content ranges from low to moderate with pyrrhotite as the main constiuent Po 75 / Py 25.	D72569 D72570	31.2 32.26	32.26 33.1	1.06 0.84	0.004 0.005	AGAT_FAICP AGAT_FAICP		
33.10	34.23	( FGS) Felsic Gneiss Sedimentary, ( ) FGS contains moderate to intense sericitic alteration via stringers and dissemination. Low ow sulphide content with pyrite and pyrrhotite trending with foliation fabric. Small QV2 but is barren. Weak to moderate foliation fabric througout. Weak background amphibole content but observable.	D72571	33.1	34.23	1.13	0.007	AGAT_FAICP		
34.23	35.80	( AMP) Amphibolite, ( AMPFW ) Footwall Amphibolite Amp 45 Cpx 30 Bio 12 Grt 5. Unit contains bands/pods of amphibole/cpx aggregates as well as patches of red almandine garnets. Moderate to strong sericitic alteration via bands at moderate angle to core axis crosscut the unit througout. Sulphide content ranges from low to moderate with pyrrhotite as the main constiuent Po 75 / Py 25. Thin	D72573 D72574	34.23 35.18	35.18 35.8	0.95 0.62	0.01 0.011	AGAT_FAICP AGAT_FAICP		
35.80	36.50	( FGS) Felsic Gneiss Sedimentary, ( ) Short FGS with low sulphide content with pyrite and pyrrhotite present in similar quantities Po 50 / Py 50. Weak to moderate foliation fabric throughout. Weak sericitic alteration via dissemination.	D72575	35.8	36.5	0.7	0.015	AGAT_FAICP		
36.50	43.80	( AMP) Amphibolite, ( AMPFW ) Footwall Amphibolite Amp 45 Cpx 30 Bio 12 Grt 5. Unit contains bands/pods of amphibole/cpx aggregates as well as patches of red almandine garnets. Moderate seritici alteration via bands at moderate angle to core axis crosscut the unit througout. Sulphide content ranges from low to moderate with pyrrhotite as the main constiuent Po 75 / Py 25. Thin QV2 veins crosscut but no increase in sulphide content. EOH=43.8m	D72576 D72577 D72579 D72580 D72581 D72582 D72583	36.5 37.8 38.57 39.24 40.25 41.52 42.68	37.8 38.57 39.24 40.25 41.52 42.68 43.8	1.3 0.77 0.67 1.01 1.27 1.16 1.12	0.011 0.007 0.017 0.008 0.004 0.006 0.005	AGAT_FAICP AGAT_FAICP AGAT_FAICP AGAT_FAICP AGAT_FAICP AGAT_FAICP AGAT_FAICP		EOH=43.8m

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
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**Hole ID :** SN19-00010A

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 44  
 Drill Start : 30-Sep-2019  
 Drill Completed : 7-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335405  
 Northing : 5305502  
 Elevation : 432  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Abandoned. 135ft/44ms of casing. Fourteen lengths of casing Stuck 14 X 1.5m = 21ms; left in hole; capped and flagged. Two locations: original loc abandoned at 24m in overburden; could not continue ; no bedrock. Second loc 3m from original; abandoned at 44m in overburden; could not continue; no bedrock.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	44.00	(OB) Overburden, ( ) Minimum OB depth								

**Hole ID :** SN19-00011A

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 40  
 Drill Start : 8-Oct-2019  
 Drill Completed : 10-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335446  
 Northing : 5305586  
 Elevation : 433  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : Brad.Clarke  
 Logged By 2 :  
 Log Start : 15-Nov-2019  
 Log Completed : 15-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Abandoned due to casing issues final depth 40ms.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	40.00	(OB) Overburden, ( )								Minimum OB depth 40m; hole abandoned in OB due to tight casing

**Hole ID :** SN19-00012A

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 38  
 Drill Start : 10-Oct-2019  
 Drill Completed : 13-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335546  
 Northing : 5305629  
 Elevation : 432  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location :

Logging Details :

Logged By : Brad.Clarke  
 Logged By 2 :  
 Log Start : 15-Nov-2019  
 Log Completed : 15-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Abandoned. Issues advancing casing. Casing length 38ms

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	38.00	(OB) Overburden, ( )								Minimum OB depth 38m; hole abandoned in OB due to tight casing

**Hole ID :** SN19-00013A  
**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 26.6  
 Drill Start : 12-Oct-2019  
 Drill Completed : 14-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335824  
 Northing : 5305725  
 Elevation : 434  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location :

Logging Details :

Logged By : Brad.Clarke  
 Logged By 2 :  
 Log Start : 15-Nov-2019  
 Log Completed : 15-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole abandoned after 26.6m of casing. Move to RC-105

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	26.60	(OB) Overburden, ( )								Minimum OB depth 26.6m; hole abandoned in OB due to tight casing

**Hole ID :** SN19-00014A

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 32  
 Drill Start : 14-Oct-2019  
 Drill Completed : 19-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 335915  
 Northing : 5305724  
 Elevation : 436  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location :

Logging Details :

Logged By : Brad.Clarke  
 Logged By 2 :  
 Log Start : 15-Nov-2019  
 Log Completed : 15-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole abandoned after 32ms of casing with no bedrock contact. Moving to RC-0081 over magnetic high SW of current position.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	32.00	(OB) Overburden, ( )								Minimum OB depth 32m; hole abandoned in OB due to tight casing



**Hole ID :** SN19-00015A

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 32  
 Drill Start : 19-Oct-2019  
 Drill Completed : 20-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 334532  
 Northing : 5304486  
 Elevation : 441  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location :

Logging Details :

Logged By : Brad.Clarke  
 Logged By 2 :  
 Log Start : 15-Nov-2019  
 Log Completed : 15-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole abandoned after 32ms of casing with no bedrock contact. Moving to RC-0077 at end of drill line

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	32.00	(OB) Overburden, ( )	Z39741	31	32	1	0.0007	ALS_ST44		Sandy till in unique OB sample bag retrieved from drillers. Hole abandoned before reaching bedrock; however clay present in lower part of sample; suggesting proximity of bedrock.
Minimum OB depth 32m; hole abandoned in OB due to tight casing										

**Hole ID : SN19-00016**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 34.76  
 Drill Start : 21-Oct-2019  
 Drill Completed : 22-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 334211  
 Northing : 5304284  
 Elevation : 437  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : William.Gerber  
 Logged By 2 :  
 Log Start : 31-Oct-2019  
 Log Completed : 31-Oct-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00016 was drilled to 35.0 metres according to applicable Major time sheets but only 34.76 metres of NQ core was recovered. Therefore the discrepancy of 0.24 metres of core is considered "Lost".

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>15.57</b>	<b>( OB) Overburden, ( )</b>								
		15m PQ casing. Upper part is made of round granitoid boulders (glacial overburden); lower part of AMP (similar to bedrock below).	D72605	14	14.3	0.3	0.007	AGAT_FAICP		Granitoid boulders from OB.
			D72607	14.3	15.57	1.27	0.013	AGAT_FAICP		Amphibolite boulders similar to bedrock below so probably bedrock.
<b>15.57</b>	<b>34.76</b>	<b>( AMP) Amphibolite, ( )</b>								
		Amphibolite; dark green; moderately foliated; fg; compositional layering as common medium green Amp+Fs+/-Cpx+/-Cb bands and thin masses // S1 (locally boudinaged and tightly F1-folded); rare Gt (fg-mg POB); rare Bt (mm thick bands // S1); some late QzCb veinlets (crossing S1) with thin Ser-altered haloes. From 30m depth; some small Qz veins and veinlets (QV2) <11cm thick; // S1; locally tightly F1-folded (AP1//S1). Thin grinded level at 21.6m (mechanical). EOH=34.76m.	D72608	15.57	16.57	1	0.007	AGAT_FAICP		
			D72609	16.57	17.57	1	0.026	AGAT_FAICP		
			D72610	17.57	18.57	1	0.006	AGAT_FAICP		
			D72611	18.57	19.57	1	0.008	AGAT_FAICP		
			D72613	19.57	20.57	1	0.008	AGAT_FAICP		
			D72614	20.57	21.57	1	0.006	AGAT_FAICP		
			D72629	33.27	34.27	1	0.008	AGAT_FAICP		
			D72630	34.27	34.76	0.49	0.005	AGAT_FAICP		
			D72622	27.57	28.57	1	0.005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72623	28.57	29.57	1	0.007	AGAT_FAICP		
			D72624	29.57	30.57	1	0.005	AGAT_FAICP		
			D72625	30.57	31.57	1	0.11	AGAT_FAICP		
			D72627	31.57	32.22	0.65	0.018	AGAT_FAICP		
			D72628	32.22	33.27	1.05	0.012	AGAT_FAICP		
			D72615	21.57	22.57	1	0.004	AGAT_FAICP		
			D72616	22.57	23.57	1	0.005	AGAT_FAICP		
			D72617	23.57	24.57	1	0.005	AGAT_FAICP		
			D72619	24.57	25.57	1	0.007	AGAT_FAICP		
			D72620	25.57	26.57	1	0.005	AGAT_FAICP		
			D72621	26.57	27.57	1	0.004	AGAT_FAICP		

**Hole ID : SN19-00017**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 33.82  
 Drill Start : 22-Oct-2019  
 Drill Completed : 23-Oct-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 334276  
 Northing : 5304318  
 Elevation : 438  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : William.Gerber  
 Logged By 2 :  
 Log Start : 1-Nov-2019  
 Log Completed : 1-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00003 was drilled to 34.0 metres according to applicable Major time sheets but only 33.82 metres of NQ core was recovered. Therefore the discrepancy of .18 metres of core is considered "Lost".

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
<b>0.00</b>	<b>13.75</b>	<b>( OB ) Overburden, ( )</b>	Z39739	13	13.45	0.45	0.0012	ALS_ST44		Sandy till
		14m of PQ casing. Sandy overburden down to 13.75m.	Z39740	13.45	13.75	0.3	0.0021	ALS_ST44		Transition sandy till overburden / bedrock interface. Grey; clay -rich material.
<b>13.75</b>	<b>28.47</b>	<b>( UM ) Ultramafic, ( )</b>	D72631	13.75	14.05	0.3	0.002	AGAT_FAICP		First bedrock UM sample.
		Ultramafic unit; upper 0.3m in OB bag as competent core included in bedrock. Dark green; blueish; relatively soft; slightly soapy (probably talc); strongly magnetic; moderately foliated; 70% medium green fg harder matrix (tremolite? +/- sericite?) with 30% common fg to cg dark blue softer minerals (serpentine?) as porphyroblasts; possible pseudomorphs (diamond shaped possible amphibole pseudomorphs?) and thin veinlets/bands // main foliation (locally with spaghetti/spider web texture). Some thin Cb veinlets; some slickensides with white slickenlines (talc? carbonates?). From 18.55 to 20m the unit is moderately to strongly fractured (rusty coated fractures); medium green; locally grinded (moderately faulted). Main foliation S1 is locally folded by F2 folds (open to tight; local crenulation; S1 often transposed // S2). F2 folds against lower contact with amphibolite. No visible sulphide.	D72633	14.05	15.05	1	0.002	AGAT_FAICP		
			D72634	15.05	16.05	1	0.001	AGAT_FAICP		
			D72635	16.05	17.05	1	0.033	AGAT_FAICP		
			D72636	17.05	18.05	1	0.001	AGAT_FAICP		
			D72637	18.05	18.55	0.5	0.002	AGAT_FAICP		
			D72645	24	25	1	0.001	AGAT_FAICP		
			D72647	25	26	1	0.003	AGAT_FAICP		
			D72648	26	27	1	0.0005	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72649	27	28.47	1.47	0.002	AGAT_FAICP		
			D72639	18.55	19.55	1	0.0005	AGAT_FAICP		
			D72640	19.55	20	0.45	0.0005	AGAT_FAICP		
			D72641	20	21	1	0.0005	AGAT_FAICP		
			D72642	21	22	1	0.0005	AGAT_FAICP		
			D72643	22	23	1	0.0005	AGAT_FAICP		
			D72644	23	24	1	0.0005	AGAT_FAICP		
<b>28.47</b>	<b>33.82</b>	<b>( AMP) Amphibolite, ( )</b>	D72650	28.47	29.5	1.03	0.0005	AGAT_FAICP		
		Amphibolite; dark green; medium green and brownish near upper contact (Bt-richer); non-magnetic; moderately foliated; Bt-rich bands // S1 from top to 29.9m (10% Bt) with common fractures // Bt-rich soft bands. Some Cpx+Fp+/-Gt rich bands are locally boudinaged and tightly folded (F1). Some thin Qz veinlets // S1. No visible sulphide. EOH = 33.82m.	D72651	29.5	29.9	0.4	0.162	AGAT_FAICP		
			D72653	29.9	30.9	1	0.004	AGAT_FAICP		
			D72654	30.9	31.9	1	0.004	AGAT_FAICP		
			D72655	31.9	32.9	1	0.008	AGAT_FAICP		
			D72656	32.9	33.82	0.92	0.005	AGAT_FAICP		

**Hole ID : SN19-00018**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 38.28  
 Drill Start : 24-Oct-2019  
 Drill Completed : 25-Oct-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 334372  
 Northing : 5304386  
 Elevation : 438  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : William.Gerber  
 Logged By 2 :  
 Log Start : 1-Nov-2019  
 Log Completed : 2-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00018 was drilled to 38.00 metres according to applicable Major time sheets but 38.28 metres of NQ core was recovered.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	17.70	(OB) Overburden, ( )	Z39742	17	17.7	0.7	0.0019	ALS_ST44		Overburden sample; sandy till with abundant round pebbles. No obvious clay-rich basal till above amphibolitic bedrock.
17.70	38.28	(AMP) Amphibolite, (AMPFW) Footwall Amphibolite	D72657	17.7	18	0.3	0.006	AGAT_FAICP		Amphibolitic bedrock fragments.
		Amphibolite looks like AMP-FW from deposit; dark green; fg; weakly to moderately foliated; non to weakly magnetic (tr. Mt and Po); common medium green Cpx+/-Fp+/-Gt masses and clots often irregular or // S0-S1 as probable pillow selvages; locally boudinaged. Local Qz+Fp+/-Gt+/-Po+/-Py+/-Cpy. From 19 to 24.3m the unit is more homogeneous with mg Gt porphyroblast and almost no Cpx-rich clots. Overall 3% mg-cg-vcg Gt porphyroblasts (orange/redish; poeciloblastic) and small masses // S0/S1; 0.5% Bt as fg diss. flakes // S1; overall tr. Po+Py+Cpy as diss. blebs often in Cpx-rich clots and boudin necks. Some thin white Qz veinlets (higher density from 31.2 to 31.46m where QzV2 folded (tight F1?) // S1. Few late Cb veinlets throughout. EOH = 38.28m.	D72659	18	19	1	0.005	AGAT_FAICP		
			D72660	19	20	1	0.054	AGAT_FAICP		
			D72661	20	21	1	0.045	AGAT_FAICP		
			D72662	21	22	1	0.003	AGAT_FAICP		
			D72663	22	23	1	0.004	AGAT_FAICP		
			D72679	34.5	35.5	1	0.002	AGAT_FAICP		
			D72680	35.5	36.5	1	0.003	AGAT_FAICP		
		D72681	36.5	37.5	1	0.005	AGAT_FAICP			

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72682	37.5	38.28	0.78	0.003	AGAT_FAICP		
			D72671	29	30	1	0.003	AGAT_FAICP		
			D72673	30	31.16	1.16	0.008	AGAT_FAICP		
			D72674	31.16	31.46	0.3	0.004	AGAT_FAICP		
			D72675	31.46	32.5	1.04	0.002	AGAT_FAICP		
			D72676	32.5	33.5	1	0.002	AGAT_FAICP		
			D72677	33.5	34.5	1	0.162	AGAT_FAICP		
			D72664	23	24	1	0.004	AGAT_FAICP		
			D72665	24	25	1	0.004	AGAT_FAICP		
			D72667	25	26	1	0.009	AGAT_FAICP		
			D72668	26	27	1	0.003	AGAT_FAICP		
			D72669	27	28	1	0.003	AGAT_FAICP		
			D72670	28	29	1	0.002	AGAT_FAICP		

**Hole ID : SN19-00019**

**Project : Borden\_N**

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 46.5  
 Drill Start : 26-Oct-2019  
 Drill Completed : 27-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 334467  
 Northing : 5304436  
 Elevation : 437  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : William.Gerber  
 Logged By 2 :  
 Log Start : 2-Nov-2019  
 Log Completed : 2-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole intercepted UM unit.

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	26.00	( OB ) Overburden, ( )	Z39743	25.5	26	0.5	0.0024	ALS_ST44		Unique sandy till sample retrieved from oberburden above UM. Material is a sandy till with kaki green clay; some AMP and granitoid round pebbles.
26.00	46.50	( UM ) Ultramafic, ( )	D72683	26	26.5	0.5	0.005	AGAT_FAICP		Half of NW core from casing taken for assay; part of bedrock UM.
		Ultramafic unit; similar to SN19-00017; upper 0.5m in OB bag as competent core included in bedrock. Dark green; blueish; moderately relatively soft; slightly soapy (chlorite and probable talc); moderately to strongly magnetic (not magnetic from 38.35 to 40.2m); moderately foliated; 70% medium green fg harder matrix (tremolite? +/- sericite?) with 30% common fg to cg dark blue softer minerals (serpentine?) as porphyroblasts and thin veinlets/bands // main foliation (locally with spaghetti/spider web texture); and locally as rims around grey masses. Some thin Cb veinlets; some slickensides with white slickenlines (talc? carbonates?). Bt-rich levels (also strongly foliated) from 39.57 to 40m where Bt-rich bands // S1 and at 33.3m (15cm wide). The unit is overall weakly fractured; with strongly fractured levels (38.4-38.8m; 41.1-43.25m including a grinded core and probable small fault gouge at 41.5m and 43m. No visible sulphide. Local thigh F1 folds affecting Qz veinlets (AP1//S1); moderate mineral lineation (Amp) on some S1 planes. EOH=46.5m.	D72684	26.5	27.5	1	0.002	AGAT_FAICP		
			D72685	27.5	28.5	1	0.002	AGAT_FAICP		
			D72687	28.5	29.5	1	0.002	AGAT_FAICP		
			D72688	29.5	30.5	1	0.006	AGAT_FAICP		
			D72689	30.5	31.5	1	0.002	AGAT_FAICP		Brass (drill marks) on core.
			D72704	42	43	1	0.011	AGAT_FAICP		



From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72705	43	44	1	0.004	AGAT_FAICP		
			D72707	44	45	1	0.008	AGAT_FAICP		
			D72708	45	46	1	0.0005	AGAT_FAICP		
			D72709	46	46.5	0.5	0.002	AGAT_FAICP		
			D72697	36.5	37.5	1	0.0005	AGAT_FAICP		
			D72699	37.5	38.35	0.85	0.001	AGAT_FAICP		
			D72700	38.35	39.57	1.22	0.003	AGAT_FAICP		
			D72701	39.57	40.05	0.48	0.006	AGAT_FAICP		
			D72702	40.05	41	0.95	0.002	AGAT_FAICP		
			D72703	41	42	1	0.122	AGAT_FAICP		
			D72690	31.5	32.5	1	0.002	AGAT_FAICP		
			D72691	32.5	33.2	0.7	0.039	AGAT_FAICP		
			D72693	33.2	33.55	0.35	0.004	AGAT_FAICP		
			D72694	33.55	34.5	0.95	0.006	AGAT_FAICP		
			D72695	34.5	35.5	1	0.009	AGAT_FAICP		
			D72696	35.5	36.5	1	0.002	AGAT_FAICP		

**Hole ID :** SN19-00020A

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 35  
 Drill Start : 28-Oct-2019  
 Drill Completed : 29-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 337696  
 Northing : 5303780  
 Elevation : 413  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

Hole abandoned after 35ms of casing with no bedrock contact. Move to RC-125. Roswell West

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	35.00	(OB) Overburden, ( )								Minimum OB depth 35m; hole abandoned in OB due to tight casing

**Hole ID :** SN19-00021

**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 42.15  
 Drill Start : 29-Oct-2019  
 Drill Completed : 30-Oct-2019  
 Core Size : RC Chips  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 337463  
 Northing : 5304373  
 Elevation : 416  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

Logged By : William.Gerber  
 Logged By 2 :  
 Log Start : 2-Nov-2019  
 Log Completed : 3-Nov-2019  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

Comments :

SN19-00021 was drilled to 42.00 metres according to applicable Major time sheets but 42.15 metres of NQ core was recovered. Roswell West

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	21.55	(OB) Overburden, ( )	Z39744	21	21.55	0.55	0.0008	ALS_ST44		Unique sandy till sample retrieved from overburden; right above AMP-FW bedrock. Sandy till with grey clay and some small granitoid pebbles.
21.55	42.15	(AMP) Amphibolite, (AMPFW) Footwall Amphibolite	D72710	21.55	22	0.45	0.01	AGAT_FAICP		Looks like footwall amphibolite; dark green; non-magnetic (local Mt-rich level is strongly magnetic); weakly to moderately foliated; fg matrix with common fg-mg-cg Gt porphyroblasts (overall 2% Gt) and some Gt rich masses and Gt+Bt rich bands // S1; common medium green (Cpx) masses and bands // S1 with Fp+/-Gt+/-Po+/-Py (probable pillow selvages) locally boudinaged. Some Bt-rich bands // S1. Few Qz+/-Cb veinlets // S1; local QV2 veinlet oblique to S1 at 31.1m. Moderately fractured interval from 28.5 to 31m (blocky core). Few pale green Ser-altered haloes around late QzCb veinlets. EOH=42.15m.
			D72711	22	23	1	0.005	AGAT_FAICP		
			D72713	23	24	1	0.005	AGAT_FAICP		
			D72714	24	25	1	0.004	AGAT_FAICP		
			D72715	25	26	1	0.007	AGAT_FAICP		
			D72716	26	27	1	0.004	AGAT_FAICP		
			D72731	39	40	1	0.006	AGAT_FAICP		
			D72733	40	41	1	0.006	AGAT_FAICP		

From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
			D72734	41	42.15	1.15	0.005	AGAT_FAICP		
			D72724	33	34	1	0.005	AGAT_FAICP		
			D72725	34	35	1	0.043	AGAT_FAICP		
			D72727	35	36	1	0.007	AGAT_FAICP		
			D72728	36	37	1	0.004	AGAT_FAICP		
			D72729	37	38	1	0.003	AGAT_FAICP		
			D72730	38	39	1	0.092	AGAT_FAICP		
			D72717	27	28	1	0.004	AGAT_FAICP		
			D72719	28	29	1	0.004	AGAT_FAICP		
			D72720	29	30	1	0.004	AGAT_FAICP		
			D72721	30	31	1	0.004	AGAT_FAICP		
			D72722	31	32	1	0.005	AGAT_FAICP		
			D72723	32	33	1	0.004	AGAT_FAICP		

**Hole ID :** SN19-00022A  
**Project :** Borden\_N

Drilling Details :

Azimuth : 0  
 Dip : -90  
 Length : 38  
 Drill Start : 31-Oct-2019  
 Drill Completed : 31-Oct-2019  
 Core Size : NQ  
 Drill Company : Major  
 Oriented Core : No

Location Details :

Easting : 336978  
 Northing : 5305247  
 Elevation : 423  
 UTM Grid : NAD83\_UTMZ17N\_GPS  
 Township : Borden  
 Storage Location : Chapleau Ont

Logging Details :

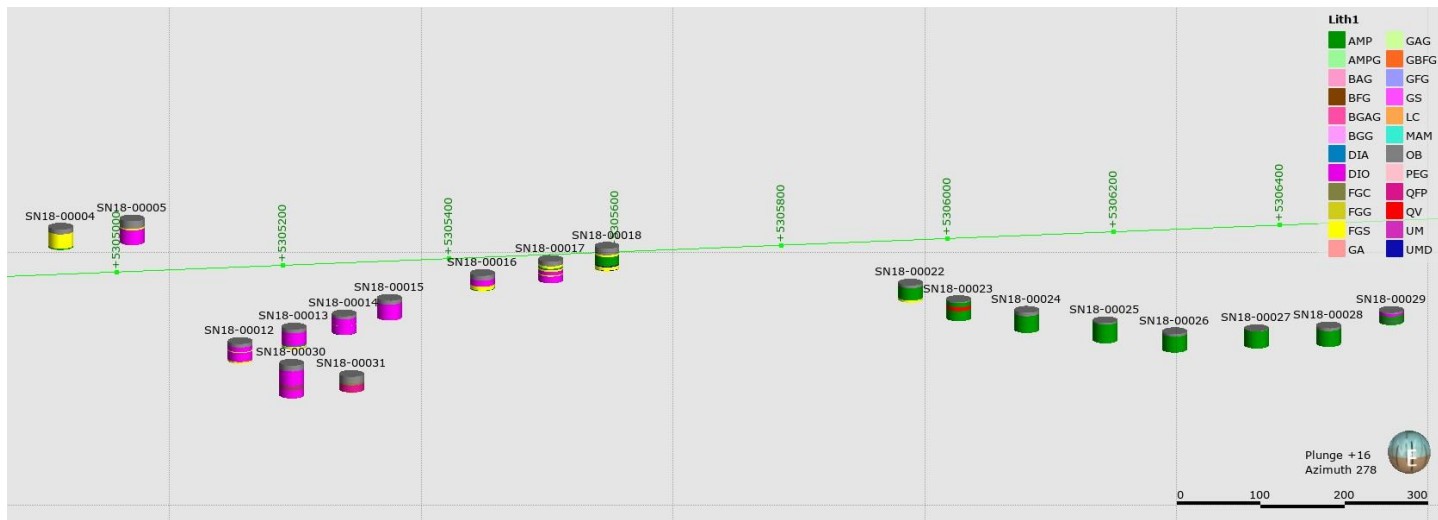
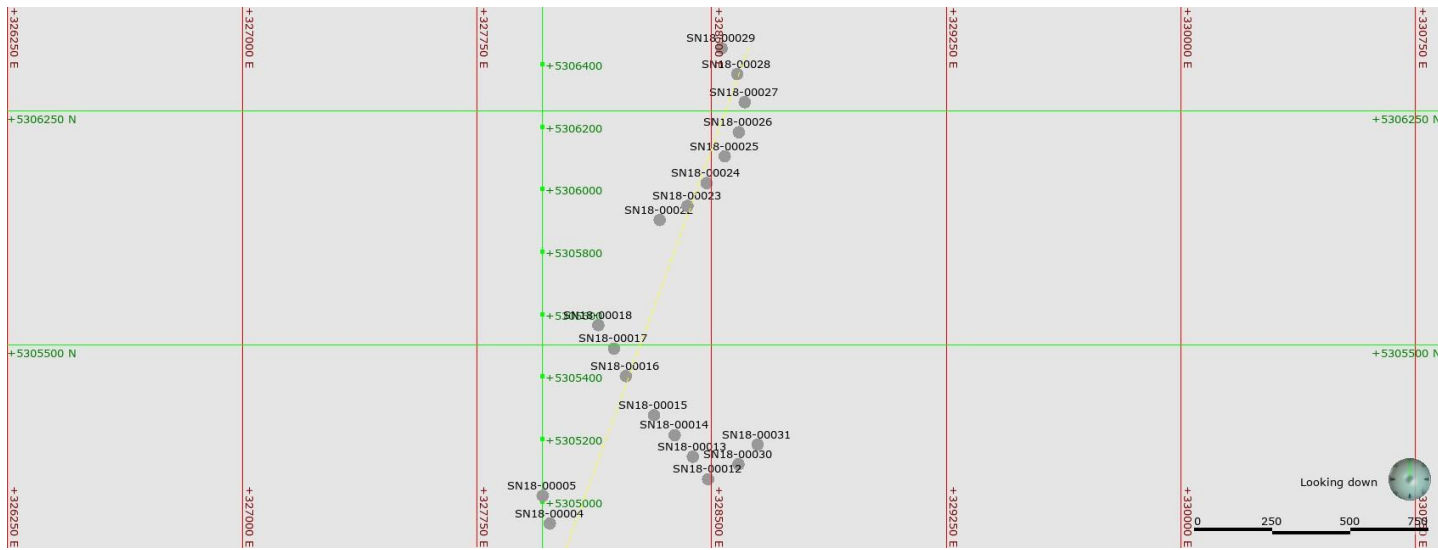
Logged By :  
 Logged By 2 :  
 Log Start :  
 Log Completed :  
 Re-Logged By :  
 Re-Log Start :  
 Re-Log Completed :

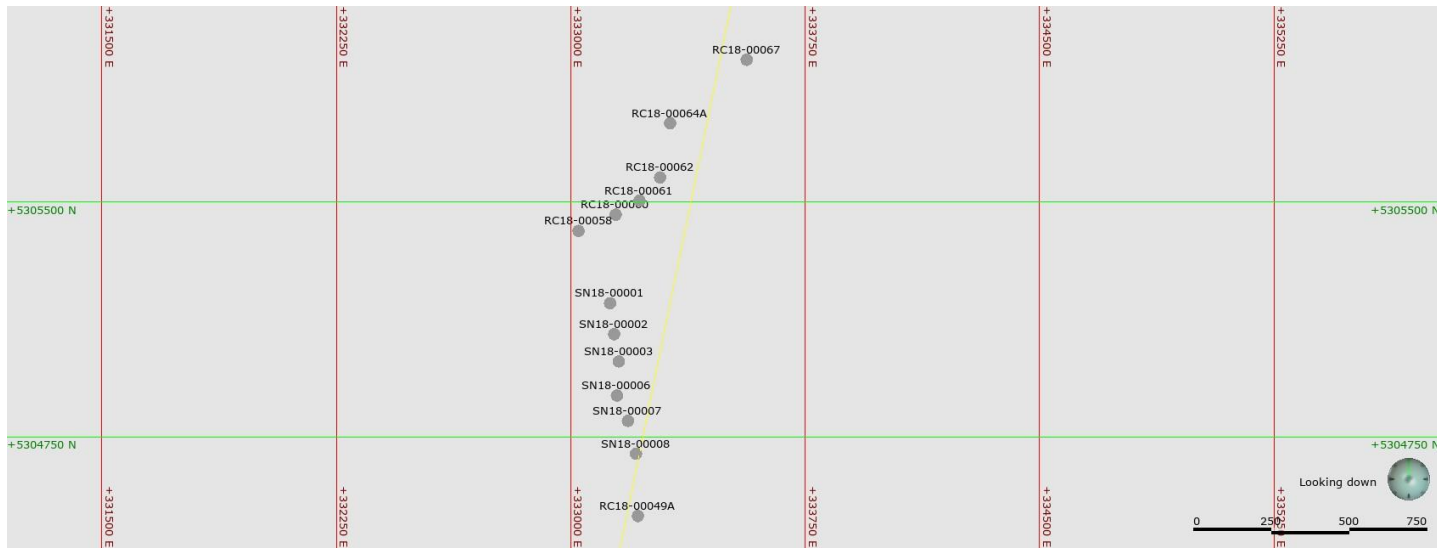
Comments :

Hole abandoned after 38ms of casing with no bedrock contact. End of 2019 sonic program. Prepare for demobilization. Roswell West

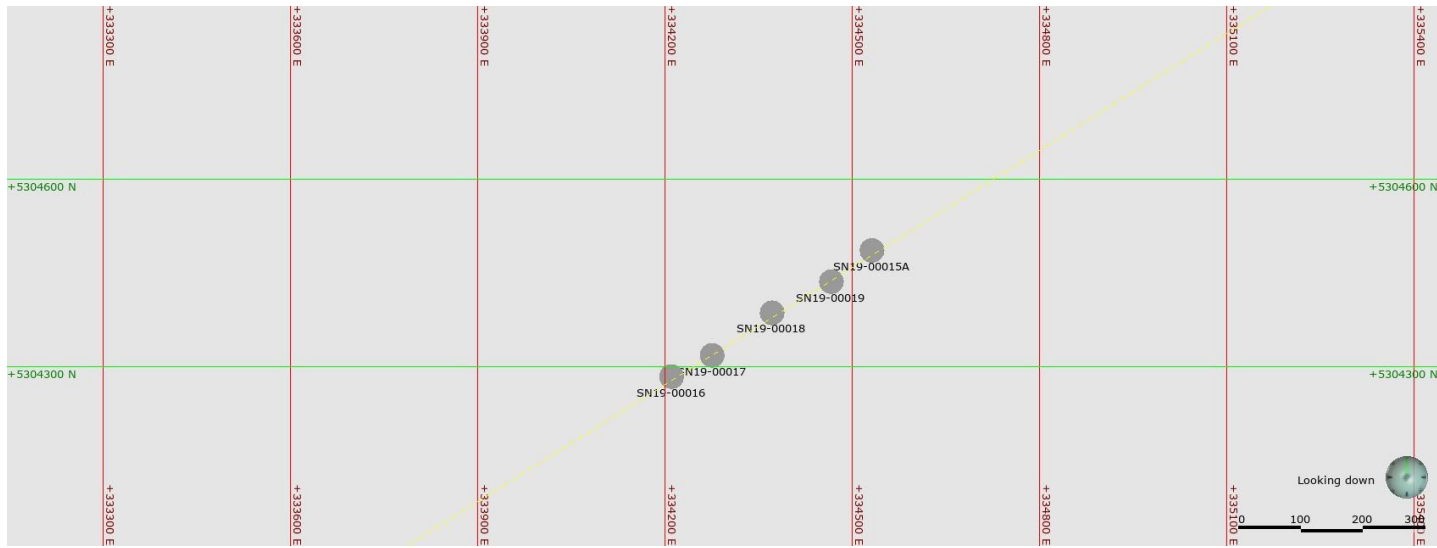
From (m)	To (m)	Lithological unit	SampleID	From (m)	To (m)	Length (m)	Au (gpt)	Name	V.G.	Comments
0.00	38.00	(OB) Overburden, ( )								Hole abandoned in OB at 38m.

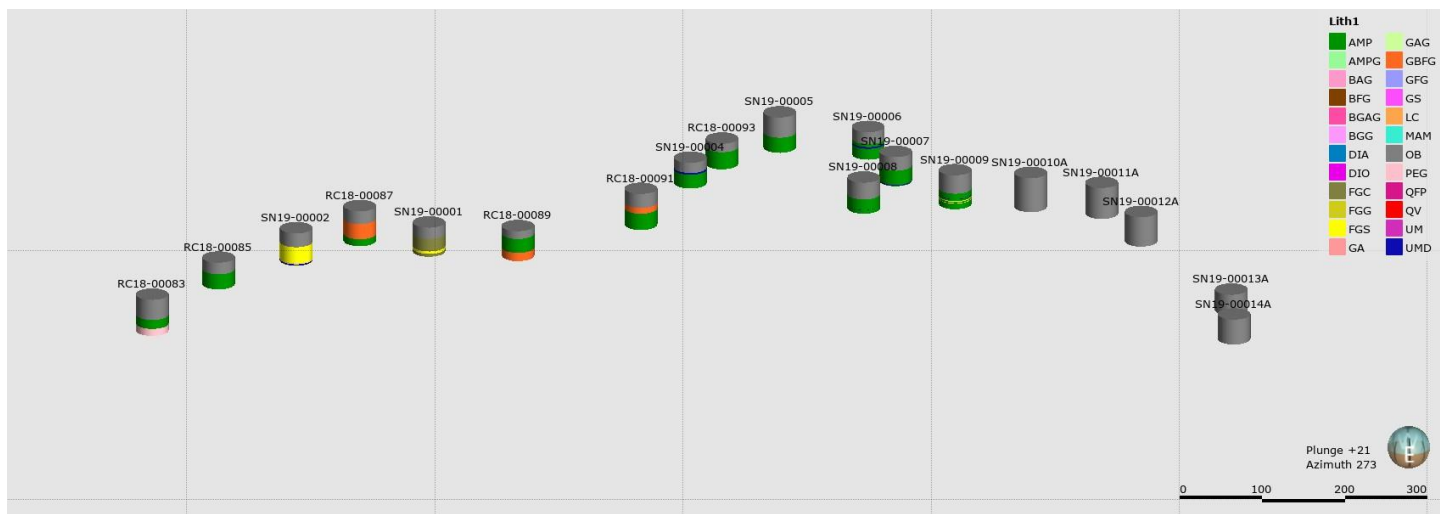
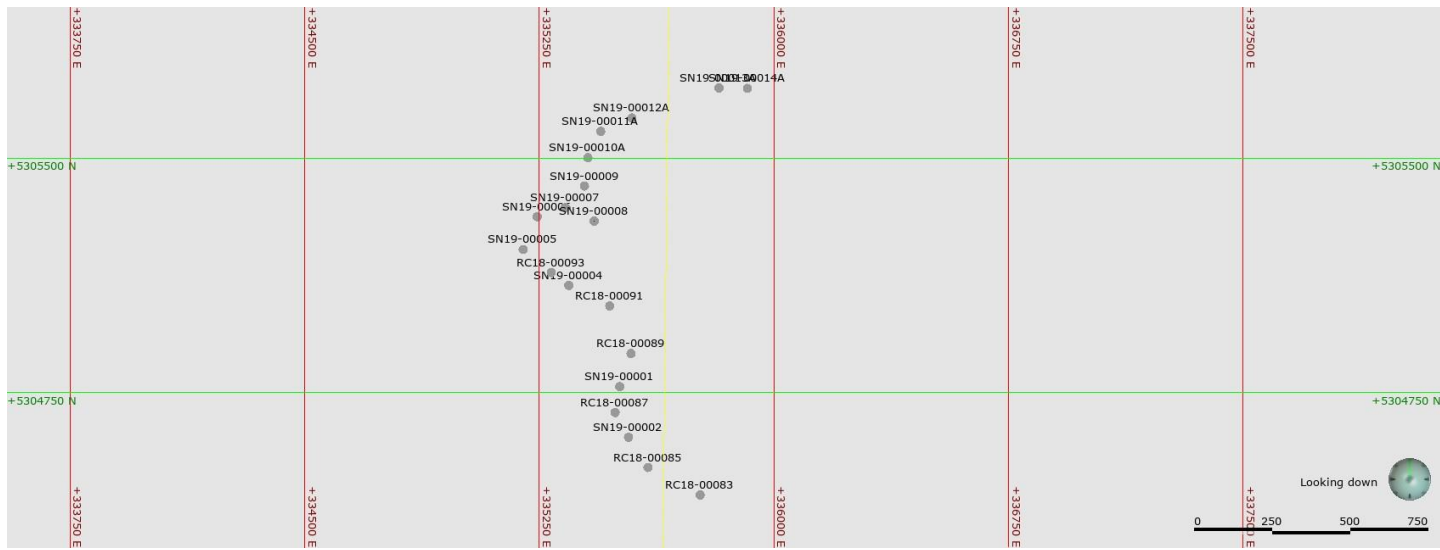
## Appendix 3. Drill hole cross sections

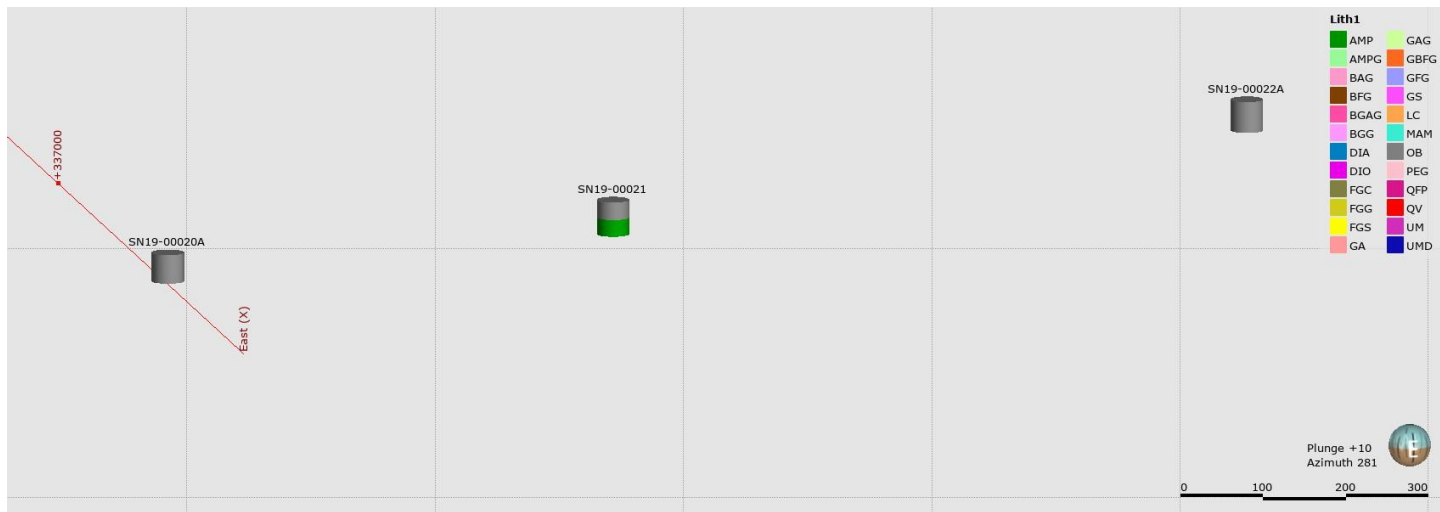
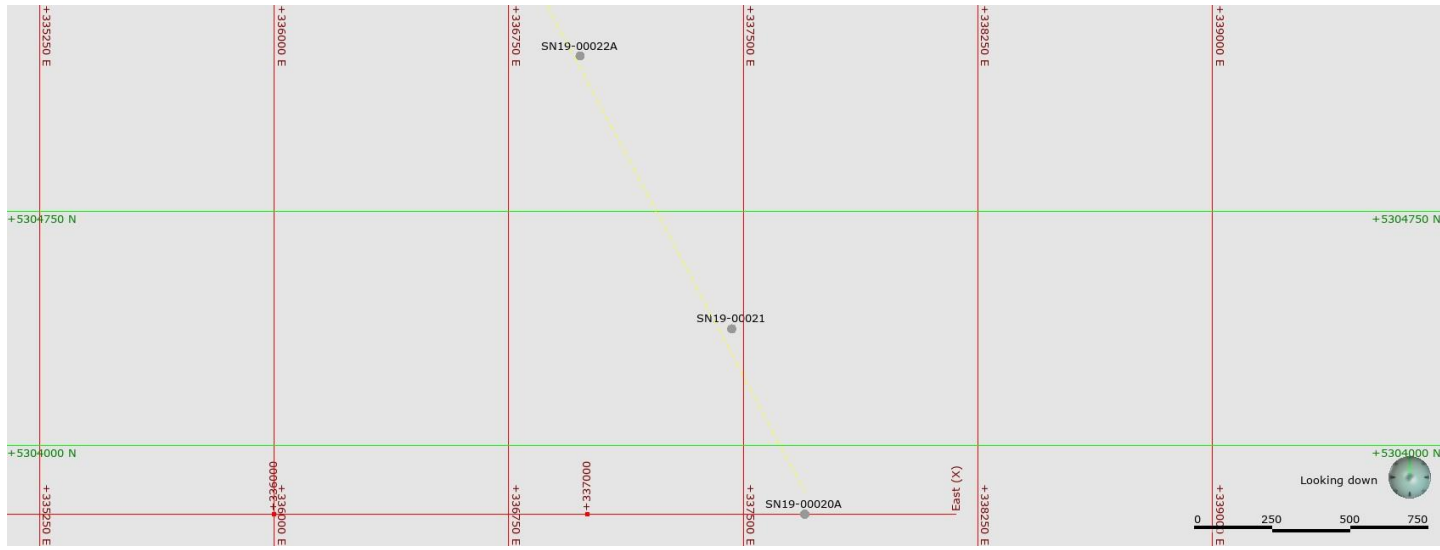












## Appendix 4. Assay Certificates



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00321

AGAT WORK ORDER: 18B386297

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 16, 2018

PAGES (INCLUDING COVER): 20

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 16, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Oct 16, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72131 (9553107)		1.62
A72132 (9553108)		1.32
A72133 (9553109)		1.44
A72134 (9553110)		1.77
A72135 (9553111)		2.10
A72136 (9553112)		1.94
A72137 (9553113)		1.41
A72138 (9553114)		1.41
A72139 (9553115)		0.70
A72140 (9553116)		1.36
A72141 (9553117)		1.23
A72142 (9553118)		1.36
A72143 (9553119)		1.45
A72144 (9553120)		2.10
A72145 (9553121)		1.69
A72146 (9553122)		0.07
A72147 (9553123)		1.43
A72148 (9553124)		1.39
A72149 (9553125)		1.57
A72150 (9553126)		1.74
A72151 (9553127)		1.64
A72152 (9553128)		0.96
A72153 (9553129)		1.66
A72154 (9553130)		1.79
A72155 (9553131)		2.05
A72156 (9553132)		1.76
A72157 (9553133)		1.38
A72158 (9553134)		1.38
A72159 (9553135)		1.89
A72160 (9553136)		1.34
A72161 (9553137)		1.49

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 16, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Oct 16, 2018      SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID)	RDL: 0.01
A72162 (9553138)	1.76

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 16, 2018	DATE RECEIVED: Sep 17, 2018							DATE REPORTED: Oct 16, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72131 (9553107)	<0.5	7.14	2	608	2.1	<1	3.88	<0.5	37	16.5	303	14.0	3.28	32	
A72132 (9553108)	<0.5	0.12	3	21	<0.5	<1	37.3	<0.5	<1	0.6	8.3	0.9	0.15	14	
A72133 (9553109)	<0.5	7.88	4	716	1.5	2	4.29	<0.5	39	17.8	307	19.5	3.64	35	
A72134 (9553110)	<0.5	7.39	<1	705	1.5	<1	4.03	<0.5	37	15.6	307	11.9	3.31	32	
A72135 (9553111)	<0.5	7.10	<1	609	1.6	<1	4.06	<0.5	37	16.9	310	10.3	3.39	33	
A72136 (9553112)	<0.5	7.49	1	612	1.6	<1	3.76	<0.5	39	18.2	334	15.2	3.42	32	
A72137 (9553113)	<0.5	6.43	<1	566	1.5	<1	3.75	<0.5	33	15.3	314	11.2	3.07	29	
A72138 (9553114)	<0.5	6.00	<1	534	1.6	<1	3.58	<0.5	32	15.6	316	11.2	2.88	30	
A72139 (9553115)	<0.5	7.45	<1	657	1.9	<1	3.14	<0.5	41	21.3	281	28.2	4.27	36	
A72140 (9553116)	<0.5	7.84	2	560	2.4	<1	2.03	<0.5	76	9.0	71.4	11.0	2.47	28	
A72141 (9553117)	<0.5	7.95	<1	1620	2.2	<1	1.12	<0.5	80	4.8	37.8	7.0	2.04	27	
A72142 (9553118)	<0.5	7.61	<1	744	1.8	<1	3.18	<0.5	37	13.8	172	36.8	3.13	30	
A72143 (9553119)	<0.5	7.55	<1	784	1.9	<1	3.47	<0.5	38	14.1	176	9.7	3.09	33	
A72144 (9553120)	<0.5	8.01	1	911	1.9	<1	3.32	<0.5	37	13.8	170	18.1	3.15	31	
A72145 (9553121)	<0.5	7.74	<1	917	2.6	<1	3.19	<0.5	38	14.4	186	14.0	3.16	31	
A72146 (9553122)	<0.5	7.38	<1	192	1.3	5	7.06	<0.5	20	38.8	196	113	7.96	37	
A72147 (9553123)	<0.5	7.63	<1	811	1.8	<1	3.38	<0.5	38	13.9	177	4.5	3.23	30	
A72148 (9553124)	<0.5	7.66	<1	881	1.9	2	3.49	<0.5	38	13.2	187	16.7	3.25	32	
A72149 (9553125)	<0.5	7.33	<1	927	1.9	<1	3.72	<0.5	37	15.3	209	15.7	3.23	30	
A72150 (9553126)	<0.5	7.63	<1	867	1.6	2	3.51	<0.5	36	13.6	188	12.5	3.27	30	
A72151 (9553127)	<0.5	7.38	<1	749	1.8	<1	3.07	<0.5	35	13.7	173	11.9	3.18	28	
A72152 (9553128)	<0.5	0.13	<1	22	<0.5	<1	37.1	<0.5	<1	1.0	5.5	0.6	0.14	14	
A72153 (9553129)	<0.5	7.11	2	905	1.8	2	3.41	<0.5	34	13.8	176	17.8	3.04	30	
A72154 (9553130)	<0.5	7.91	1	905	2.0	<1	3.13	<0.5	38	14.4	179	13.1	3.29	31	
A72155 (9553131)	<0.5	7.17	<1	899	2.0	<1	3.22	<0.5	36	13.8	178	9.9	3.06	31	
A72156 (9553132)	<0.5	7.54	<1	863	2.3	<1	3.05	<0.5	39	14.7	174	57.7	3.09	31	
A72157 (9553133)	<0.5	7.69	<1	895	1.9	<1	3.40	<0.5	39	13.7	167	7.4	3.11	35	
A72158 (9553134)	<0.5	7.79	<1	897	1.8	<1	3.42	<0.5	37	13.7	179	7.9	3.16	31	
A72159 (9553135)	<0.5	7.70	<1	787	1.8	<1	2.87	<0.5	39	14.2	156	46.6	3.15	31	
A72160 (9553136)	0.5	8.14	<1	1130	2.4	<1	1.15	<0.5	87	5.2	25.8	26.0	2.11	26	
A72161 (9553137)	<0.5	7.72	1	964	2.4	1	1.09	<0.5	82	4.9	29.1	2.8	1.94	25	
A72162 (9553138)	<0.5	7.58	4	894	2.5	<1	1.45	<0.5	85	5.6	29.7	3.8	1.96	26	

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# Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

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TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

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### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 16, 2018	DATE RECEIVED: Sep 17, 2018					DATE REPORTED: Oct 16, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72131 (9553107)	<1	1.45	16	34	2.33	559	5.3	3.10	95.8	578	0.06	<1	13	<10	
A72132 (9553108)	<1	0.03	2	<1	2.12	55	2.3	0.06	4.5	75	<0.01	<1	<1	<10	
A72133 (9553109)	<1	1.63	17	27	2.73	583	2.9	3.37	95.7	610	0.09	<1	13	<10	
A72134 (9553110)	<1	1.54	17	28	2.52	599	3.3	3.14	93.7	535	0.05	<1	12	<10	
A72135 (9553111)	<1	1.44	16	26	2.54	566	5.2	2.98	100	569	0.04	<1	12	<10	
A72136 (9553112)	<1	1.82	17	31	2.60	543	3.3	2.99	102	558	0.03	<1	13	<10	
A72137 (9553113)	<1	1.39	14	27	2.27	496	4.8	2.66	94.8	527	0.03	<1	11	<10	
A72138 (9553114)	<1	1.28	14	24	2.12	468	5.1	2.50	97.0	551	0.03	1	11	<10	
A72139 (9553115)	<1	2.50	18	37	2.55	637	4.4	2.70	104	644	0.08	<1	16	<10	
A72140 (9553116)	<1	1.59	33	27	1.07	303	4.5	3.93	50.2	667	0.03	3	6	<10	
A72141 (9553117)	<1	2.57	36	21	0.84	200	3.4	4.24	38.0	739	0.01	1	4	<10	
A72142 (9553118)	<1	2.08	15	38	2.06	531	4.2	3.18	67.4	672	0.03	2	10	<10	
A72143 (9553119)	<1	1.78	16	33	2.02	500	3.0	3.35	71.1	701	0.01	3	11	<10	
A72144 (9553120)	<1	1.99	16	36	2.09	507	2.5	3.66	67.4	666	0.01	4	10	<10	
A72145 (9553121)	<1	2.12	17	53	2.09	507	3.7	3.43	68.6	695	0.01	<1	11	<10	
A72146 (9553122)	<1	0.45	9	10	4.45	1270	<0.5	2.32	113	883	0.09	2	33	<10	
A72147 (9553123)	<1	2.00	16	35	2.17	517	3.2	3.54	69.3	670	<0.01	3	11	<10	
A72148 (9553124)	<1	2.04	16	35	2.15	536	3.0	3.44	66.5	691	<0.01	1	11	<10	
A72149 (9553125)	<1	1.99	16	33	2.22	529	3.1	3.42	73.6	746	<0.01	<1	12	<10	
A72150 (9553126)	<1	2.07	16	35	2.21	526	2.1	3.47	67.5	706	<0.01	1	11	<10	
A72151 (9553127)	<1	1.99	15	39	2.14	501	1.8	3.24	65.3	677	0.01	<1	11	<10	
A72152 (9553128)	<1	0.03	2	1	2.69	52	2.0	0.07	3.0	103	<0.01	1	<1	<10	
A72153 (9553129)	<1	1.91	15	36	2.09	495	1.6	3.25	60.5	636	0.02	2	10	<10	
A72154 (9553130)	<1	2.05	16	44	2.26	492	2.6	3.43	66.7	681	0.02	<1	11	<10	
A72155 (9553131)	<1	2.00	15	52	2.07	480	3.0	3.18	65.8	703	0.02	<1	11	<10	
A72156 (9553132)	<1	1.86	17	52	2.05	514	2.1	3.02	65.4	661	0.12	2	11	<10	
A72157 (9553133)	<1	1.83	17	41	2.08	499	2.9	3.17	65.7	671	0.02	<1	10	<10	
A72158 (9553134)	<1	1.83	16	41	2.07	503	4.3	3.23	49.3	635	0.03	<1	10	<10	
A72159 (9553135)	<1	1.83	17	26	1.98	517	4.1	2.83	48.4	659	0.42	<1	10	<10	
A72160 (9553136)	<1	3.37	39	17	0.77	214	4.0	3.59	16.2	727	0.33	<1	4	<10	
A72161 (9553137)	<1	3.21	35	26	0.72	219	3.4	3.59	14.9	648	0.02	2	3	<10	
A72162 (9553138)	<1	2.22	38	26	0.67	263	4.5	3.62	16.2	793	0.02	<1	4	<10	

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# Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Certified By:



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PROJECT: AGAT00321

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### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 16, 2018	DATE RECEIVED: Sep 17, 2018						DATE REPORTED: Oct 16, 2018				SAMPLE TYPE: Drill Core	
Analyte: Unit: RDL:	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
Sample ID (AGAT ID)	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72131 (9553107)	<5	722	<10	<10	<5	0.23	<5	91.6	1	12	54.4	75
A72132 (9553108)	<5	74	<10	<10	<5	<0.01	<5	2.0	<1	2	<0.5	<5
A72133 (9553109)	<5	793	<10	<10	<5	0.28	<5	96.2	3	11	59.7	80
A72134 (9553110)	<5	697	<10	<10	<5	0.22	<5	86.4	1	9	54.5	76
A72135 (9553111)	<5	732	<10	<10	<5	0.24	<5	87.0	<1	11	56.3	76
A72136 (9553112)	<5	733	<10	<10	<5	0.26	<5	93.7	2	11	59.9	79
A72137 (9553113)	<5	636	<10	<10	<5	0.22	<5	81.2	1	10	47.4	67
A72138 (9553114)	<5	611	<10	<10	<5	0.21	<5	80.8	1	10	48.2	68
A72139 (9553115)	<5	595	<10	<10	<5	0.34	<5	120	2	12	83.7	89
A72140 (9553116)	<5	581	<10	<10	<5	0.21	<5	52.3	2	10	45.6	128
A72141 (9553117)	<5	452	<10	<10	<5	0.17	<5	35.3	<1	9	40.9	126
A72142 (9553118)	<5	712	<10	<10	<5	0.25	<5	78.8	1	11	56.6	66
A72143 (9553119)	<5	686	<10	<10	<5	0.25	<5	78.6	<1	13	52.3	65
A72144 (9553120)	<5	759	<10	<10	<5	0.26	<5	77.5	<1	11	54.2	70
A72145 (9553121)	<5	779	<10	<10	<5	0.26	<5	82.3	1	12	54.6	69
A72146 (9553122)	<5	241	<10	<10	<5	0.84	<5	240	1	21	86.3	84
A72147 (9553123)	<5	814	<10	<10	<5	0.27	<5	80.1	<1	11	53.4	64
A72148 (9553124)	<5	703	<10	<10	<5	0.27	<5	79.7	2	12	55.9	64
A72149 (9553125)	<5	786	<10	<10	<5	0.27	<5	84.7	1	12	53.7	65
A72150 (9553126)	<5	759	<10	<10	<5	0.28	<5	79.6	<1	11	57.2	60
A72151 (9553127)	<5	742	<10	<10	<5	0.26	<5	78.9	1	11	54.4	62
A72152 (9553128)	<5	74	<10	<10	<5	<0.01	<5	1.9	<1	2	<0.5	<5
A72153 (9553129)	<5	689	<10	<10	<5	0.24	<5	75.8	<1	11	53.5	63
A72154 (9553130)	<5	748	<10	<10	<5	0.27	<5	80.8	<1	11	58.5	66
A72155 (9553131)	<5	650	<10	<10	<5	0.24	<5	75.6	<1	12	55.3	62
A72156 (9553132)	<5	972	<10	<10	<5	0.26	<5	79.2	2	12	63.3	64
A72157 (9553133)	<5	718	<10	<10	<5	0.25	<5	79.2	2	11	61.2	63
A72158 (9553134)	<5	735	<10	<10	<5	0.25	<5	77.3	1	11	63.7	68
A72159 (9553135)	<5	1020	<10	<10	<5	0.25	<5	72.0	2	11	85.7	65
A72160 (9553136)	<5	412	<10	<10	<5	0.16	<5	35.8	2	8	43.7	131
A72161 (9553137)	<5	430	<10	<10	<5	0.17	<5	31.2	<1	8	41.7	117
A72162 (9553138)	<5	416	<10	<10	<5	0.17	<5	31.5	2	9	40.6	122

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9553107-9553138 As, Sb values may be low due to digestion losses.

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## Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

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CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 16, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Oct 16, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72131 (9553107)		13.5	53.5	1.12
A72132 (9553108)		0.9	0.7	0.128
A72133 (9553109)		13.3	56.9	1.17
A72134 (9553110)		11.4	54.6	1.04
A72135 (9553111)		11.7	50.3	1.17
A72136 (9553112)		12.2	68.1	1.03
A72137 (9553113)		9.4	48.0	1.01
A72138 (9553114)		9.6	49.1	1.02
A72139 (9553115)		12.0	96.9	1.39
A72140 (9553116)		13.0	60.0	2.40
A72141 (9553117)		14.2	55.4	2.38
A72142 (9553118)		13.6	71.9	1.25
A72143 (9553119)		12.5	63.1	1.21
A72144 (9553120)		13.3	67.2	1.35
A72145 (9553121)		13.2	68.7	1.23
A72146 (9553122)		3.5	11.7	0.436
A72147 (9553123)		14.4	59.4	1.29
A72148 (9553124)		14.2	62.8	1.30
A72149 (9553125)		12.8	60.0	1.20
A72150 (9553126)		13.1	57.5	1.22
A72151 (9553127)		13.5	66.5	1.27
A72152 (9553128)		0.7	0.8	0.213
A72153 (9553129)		12.0	61.5	1.23
A72154 (9553130)		12.3	68.6	1.46
A72155 (9553131)		10.7	71.4	1.21
A72156 (9553132)		14.4	72.4	1.31
A72157 (9553133)		14.0	63.1	1.22
A72158 (9553134)		14.2	62.4	1.24
A72159 (9553135)		23.3	73.3	1.38
A72160 (9553136)		21.5	79.9	3.25
A72161 (9553137)		15.9	81.5	2.84
A72162 (9553138)		14.5	72.3	2.98

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PROJECT: AGAT00321

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TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9553107-9553138 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 16, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Oct 16, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72131 (9553107)			0.041
A72132 (9553108)			0.002
A72133 (9553109)			0.011
A72134 (9553110)			0.009
A72135 (9553111)			0.005
A72136 (9553112)			0.007
A72137 (9553113)			0.005
A72138 (9553114)			0.006
A72139 (9553115)			0.012
A72140 (9553116)			0.016
A72141 (9553117)			0.004
A72142 (9553118)			0.014
A72143 (9553119)			0.004
A72144 (9553120)			0.019
A72145 (9553121)			0.005
A72146 (9553122)			0.347
A72147 (9553123)			0.007
A72148 (9553124)			0.018
A72149 (9553125)			0.005
A72150 (9553126)			0.005
A72151 (9553127)			0.006
A72152 (9553128)			<0.001
A72153 (9553129)			0.003
A72154 (9553130)			0.007
A72155 (9553131)			0.008
A72156 (9553132)			0.020
A72157 (9553133)			0.012
A72158 (9553134)			0.046
A72159 (9553135)			0.103
A72160 (9553136)			0.674
A72161 (9553137)			0.011
A72162 (9553138)			1.21

Certified By:





**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72133 (9553109)		84
A72145 (9553121)		84
A72150 (9553126)		87

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B386297

PROJECT: AGAT00321

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 16, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Oct 16, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72131 (9553107)		94
A72158 (9553134)		94

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9553107	< 0.5	< 0.5	0.0%	9553121	< 0.5	< 0.5	0.0%	9553132	< 0.5	< 0.5	0.0%				
Al	9553107	7.14	7.61	6.4%	9553121	7.74	7.38	4.8%	9553132	7.54	7.93	5.0%				
As	9553107	2	2	0.0%	9553121	< 1	< 1	0.0%	9553132	< 1	< 1	0.0%				
Ba	9553107	608	685	11.9%	9553121	917	895	2.4%	9553132	863	910	5.3%				
Be	9553107	2.1	2.1	0.0%	9553121	2.6	2.6	0.0%	9553132	2.3	2.3	0.0%				
Bi	9553107	< 1	< 1	0.0%	9553121	< 1	< 1	0.0%	9553132	< 1	< 1	0.0%				
Ca	9553107	3.88	4.08	5.0%	9553121	3.19	3.15	1.3%	9553132	3.05	3.22	5.4%				
Cd	9553107	< 0.5	< 0.5	0.0%	9553121	< 0.5	< 0.5	0.0%	9553132	< 0.5	< 0.5	0.0%				
Ce	9553107	37	39	5.3%	9553121	38	37	2.7%	9553132	39	42	7.4%				
Co	9553107	16.5	18.0	8.7%	9553121	14.4	13.6	5.7%	9553132	14.7	14.6	0.7%				
Cr	9553107	303	334	9.7%	9553121	186	165	12.0%	9553132	174	175	0.6%				
Cu	9553107	14.0	14.9	6.2%	9553121	14.0	13.3	5.1%	9553132	57.7	55.5	3.9%				
Fe	9553107	3.28	3.56	8.2%	9553121	3.16	3.00	5.2%	9553132	3.09	3.20	3.5%				
Ga	9553107	32	35	9.0%	9553121	31	31	0.0%	9553132	31	35	12.1%				
In	9553107	< 1	< 1	0.0%	9553121	< 1	< 1	0.0%	9553132	< 1	< 1	0.0%				
K	9553107	1.45	1.63	11.7%	9553121	2.12	2.02	4.8%	9553132	1.86	1.94	4.2%				
La	9553107	16	17	6.1%	9553121	17	16	6.1%	9553132	17	18	5.7%				
Li	9553107	34	34	0.0%	9553121	53	50	5.8%	9553132	52	53	1.9%				
Mg	9553107	2.33	2.52	7.8%	9553121	2.09	1.98	5.4%	9553132	2.05	2.11	2.9%				
Mn	9553107	559	584	4.4%	9553121	507	481	5.3%	9553132	514	533	3.6%				
Mo	9553107	5.26	5.19	1.3%	9553121	3.74	3.98	6.2%	9553132	2.1	3.2					
Na	9553107	3.10	3.27	5.3%	9553121	3.43	3.38	1.5%	9553132	3.02	3.22	6.4%				
Ni	9553107	95.8	100	4.3%	9553121	68.6	68.7	0.1%	9553132	65.4	70.4	7.4%				
P	9553107	578	585	1.2%	9553121	695	677	2.6%	9553132	661	681	3.0%				
S	9553107	0.06	0.06	0.0%	9553121	0.01	0.01	0.0%	9553132	0.12	0.12	0.0%				
Sb	9553107	< 1	< 1	0.0%	9553121	< 1	< 1	0.0%	9553132	2	< 1					
Sc	9553107	13	14	7.4%	9553121	11	11	0.0%	9553132	11	11	0.0%				
Se	9553107	< 10	< 10	0.0%	9553121	< 10	< 10	0.0%	9553132	< 10	< 10	0.0%				
Sn	9553107	< 5	< 5	0.0%	9553121	< 5	< 5	0.0%	9553132	< 5	< 5	0.0%				
Sr	9553107	722	768	6.2%	9553121	779	773	0.8%	9553132	972	1090	11.4%				
Ta	9553107	< 10	< 10	0.0%	9553121	< 10	< 10	0.0%	9553132	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9553107	< 10	< 10	0.0%	9553121	< 10	< 10	0.0%	9553132	< 10	< 10	0.0%				
Th	9553107	< 5	< 5	0.0%	9553121	< 5	< 5	0.0%	9553132	< 5	< 5	0.0%				
Ti	9553107	0.234	0.262	11.3%	9553121	0.26	0.25	3.9%	9553132	0.26	0.27	3.8%				
Tl	9553107	< 5	< 5	0.0%	9553121	< 5	< 5	0.0%	9553132	< 5	< 5	0.0%				
V	9553107	91.6	99.6	8.4%	9553121	82.3	79.8	3.1%	9553132	79.2	83.1	4.8%				
W	9553107	1	< 1		9553121	1	2		9553132	2	5					
Y	9553107	12	13	8.0%	9553121	12	12	0.0%	9553132	12	12	0.0%				
Zn	9553107	54.4	60.1	10.0%	9553121	54.6	52.9	3.2%	9553132	63.3	66.3	4.6%				
Zr	9553107	75	78	3.9%	9553121	69	65	6.0%	9553132	64	70	9.0%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9553107	13.5	13.8	2.2%	9553121	13.2	13.7	3.7%	9553132	14.4	15.2	5.4%				
Rb	9553107	53.5	56.8	6.0%	9553121	68.7	67.8	1.3%	9553132	72.4	72.7	0.4%				
U	9553107	1.12	1.14	1.8%	9553121	1.23	1.21	1.6%	9553132	1.31	1.33	1.5%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9553107	0.041	0.014		9553121	0.005	0.006	18.2%	9553132	0.0202	0.0210	3.9%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.SY-4)				CRM #3 (ref.GTS-2a)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al					10.95	10.36	95%	90% - 110%	6.96	6.83	98%	90% - 110%				
As									124	118	95%	90% - 110%				
Ba					340	318	94%	90% - 110%	186	181	97%	90% - 110%				
Be					2.6	2.5	96%	90% - 110%								
Ca					5.72	5.89	103%	90% - 110%	4.01	4.22	105%	90% - 110%				
Ce					122	110	90%	90% - 110%	24	21.8	91%	90% - 110%				
Co									22.1	20.9	95%	90% - 110%				
Cu	88.6	90.9	103%	90% - 110%					88.6	95.5	108%	90% - 110%				
Fe					4.34	4.05	93%	90% - 110%	7.56	7.56	100%	90% - 110%				
Ga					35	36	102%	90% - 110%								
K					1.37	1.4	102%	90% - 110%	2.021	2.051	101%	90% - 110%				
La					58	49.5	85%	90% - 110%								
Li					37	37	99%	90% - 110%								
Mg					0.325	0.304	94%	90% - 110%	2.412	2.492	103%	90% - 110%				
Mn									1510	1394	92%	90% - 110%				
Na					5.267	5.28	100%	90% - 110%	0.617	0.613	99%	90% - 110%				
Ni									77.1	73.7	96%	90% - 110%				
P									892	874	98%	90% - 110%				
S									0.348	0.343	99%	90% - 110%				
Sr					1191	1133	95%	90% - 110%	92.8	85.4	92%	90% - 110%				
Ti					0.172	0.155	90%	90% - 110%								
Y					119	109	92%	90% - 110%								
Zn					93	85	92%	90% - 110%	208	213	102%	90% - 110%				

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW07)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Pb	10	11	107%	90% - 110%												
Rb	55	61	110%	90% - 110%												
U	0.8	0.6	77%	90% - 110%												

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.01	2.19	109%	90% - 110%	6.56	6.97	106%	90% - 110%	2.01	2.21	110%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00321  
 SAMPLING SITE:

AGAT WORK ORDER: 18B386297  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE





CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00322

AGAT WORK ORDER: 18B386839

DATE REPORTED: Nov 02, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



# Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (200-) Sample Login Weight

DATE SAMPLED: Sep 18, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72163 (9557094)		1.46
A72164 (9557095)		1.50
A72165 (9557096)		1.37
A72166 (9557097)		0.07
A72167 (9557098)		1.12
A72168 (9557099)		2.02
A72169 (9557100)		0.83
A72170 (9557101)		2.12
A72171 (9557102)		2.30
A72172 (9557103)		1.02
A72173 (9557104)		1.68
A72174 (9557105)		1.74
A72175 (9557106)		1.70
A72176 (9557107)		2.04
A72177 (9557108)		1.67
A72178 (9557109)		1.67
A72179 (9557110)		1.86
A72180 (9557111)		1.67
A72181 (9557112)		1.65
A72182 (9557113)		0.97
A72183 (9557114)		1.95
A72184 (9557115)		1.17

Comments: RDL - Reported Detection Limit

Certified By: \_\_\_\_\_



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 18, 2018		DATE RECEIVED: Sep 17, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5	
A72163 (9557094)		<0.5	8.29	2	709	1.6	<1	1.94	<0.5	44	8.2	40.4	40.4	2.22	26	
A72164 (9557095)		<0.5	8.00	<1	677	1.2	<1	3.66	<0.5	35	19.8	65.5	26.1	4.18	29	
A72165 (9557096)		<0.5	7.89	2	789	1.5	<1	2.04	<0.5	44	8.0	40.8	34.2	2.12	25	
A72166 (9557097)		<0.5	7.73	<1	200	1.3	3	6.48	<0.5	21	36.1	179	112	7.90	38	
A72167 (9557098)		<0.5	7.95	1	1250	2.3	<1	2.21	<0.5	43	9.1	43.5	57.3	2.44	27	
A72168 (9557099)		<0.5	7.39	<1	506	1.4	<1	6.24	<0.5	63	38.4	81.4	92.8	7.70	34	
A72169 (9557100)		<0.5	8.46	<1	761	1.8	1	3.22	<0.5	40	12.0	61.2	45.6	3.24	27	
A72170 (9557101)		<0.5	8.22	<1	827	1.6	<1	6.16	<0.5	87	37.8	89.2	72.4	6.81	31	
A72171 (9557102)		<0.5	8.48	<1	1100	2.0	2	5.20	<0.5	99	25.8	93.2	94.0	6.13	33	
A72172 (9557103)		<0.5	0.11	<1	20	<0.5	<1	31.5	<0.5	<1	0.8	6.6	<0.5	0.17	13	
A72173 (9557104)		<0.5	7.93	<1	107	<0.5	3	7.30	<0.5	11	45.2	89.3	148	9.68	35	
A72174 (9557105)		<0.5	7.96	<1	143	0.6	4	6.77	<0.5	12	51.0	93.0	120	7.91	34	
A72175 (9557106)		<0.5	7.23	<1	182	1.0	5	6.75	<0.5	9	42.4	74.2	122	8.82	36	
A72176 (9557107)		<0.5	7.67	<1	166	<0.5	6	6.74	<0.5	10	43.9	87.6	117	9.32	33	
A72177 (9557108)		<0.5	8.46	<1	913	1.3	<1	2.95	<0.5	46	12.2	53.8	49.1	2.86	30	
A72178 (9557109)		<0.5	8.32	2	908	1.3	<1	2.96	<0.5	44	11.4	62.1	46.5	2.73	27	
A72179 (9557110)		<0.5	7.28	<1	299	1.0	3	6.19	<0.5	11	42.1	87.8	80.2	8.70	35	
A72180 (9557111)		<0.5	7.94	<1	434	1.0	<1	7.35	<0.5	12	63.8	81.6	265	8.36	41	
A72181 (9557112)		<0.5	7.84	<1	213	0.5	<1	6.74	<0.5	10	48.8	90.7	111	8.22	33	
A72182 (9557113)		<0.5	7.00	<1	54	0.7	<1	6.30	<0.5	9	45.2	90.4	103	8.78	35	
A72183 (9557114)		<0.5	7.60	<1	268	0.8	<1	7.54	<0.5	21	45.3	86.8	123	8.56	33	
A72184 (9557115)		<0.5	7.50	<1	145	0.7	5	6.64	<0.5	11	47.7	90.4	63.8	9.30	38	

Certified By: \_\_\_\_\_



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 18, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	S % 0.01	Sb ppm 1	Sc ppm 1	Se ppm 10
A72163 (9557094)		<1	1.33	19	24	1.00	389	4.6	3.95	20.3	626	0.08	<1	6	<10
A72164 (9557095)		<1	1.49	15	24	2.03	704	2.8	3.31	33.1	520	0.05	<1	21	<10
A72165 (9557096)		<1	1.14	20	17	1.00	357	3.7	3.69	19.3	601	0.11	<1	6	<10
A72166 (9557097)		<1	0.46	9	11	4.38	1370	1.5	2.40	101	875	0.09	<1	35	<10
A72167 (9557098)		<1	1.11	18	40	0.95	362	4.0	4.12	19.4	600	0.11	<1	9	<10
A72168 (9557099)		<1	0.96	26	17	3.85	1290	2.9	2.39	46.2	1100	0.11	<1	39	<10
A72169 (9557100)		<1	1.54	17	53	1.41	517	5.3	4.05	23.6	593	0.10	<1	12	<10
A72170 (9557101)		<1	1.70	36	21	3.68	1380	2.5	2.61	51.0	1620	0.08	<1	35	<10
A72171 (9557102)		<1	2.42	42	23	3.33	1140	1.4	2.87	41.9	2040	0.12	<1	24	<10
A72172 (9557103)		<1	0.02	2	1	3.02	84	2.4	0.05	0.8	108	0.02	<1	<1	<10
A72173 (9557104)		<1	0.62	5	19	4.77	1630	1.2	2.13	55.4	372	0.15	1	49	<10
A72174 (9557105)		<1	0.70	5	14	4.04	1630	1.6	2.30	59.9	385	0.11	<1	50	<10
A72175 (9557106)		<1	0.58	4	19	3.93	1390	3.9	2.22	49.5	348	0.12	2	46	<10
A72176 (9557107)		<1	0.52	4	16	4.42	1440	6.3	2.22	51.6	351	0.12	<1	46	<10
A72177 (9557108)		<1	1.18	20	27	1.40	439	3.7	3.55	24.0	586	0.14	<1	10	<10
A72178 (9557109)		<1	1.14	19	26	1.34	422	3.9	3.63	23.3	568	0.12	<1	10	<10
A72179 (9557110)		<1	0.81	5	26	4.38	1420	3.2	2.04	54.6	355	0.15	<1	45	<10
A72180 (9557111)		<1	0.74	6	19	3.06	1700	2.2	1.62	75.9	429	0.29	<1	52	<10
A72181 (9557112)		<1	0.74	5	22	3.94	1560	3.0	2.00	62.9	335	0.15	<1	48	<10
A72182 (9557113)		<1	0.31	4	28	4.50	1490	2.9	1.81	53.1	326	0.09	4	45	<10
A72183 (9557114)		<1	0.65	10	23	4.02	1700	3.0	1.45	52.1	506	0.11	3	47	<10
A72184 (9557115)		<1	0.44	5	29	4.68	1740	3.0	1.60	53.3	377	0.05	<1	47	<10

Certified By: \_\_\_\_\_



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 18, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
Sample ID (AGAT ID)												
A72163 (9557094)	<5	755	<10	<10	<5	0.22	<5	54.4	2	9	49.7	88
A72164 (9557095)	<5	640	<10	<10	<5	0.33	<5	137	2	13	67.8	59
A72165 (9557096)	<5	792	<10	<10	<5	0.21	<5	53.5	2	7	46.5	80
A72166 (9557097)	<5	257	<10	<10	<5	0.90	<5	237	2	22	91.2	92
A72167 (9557098)	<5	685	<10	<10	<5	0.22	<5	66.4	1	9	41.4	87
A72168 (9557099)	<5	585	<10	<10	<5	0.52	<5	263	2	28	83.2	46
A72169 (9557100)	<5	642	<10	<10	<5	0.26	<5	85.1	2	13	47.2	77
A72170 (9557101)	<5	793	<10	<10	<5	0.56	<5	243	2	29	92.7	70
A72171 (9557102)	<5	938	<10	<10	<5	0.50	<5	200	3	26	83.7	112
A72172 (9557103)	<5	73	<10	<10	<5	<0.01	<5	2.1	2	2	3.5	<5
A72173 (9557104)	<5	398	<10	<10	<5	0.58	<5	298	2	24	89.4	15
A72174 (9557105)	<5	464	<10	<10	<5	0.59	<5	305	3	24	92.3	13
A72175 (9557106)	<5	406	<10	<10	<5	0.53	<5	283	4	22	81.9	16
A72176 (9557107)	<5	399	<10	<10	<5	0.55	<5	279	2	22	84.4	15
A72177 (9557108)	<5	756	<10	<10	<5	0.24	<5	81.8	2	9	61.1	80
A72178 (9557109)	<5	782	<10	<10	<5	0.23	<5	79.8	1	9	60.1	80
A72179 (9557110)	<5	330	<10	<10	<5	0.53	<5	273	3	22	86.7	16
A72180 (9557111)	<5	355	<10	<10	<5	0.61	<5	332	2	28	81.3	12
A72181 (9557112)	<5	332	<10	<10	<5	0.57	<5	295	2	24	83.1	12
A72182 (9557113)	<5	231	<10	<10	<5	0.49	<5	282	4	22	88.6	21
A72183 (9557114)	<5	324	<10	<10	<5	0.55	<5	294	2	24	91.0	14
A72184 (9557115)	<5	231	<10	<10	<5	0.52	<5	299	2	23	92.4	18

Comments: RDL - Reported Detection Limit

9557094-9557115 As, Sb values may be low due to digestion losses.

Certified By: \_\_\_\_\_



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# Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 18, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72163 (9557094)		11.1	42.2	0.915
A72164 (9557095)		7.7	41.2	0.659
A72165 (9557096)		9.5	37.9	1.02
A72166 (9557097)		3.4	12.4	0.445
A72167 (9557098)		8.3	40.3	0.972
A72168 (9557099)		4.8	29.1	0.901
A72169 (9557100)		6.7	47.3	0.980
A72170 (9557101)		6.0	56.0	1.34
A72171 (9557102)		5.4	78.7	1.67
A72172 (9557103)		0.8	0.5	0.150
A72173 (9557104)		3.9	14.4	0.141
A72174 (9557105)		4.4	20.3	0.156
A72175 (9557106)		4.2	15.3	0.141
A72176 (9557107)		4.2	11.9	0.149
A72177 (9557108)		9.6	44.4	1.22
A72178 (9557109)		9.3	45.2	1.17
A72179 (9557110)		4.1	29.5	0.187
A72180 (9557111)		3.1	32.9	0.149
A72181 (9557112)		2.8	20.5	0.135
A72182 (9557113)		1.9	6.7	0.087
A72183 (9557114)		2.2	25.7	0.262
A72184 (9557115)		2.0	14.4	0.140

Comments: RDL - Reported Detection Limit  
9557094-9557115 As, Sb values may be low due to digestion losses.

Certified By: \_\_\_\_\_



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 18, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72163 (9557094)			0.001
A72164 (9557095)			0.006
A72165 (9557096)			0.008
A72166 (9557097)			0.354
A72167 (9557098)			0.005
A72168 (9557099)			0.006
A72169 (9557100)			0.020
A72170 (9557101)			0.004
A72171 (9557102)			0.003
A72172 (9557103)			<0.001
A72173 (9557104)			0.006
A72174 (9557105)			0.007
A72175 (9557106)			0.006
A72176 (9557107)			0.006
A72177 (9557108)			0.011
A72178 (9557109)			0.053
A72179 (9557110)			0.003
A72180 (9557111)			0.007
A72181 (9557112)			0.006
A72182 (9557113)			0.006
A72183 (9557114)			0.643
A72184 (9557115)			0.004

Comments: RDL - Reported Detection Limit

Certified By: \_\_\_\_\_



**AGAT** Laboratories

## Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 18, 2018      DATE RECEIVED: Sep 17, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72163 (9557094)		76
A72182 (9557113)		80

Comments: RDL - Reported Detection Limit

Certified By: \_\_\_\_\_





**AGAT** Laboratories

## Certificate of Analysis

AGAT WORK ORDER: 18B386839

PROJECT: AGAT00322

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 18, 2018

DATE RECEIVED: Sep 17, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72163 (9557094)	94

Comments: RDL - Reported Detection Limit

Certified By: \_\_\_\_\_



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9557094	< 0.5	< 0.5	0.0%	9557108	< 0.5	< 0.5	0.0%				
Al	9557094	8.29	8.20	1.1%	9557108	8.46	8.25	2.5%				
As	9557094	2	< 1		9557108	< 1	1					
Ba	9557094	709	681	4.0%	9557108	913	879	3.8%				
Be	9557094	1.62	1.67	3.0%	9557108	1.33	1.13	16.3%				
Bi	9557094	< 1	< 1	0.0%	9557108	< 1	< 1	0.0%				
Ca	9557094	1.94	1.89	2.6%	9557108	2.95	2.81	4.9%				
Cd	9557094	< 0.5	< 0.5	0.0%	9557108	< 0.5	< 0.5	0.0%				
Ce	9557094	44	43	2.3%	9557108	46	42	9.1%				
Co	9557094	8.2	8.3	1.2%	9557108	12.2	10.9	11.3%				
Cr	9557094	40.4	39.8	1.5%	9557108	53.8	53.8	0.0%				
Cu	9557094	40.4	35.3	13.5%	9557108	49.1	48.3	1.6%				
Fe	9557094	2.22	2.11	5.1%	9557108	2.86	2.78	2.8%				
Ga	9557094	26	27	3.8%	9557108	30	26	14.3%				
In	9557094	< 1	< 1	0.0%	9557108	< 1	< 1	0.0%				
K	9557094	1.33	1.33	0.0%	9557108	1.18	1.16	1.7%				
La	9557094	19	19	0.0%	9557108	20	19	5.1%				
Li	9557094	24	22	8.7%	9557108	27	27	0.0%				
Mg	9557094	0.995	0.938	5.9%	9557108	1.40	1.38	1.4%				
Mn	9557094	389	372	4.5%	9557108	439	425	3.2%				
Mo	9557094	4.57	3.92	15.3%	9557108	3.69	3.14	16.1%				
Na	9557094	3.95	3.89	1.5%	9557108	3.55	3.41	4.0%				
Ni	9557094	20.3	21.3	4.8%	9557108	24.0	23.2	3.4%				
P	9557094	626	610	2.6%	9557108	586	555	5.4%				
S	9557094	0.08	0.08	0.0%	9557108	0.14	0.14	0.0%				
Sb	9557094	< 1	< 1	0.0%	9557108	< 1	< 1	0.0%				
Sc	9557094	6	6	0.0%	9557108	10	10	0.0%				
Se	9557094	< 10	< 10	0.0%	9557108	< 10	< 10	0.0%				
Sn	9557094	< 5	< 5	0.0%	9557108	< 5	< 5	0.0%				
Sr	9557094	755	725	4.1%	9557108	756	724	4.3%				
Ta	9557094	< 10	< 10	0.0%	9557108	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9557094	< 10	< 10	0.0%	9557108	< 10	< 10	0.0%												
Th	9557094	< 5	< 5	0.0%	9557108	< 5	< 5	0.0%												
Ti	9557094	0.218	0.205	6.1%	9557108	0.24	0.24	0.0%												
Tl	9557094	< 5	< 5	0.0%	9557108	< 5	< 5	0.0%												
V	9557094	54.4	54.8	0.7%	9557108	81.8	78.1	4.6%												
W	9557094	2	< 1		9557108	2	1													
Y	9557094	9	9	0.0%	9557108	9	9	0.0%												
Zn	9557094	49.7	45.8	8.2%	9557108	61.1	63.1	3.2%												
Zr	9557094	88	86	2.3%	9557108	80	76	5.1%												

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2																
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD													
Pb	9557094	11.1	11.1	0.0%	9557108	9.60	9.54	0.6%													
Rb	9557094	42.2	43.1	2.1%	9557108	44.4	44.1	0.7%													
U	9557094	0.915	0.881	3.8%	9557108	1.22	1.13	7.7%													

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2																
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD													
Au	9557109	0.053	0.034		9557108	0.011	0.002														



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)									
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits						
Al	10.95	11.35	104%	90% - 110%	8.17	8.43	103%	90% - 110%						
As					26	24	91%	90% - 110%						
Ba	340	342	101%	90% - 110%	540	534	99%	90% - 110%						
Be	2.6	2.6	102%	90% - 110%	4.0	3.9	97%	90% - 110%						
Ca	5.72	5.64	99%	90% - 110%	0.907	0.88	97%	90% - 110%						
Ce	122	122	100%	90% - 110%	98	106	108%	90% - 110%						
Cr					60.3	60.4	100%	90% - 110%						
Cu					150	156	104%	90% - 110%						
Fe	4.34	4.28	99%	90% - 110%	3.77	3.72	99%	90% - 110%						
Ga	35	37.3	106%	90% - 110%										
K	1.37	1.49	109%	90% - 110%										
La	58	53	92%	90% - 110%	44	43	97%	90% - 110%						
Li	37	41	112%	90% - 110%	47	50	107%	90% - 110%						
Mg	0.325	0.306	94%	90% - 110%	1.10	1.08	98%	90% - 110%						
Mn					780	757	97%	90% - 110%						
Mo					14	14	98%	90% - 110%						
Na	5.267	5.44	103%	90% - 110%	1.624	1.74	107%	90% - 110%						
Ni					32	31	98%	90% - 110%						
P					750	794	106%	90% - 110%						
Sc					12	13	106%	90% - 110%						
Sr	1191	1210	102%	90% - 110%	144	155	108%	90% - 110%						
Ti	0.172	0.174	101%	90% - 110%	0.53	0.48	90%	90% - 110%						
V					77	80	104%	90% - 110%						
W					5	6	112%	90% - 110%						
Y	119	123	103%	90% - 110%										
Zn	93	92	99%	90% - 110%	130	117	90%	90% - 110%						

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)									
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits						
Pb	10	10	98%	90% - 110%	31	32	103%	90% - 110%						
Rb	55	60	110%	90% - 110%	143	157	110%	90% - 110%						



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

U	0.8	0.7	82%	90% - 110%	5.7	5.2	90%	90% - 110%									
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																	
	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)												
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Au	2.01	2.21	110%	90% - 110%	6.56	7.18	110%	90% - 110%									



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00322  
 SAMPLING SITE:

AGAT WORK ORDER: 18B386839  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00329

AGAT WORK ORDER: 18B388310

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 02, 2018

PAGES (INCLUDING COVER): 20

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 20, 2018      DATE RECEIVED: Sep 20, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72185 (9566574)		2.21
A72186 (9566575)		0.07
A72187 (9566576)		1.08
A72188 (9566577)		2.02
A72189 (9566578)		2.13
A72190 (9566579)		3.12
A72191 (9566580)		0.87
A72192 (9566581)		1.06
A72193 (9566582)		0.74
A72194 (9566583)		1.34
A72195 (9566584)		0.74
A72196 (9566585)		1.19
A72197 (9566586)		1.82
A72198 (9566587)		1.82
A72199 (9566588)		1.37
A72200 (9566589)		1.79
A72201 (9566590)		2.02
A72202 (9566591)		2.27
A72203 (9566592)		1.54
A72204 (9566593)		1.49
A72205 (9566594)		1.93
A72206 (9566595)		0.07
A72207 (9566596)		2.10
A72208 (9566597)		1.99
A72209 (9566598)		1.74
A72210 (9566599)		1.88
A72211 (9566600)		1.84
A72212 (9566601)		1.27
A72213 (9566602)		2.07
A72214 (9566603)		1.79
A72215 (9566604)		1.97

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(200-) Sample Login Weight

DATE SAMPLED: Sep 20, 2018      DATE RECEIVED: Sep 20, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72216 (9566605)		1.74
A72217 (9566606)		1.63
A72218 (9566607)		1.63
A72219 (9566608)		1.11

Comments: RDL - Reported Detection Limit

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## Certificate of Analysis

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PROJECT: AGAT00329

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018							DATE REPORTED: Nov 02, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72185 (9566574)	<0.5	7.61	<1	165	1.3	<1	5.91	<0.5	9	43.6	44.1	89.8	9.69	37	
A72186 (9566575)	<0.5	7.36	3	191	1.7	2	6.27	<0.5	20	41.7	173	106	7.59	38	
A72187 (9566576)	<0.5	7.55	<1	298	1.1	<1	4.66	<0.5	8	47.6	38.2	299	9.17	36	
A72188 (9566577)	<0.5	7.62	<1	121	1.0	8	4.81	<0.5	8	44.3	40.5	130	10.3	36	
A72189 (9566578)	<0.5	7.36	<1	152	1.5	5	4.30	<0.5	9	44.3	34.0	116	9.46	39	
A72190 (9566579)	<0.5	7.22	<1	81	1.4	4	5.36	<0.5	8	44.5	40.0	144	9.93	38	
A72191 (9566580)	<0.5	5.69	<1	185	0.9	2	9.26	<0.5	7	35.9	37.1	199	6.98	27	
A72192 (9566581)	<0.5	0.12	<1	15	<0.5	<1	30.9	<0.5	<1	1.0	4.2	1.0	0.19	11	
A72193 (9566582)	<0.5	7.70	<1	135	1.1	2	5.50	<0.5	10	47.7	44.4	219	9.08	35	
A72194 (9566583)	<0.5	7.41	<1	174	0.6	4	7.40	<0.5	5	42.7	118	84.3	8.58	32	
A72195 (9566584)	<0.5	7.72	<1	193	0.8	1	8.80	<0.5	8	40.8	46.4	163	9.89	34	
A72196 (9566585)	<0.5	7.27	<1	246	0.6	<1	6.63	<0.5	8	50.4	110	107	8.76	30	
A72197 (9566586)	<0.5	7.19	<1	203	<0.5	<1	7.50	<0.5	5	52.7	121	146	11.6	34	
A72198 (9566587)	<0.5	7.12	<1	199	<0.5	<1	7.44	<0.5	5	52.5	118	151	11.5	34	
A72199 (9566588)	<0.5	7.09	<1	161	1.1	<1	7.60	<0.5	4	54.2	112	235	11.9	33	
A72200 (9566589)	<0.5	7.28	<1	140	<0.5	<1	7.37	<0.5	4	49.5	123	130	12.0	33	
A72201 (9566590)	<0.5	6.79	<1	83	<0.5	<1	7.75	<0.5	4	48.6	107	223	12.9	36	
A72202 (9566591)	<0.5	7.26	<1	233	0.5	<1	7.25	<0.5	4	50.1	122	89.0	10.5	33	
A72203 (9566592)	<0.5	6.92	<1	405	0.5	1	9.02	<0.5	4	48.4	101	154	10.5	33	
A72204 (9566593)	<0.5	7.56	<1	245	0.6	<1	7.04	<0.5	4	41.0	106	99.6	7.53	31	
A72205 (9566594)	<0.5	7.38	<1	358	<0.5	<1	7.24	<0.5	3	40.5	107	49.7	8.11	31	
A72206 (9566595)	<0.5	7.39	<1	190	1.5	6	6.26	<0.5	19	37.0	152	106	7.57	33	
A72207 (9566596)	<0.5	7.16	<1	211	1.3	<1	6.65	<0.5	4	41.5	116	97.2	7.25	32	
A72208 (9566597)	<0.5	7.43	<1	233	0.6	<1	6.51	<0.5	4	42.5	108	157	7.42	32	
A72209 (9566598)	<0.5	7.40	<1	53	0.5	<1	6.29	<0.5	4	40.2	113	125	7.48	33	
A72210 (9566599)	<0.5	7.48	<1	52	0.6	<1	6.45	<0.5	4	42.4	108	86.3	7.56	31	
A72211 (9566600)	<0.5	7.48	<1	55	0.5	<1	6.65	<0.5	4	43.7	107	180	7.61	34	
A72212 (9566601)	<0.5	0.15	2	17	<0.5	<1	30.4	<0.5	<1	1.1	4.6	<0.5	0.21	12	
A72213 (9566602)	<0.5	7.28	<1	65	<0.5	<1	6.11	<0.5	4	39.9	112	192	7.64	33	
A72214 (9566603)	<0.5	7.75	<1	142	0.5	3	5.92	<0.5	4	42.2	122	52.4	7.77	32	
A72215 (9566604)	<0.5	7.57	<1	89	0.7	1	6.33	<0.5	4	42.8	118	117	7.75	37	
A72216 (9566605)	<0.5	7.21	<1	131	0.8	<1	6.57	<0.5	4	42.9	118	106	7.65	33	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.01	5	
A72217 (9566606)	<0.5	7.48	<1	171	0.6	<1	6.58	<0.5	4	40.1	116	83.2	7.86	32	
A72218 (9566607)	<0.5	7.36	<1	171	0.6	<1	6.26	<0.5	4	42.7	124	75.0	7.68	35	
A72219 (9566608)	<0.5	7.59	<1	114	0.8	3	6.12	<0.5	4	41.6	116	160	7.98	33	

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### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72185 (9566574)	<1	0.50	4	20	3.56	2010	3.8	1.80	57.2	438	<20	<50	0.17	3	
A72186 (9566575)	<1	0.43	9	10	4.19	1330	1.0	2.30	113	933	<20	<50	0.08	1	
A72187 (9566576)	<1	0.81	3	24	3.32	1530	3.4	1.88	47.0	376	<20	<50	0.73	1	
A72188 (9566577)	<1	0.53	3	19	3.90	1650	2.9	2.21	47.2	388	<20	<50	0.48	<1	
A72189 (9566578)	<1	0.62	3	22	3.82	1500	3.7	2.10	45.9	386	<20	<50	0.43	<1	
A72190 (9566579)	<1	0.41	3	18	3.63	1820	3.1	1.74	50.5	357	<20	<50	0.60	2	
A72191 (9566580)	<1	0.45	4	13	2.02	1620	4.6	0.83	37.1	308	<20	<50	0.92	3	
A72192 (9566581)	<1	0.02	2	1	2.07	65	1.9	0.05	1.0	92	<20	<50	<0.01	<1	
A72193 (9566582)	<1	0.43	4	24	3.31	1860	2.8	1.91	60.9	394	<20	<50	0.84	<1	
A72194 (9566583)	<1	0.51	3	23	4.35	2040	2.7	1.09	87.6	178	<20	<50	0.22	1	
A72195 (9566584)	<1	0.45	4	15	3.21	2380	3.9	0.89	50.6	353	<20	<50	0.69	<1	
A72196 (9566585)	<1	0.42	4	16	3.47	2170	2.7	1.33	99.0	266	<20	<50	0.35	<1	
A72197 (9566586)	<1	0.41	3	19	4.03	3240	2.4	1.01	96.0	160	<20	<50	0.43	<1	
A72198 (9566587)	<1	0.41	3	20	4.03	3260	2.4	1.00	92.9	150	<20	<50	0.45	<1	
A72199 (9566588)	<1	0.50	3	20	4.04	2910	2.8	1.05	96.7	199	<20	<50	0.61	<1	
A72200 (9566589)	<1	0.39	3	16	4.13	2910	2.6	1.14	93.7	175	<20	<50	0.30	4	
A72201 (9566590)	<1	0.34	3	15	4.25	3290	3.3	0.88	85.4	177	<20	<50	0.55	2	
A72202 (9566591)	<1	0.51	3	17	4.44	2950	3.2	0.94	95.2	185	<20	<50	0.15	<1	
A72203 (9566592)	<1	0.63	3	11	3.60	3270	3.2	0.68	93.3	204	<20	<50	0.34	1	
A72204 (9566593)	<1	0.56	2	9	4.27	1470	2.3	1.87	85.9	185	<20	<50	0.06	<1	
A72205 (9566594)	<1	0.66	3	10	4.24	1820	1.9	1.26	87.5	200	<20	<50	0.05	4	
A72206 (9566595)	<1	0.43	8	10	4.19	1330	1.5	2.31	109	878	<20	<50	0.08	2	
A72207 (9566596)	<1	0.59	2	23	4.47	1320	1.6	1.67	82.9	160	<20	<50	0.11	<1	
A72208 (9566597)	<1	0.61	2	10	4.34	1440	2.0	1.75	82.3	193	<20	<50	0.15	1	
A72209 (9566598)	<1	0.27	2	16	4.82	1090	2.2	1.88	77.7	184	<20	<50	0.15	1	
A72210 (9566599)	<1	0.30	2	17	4.99	1130	1.9	1.90	84.2	190	<20	<50	0.06	<1	
A72211 (9566600)	<1	0.30	2	17	4.90	1180	1.5	2.03	82.1	226	<20	<50	0.20	3	
A72212 (9566601)	<1	0.02	3	1	2.42	68	2.2	0.06	1.9	88	<20	<50	0.01	<1	
A72213 (9566602)	<1	0.33	2	16	4.79	1170	4.6	1.93	82.8	205	<20	<50	0.16	<1	
A72214 (9566603)	<1	0.73	2	34	5.12	1350	4.0	1.97	88.6	201	<20	<50	0.12	3	
A72215 (9566604)	<1	0.37	3	19	5.05	1260	5.0	2.08	91.8	209	<20	<50	0.08	<1	
A72216 (9566605)	<1	0.60	2	20	4.61	1300	4.6	1.87	81.2	190	<20	<50	0.13	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018		DATE REPORTED: Nov 02, 2018		SAMPLE TYPE: Drill Core										
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1
A72217 (9566606)	<1	0.65	2	19	4.85	1390	5.6	1.89	82.4	166	<20	<50	0.03	<1	
A72218 (9566607)	<1	0.63	2	18	4.74	1370	5.3	1.83	89.2	170	<20	<50	0.03	<1	
A72219 (9566608)	<1	0.78	2	19	4.74	1360	5.3	1.90	80.1	210	<20	<50	0.11	<1	

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CLIENT NAME: GOLDCORP BORDEN LIMITED

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### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72185 (9566574)	45	<10	<5	134	<10	<10	<5	0.76	<5	<50	332	3	26	104	
A72186 (9566575)	35	<10	<5	244	<10	<10	<5	0.86	<5	<50	244	3	22	87.0	
A72187 (9566576)	47	<10	<5	158	<10	<10	<5	0.76	<5	<50	342	3	25	99.4	
A72188 (9566577)	48	<10	<5	121	<10	<10	<5	0.79	<5	<50	351	4	27	105	
A72189 (9566578)	46	<10	<5	108	<10	<10	<5	0.73	<5	<50	343	4	27	104	
A72190 (9566579)	47	<10	<5	97	<10	<10	<5	0.74	<5	<50	342	5	26	99.1	
A72191 (9566580)	36	<10	<5	119	<10	<10	<5	0.57	<5	<50	253	5	20	70.9	
A72192 (9566581)	<1	<10	<5	64	<10	<10	<5	0.01	<5	<50	3.5	<1	2	3.5	
A72193 (9566582)	43	<10	<5	132	<10	<10	<5	0.69	<5	<50	304	4	23	150	
A72194 (9566583)	44	<10	<5	90	<10	<10	<5	0.43	<5	<50	251	3	16	161	
A72195 (9566584)	47	<10	<5	121	<10	<10	<5	0.71	<5	<50	335	5	27	108	
A72196 (9566585)	37	<10	<5	101	<10	<10	<5	0.38	<5	<50	202	4	15	276	
A72197 (9566586)	40	<10	<5	63	<10	<10	<5	0.38	<5	<50	227	2	15	210	
A72198 (9566587)	40	<10	<5	62	<10	<10	<5	0.37	<5	<50	221	4	15	217	
A72199 (9566588)	41	<10	<5	59	<10	<10	<5	0.39	<5	<50	229	3	16	194	
A72200 (9566589)	41	<10	<5	49	<10	<10	<5	0.41	<5	<50	228	2	15	119	
A72201 (9566590)	39	<10	<5	24	<10	<10	<5	0.38	<5	<50	214	4	15	135	
A72202 (9566591)	43	<10	<5	62	<10	<10	<5	0.40	<5	<50	235	2	16	87.2	
A72203 (9566592)	41	<10	<5	80	<10	<10	<5	0.38	<5	<50	221	3	17	93.4	
A72204 (9566593)	43	<10	<5	184	<10	<10	<5	0.41	<5	<50	238	3	15	81.3	
A72205 (9566594)	43	<10	<5	125	<10	<10	<5	0.41	<5	<50	237	3	15	73.9	
A72206 (9566595)	32	<10	<5	244	<10	<10	<5	0.88	<5	<50	225	4	21	86.3	
A72207 (9566596)	45	<10	<5	137	<10	<10	<5	0.40	<5	<50	242	2	16	70.9	
A72208 (9566597)	44	<10	<5	157	<10	<10	<5	0.41	<5	<50	240	4	16	82.6	
A72209 (9566598)	43	<10	<5	144	<10	<10	<5	0.41	<5	<50	238	4	15	112	
A72210 (9566599)	45	<10	<5	136	<10	<10	<5	0.42	<5	<50	246	3	16	85.0	
A72211 (9566600)	45	<10	<5	139	<10	<10	<5	0.42	<5	<50	250	3	16	58.2	
A72212 (9566601)	<1	<10	<5	65	<10	<10	<5	0.01	<5	<50	3.8	<1	2	4.7	
A72213 (9566602)	42	<10	<5	171	<10	<10	<5	0.42	<5	<50	237	2	16	72.5	
A72214 (9566603)	45	<10	<5	124	<10	<10	<5	0.43	<5	<50	251	3	16	59.6	
A72215 (9566604)	45	<10	<5	140	<10	<10	<5	0.44	<5	<50	251	2	17	58.8	
A72216 (9566605)	44	<10	<5	104	<10	<10	<5	0.42	<5	<50	241	4	16	69.2	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
A72217 (9566606)		45	<10	<5	134	<10	<10	<5	0.43	<5	<50	246	3	16	65.8
A72218 (9566607)		45	<10	<5	130	<10	<10	<5	0.41	<5	<50	248	3	16	63.3
A72219 (9566608)		45	<10	<5	103	<10	<10	<5	0.44	<5	<50	252	2	16	56.7

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018      DATE RECEIVED: Sep 20, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Zr
	Unit:	ppm
	RDL:	5
A72185 (9566574)		24
A72186 (9566575)		89
A72187 (9566576)		20
A72188 (9566577)		17
A72189 (9566578)		20
A72190 (9566579)		17
A72191 (9566580)		10
A72192 (9566581)		<5
A72193 (9566582)		20
A72194 (9566583)		10
A72195 (9566584)		12
A72196 (9566585)		22
A72197 (9566586)		13
A72198 (9566587)		12
A72199 (9566588)		19
A72200 (9566589)		12
A72201 (9566590)		11
A72202 (9566591)		11
A72203 (9566592)		9
A72204 (9566593)		8
A72205 (9566594)		7
A72206 (9566595)		85
A72207 (9566596)		16
A72208 (9566597)		7
A72209 (9566598)		9
A72210 (9566599)		9
A72211 (9566600)		11
A72212 (9566601)		<5
A72213 (9566602)		9
A72214 (9566603)		11
A72215 (9566604)		11
A72216 (9566605)		12

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018	DATE REPORTED: Nov 02, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Zr
Unit:	ppm
Sample ID (AGAT ID)	RDL: 5
A72217 (9566606)	10
A72218 (9566607)	10
A72219 (9566608)	12

Comments: RDL - Reported Detection Limit  
9566574-9566608 As, Sb values may be low due to digestion losses.

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## Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 20, 2018      DATE RECEIVED: Sep 20, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A72185 (9566574)				0.002
A72186 (9566575)				0.33
A72187 (9566576)				0.033
A72188 (9566577)				0.032
A72189 (9566578)				0.010
A72190 (9566579)				0.011
A72191 (9566580)				0.038
A72192 (9566581)				0.001
A72193 (9566582)				0.015
A72194 (9566583)				0.023
A72195 (9566584)				0.033
A72196 (9566585)				0.004
A72197 (9566586)				0.006
A72198 (9566587)				0.007
A72199 (9566588)				0.009
A72200 (9566589)				0.004
A72201 (9566590)				0.007
A72202 (9566591)				0.007
A72203 (9566592)				0.006
A72204 (9566593)				0.004
A72205 (9566594)				0.007
A72206 (9566595)				0.348
A72207 (9566596)				0.002
A72208 (9566597)				0.001
A72209 (9566598)				<0.001
A72210 (9566599)				0.001
A72211 (9566600)				0.002
A72212 (9566601)				<0.001
A72213 (9566602)				<0.001
A72214 (9566603)				0.005
A72215 (9566604)				0.002
A72216 (9566605)				0.005

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 20, 2018	DATE RECEIVED: Sep 20, 2018	DATE REPORTED: Nov 02, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72217 (9566606)			0.003
A72218 (9566607)			0.003
A72219 (9566608)			0.002

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 20, 2018      DATE RECEIVED: Sep 20, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72185 (9566574)		82
A72204 (9566593)		78

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 20, 2018

DATE RECEIVED: Sep 20, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72185 (9566574)	98

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9566574	< 0.5	< 0.5	0.0%	9566588	< 0.5	< 0.5	0.0%	9566599	< 0.5	< 0.5	0.0%				
Al	9566574	7.61	7.84	3.0%	9566588	7.09	7.09	0.0%	9566599	7.48	7.67	2.5%				
As	9566574	< 1	< 1	0.0%	9566588	< 1	< 1	0.0%	9566599	< 1	< 1	0.0%				
Ba	9566574	165	164	0.6%	9566588	161	158	1.9%	9566599	52	53	1.9%				
Be	9566574	1.3	0.9		9566588	1.1	1.1	0.0%	9566599	0.55	0.55	0.0%				
Bi	9566574	< 1	< 1	0.0%	9566588	< 1	< 1	0.0%	9566599	< 1	< 1	0.0%				
Ca	9566574	5.91	6.21	5.0%	9566588	7.60	7.47	1.7%	9566599	6.45	6.79	5.1%				
Cd	9566574	< 0.5	< 0.5	0.0%	9566588	< 0.5	< 0.5	0.0%	9566599	< 0.5	< 0.5	0.0%				
Ce	9566574	9	9	0.0%	9566588	4	5	22.2%	9566599	4	4	0.0%				
Co	9566574	43.6	42.6	2.3%	9566588	54.2	54.4	0.4%	9566599	42.4	42.4	0.0%				
Cr	9566574	44.1	44.2	0.2%	9566588	112	115	2.6%	9566599	108	123	13.0%				
Cu	9566574	89.8	85.7	4.7%	9566588	235	233	0.9%	9566599	86.3	89.2	3.3%				
Fe	9566574	9.69	10.1	4.1%	9566588	11.9	11.7	1.7%	9566599	7.56	7.73	2.2%				
Ga	9566574	37	39	5.3%	9566588	33	35	5.9%	9566599	31	31	0.0%				
In	9566574	< 1	< 1	0.0%	9566588	< 1	< 1	0.0%	9566599	< 1	< 1	0.0%				
K	9566574	0.505	0.508	0.6%	9566588	0.496	0.490	1.2%	9566599	0.301	0.311	3.3%				
La	9566574	4	4	0.0%	9566588	3	3	0.0%	9566599	2	2	0.0%				
Li	9566574	20	21	4.9%	9566588	20	20	0.0%	9566599	17	18	5.7%				
Mg	9566574	3.56	3.69	3.6%	9566588	4.04	4.00	1.0%	9566599	4.99	5.13	2.8%				
Mn	9566574	2010	2090	3.9%	9566588	2910	2920	0.3%	9566599	1130	1150	1.8%				
Mo	9566574	3.84	4.00	4.1%	9566588	2.8	2.9	3.5%	9566599	1.93	2.52	26.5%				
Na	9566574	1.80	1.87	3.8%	9566588	1.05	1.03	1.9%	9566599	1.90	2.01	5.6%				
Ni	9566574	57.2	55.6	2.8%	9566588	96.7	97.8	1.1%	9566599	84.2	83.0	1.4%				
P	9566574	438	469	6.8%	9566588	199	202	1.5%	9566599	190	188	1.1%				
Pb	9566574	< 20	< 20	0.0%	9566588	< 20	< 20	0.0%	9566599	< 20	< 20	0.0%				
Rb	9566574	< 50	< 50	0.0%	9566588	< 50	< 50	0.0%	9566599	< 50	< 50	0.0%				
S	9566574	0.17	0.17	0.0%	9566588	0.61	0.61	0.0%	9566599	0.06	0.06	0.0%				
Sb	9566574	3	< 1		9566588	< 1	< 1	0.0%	9566599	< 1	3					
Sc	9566574	45	47	4.3%	9566588	41	40	2.5%	9566599	45	45	0.0%				
Se	9566574	< 10	< 10	0.0%	9566588	< 10	< 10	0.0%	9566599	< 10	< 10	0.0%				
Sn	9566574	< 5	< 5	0.0%	9566588	< 5	< 5	0.0%	9566599	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9566574	134	137	2.2%	9566588	59	58	1.7%	9566599	136	143	5.0%				
Ta	9566574	< 10	< 10	0.0%	9566588	< 10	< 10	0.0%	9566599	< 10	< 10	0.0%				
Te	9566574	< 10	< 10	0.0%	9566588	< 10	< 10	0.0%	9566599	< 10	< 10	0.0%				
Th	9566574	< 5	< 5	0.0%	9566588	< 5	< 5	0.0%	9566599	< 5	< 5	0.0%				
Ti	9566574	0.762	0.798	4.6%	9566588	0.39	0.39	0.0%	9566599	0.42	0.43	2.4%				
Tl	9566574	< 5	< 5	0.0%	9566588	< 5	< 5	0.0%	9566599	< 5	< 5	0.0%				
U	9566574	< 50	< 50	0.0%	9566588	< 50	< 50	0.0%	9566599	< 50	< 50	0.0%				
V	9566574	332	344	3.6%	9566588	229	227	0.9%	9566599	246	249	1.2%				
W	9566574	3	2		9566588	3	5		9566599	3	3	0.0%				
Y	9566574	26	27	3.8%	9566588	16	16	0.0%	9566599	16	16	0.0%				
Zn	9566574	104	104	0.0%	9566588	194	193	0.5%	9566599	85.0	86.2	1.4%				
Zr	9566574	24	24	0.0%	9566588	19	21	10.0%	9566599	9	10	10.5%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9566574	0.002	0.001		9566588	0.009	0.009	0.0%	9566599	0.001	0.001	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.93	100%	90% - 110%	8.17	8.24	101%	90% - 110%								
As					26	27	103%	90% - 110%								
Ba	340	331	97%	90% - 110%	540	510	94%	90% - 110%								
Be	2.6	2.6	99%	90% - 110%	4.0	3.7	94%	90% - 110%								
Ca	5.72	5.46	95%	90% - 110%	0.907	0.878	97%	90% - 110%								
Ce	122	113	93%	90% - 110%	98	91	93%	90% - 110%								
Cr					60.3	58	96%	90% - 110%								
Cu	7	6	80%	90% - 110%	150	152	101%	90% - 110%								
Fe	4.34	4.07	94%	90% - 110%	3.77	3.68	98%	90% - 110%								
Ga	35	33	93%	90% - 110%												
K	1.37	1.41	103%	90% - 110%												
La	58	53	91%	90% - 110%	44	40	90%	90% - 110%								
Li	37	38	104%	90% - 110%	47	46	99%	90% - 110%								
Mg	0.325	0.305	94%	90% - 110%	1.10	1.07	97%	90% - 110%								
Mn					780	765	98%	90% - 110%								
Mo					14	12	87%	90% - 110%								
Na	5.267	5.379	102%	90% - 110%	1.624	1.659	102%	90% - 110%								
Ni					32	34	105%	90% - 110%								
P					750	741	99%	90% - 110%								
Pb					31	32	104%	90% - 110%								
Sc					12	12	97%	90% - 110%								
Sr	1191	1165	98%	90% - 110%	144	147	102%	90% - 110%								
Ta					1.9	2.4	125%	90% - 110%								
Ti	0.172	0.17	99%	90% - 110%	0.53	0.46	88%	90% - 110%								
V					77	74	96%	90% - 110%								
W					5	5	96%	90% - 110%								
Y	119	116	97%	90% - 110%												
Zn	93	90	97%	90% - 110%	130	123	95%	90% - 110%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GSP7L)				CRM #2 (ref.WW07)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				





**AGAT** Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B388310

PROJECT: AGAT00329

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Au	0.709	0.783	110%	90% - 110%	6.56	6.53	100%	90% - 110%	2.01	1.97	98%	90% - 110%				
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## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00329  
 SAMPLING SITE:

AGAT WORK ORDER: 18B388310  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00343

AGAT WORK ORDER: 18B389025

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 20, 2018

PAGES (INCLUDING COVER): 18

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018      DATE RECEIVED: Sep 24, 2018      DATE REPORTED: Oct 20, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72257 (9574150)		2.34
A72258 (9574151)		2.34
A72259 (9574152)		2.20
A72260 (9574153)		2.10
A72261 (9574154)		1.10
A72262 (9574155)		0.52
A72263 (9574156)		0.84
A72264 (9574157)		2.45
A72265 (9574158)		2.40
A72266 (9574159)		0.07
A72267 (9574160)		2.40
A72268 (9574161)		2.31
A72269 (9574162)		1.13
A72270 (9574163)		2.06
A72271 (9574164)		1.74
A72272 (9574165)		1.46
A72273 (9574166)		2.43
A72274 (9574167)		2.28
A72275 (9574168)		2.51
A72276 (9574169)		1.82
A72277 (9574170)		1.52
A72278 (9574171)		1.52
A72279 (9574172)		1.50
A72280 (9574173)		2.14
A72281 (9574174)		1.06
A72282 (9574175)		0.95
A72283 (9574176)		1.48
A72284 (9574177)		1.54
A72285 (9574178)		2.74
A72286 (9574179)		0.07
A72287 (9574180)		2.82

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018							DATE REPORTED: Oct 20, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72257 (9574150)	<0.5	7.58	5	90	<0.5	1	7.76	<0.5	4	48.3	312	83.7	7.38	35	
A72258 (9574151)	<0.5	7.49	<1	88	<0.5	<1	8.01	<0.5	4	46.8	284	83.5	7.69	35	
A72259 (9574152)	<0.5	7.60	<1	140	<0.5	<1	8.43	<0.5	5	46.3	163	183	7.92	35	
A72260 (9574153)	<0.5	7.61	<1	101	<0.5	2	8.17	<0.5	5	49.6	242	196	7.60	35	
A72261 (9574154)	<0.5	7.45	<1	114	<0.5	2	8.47	<0.5	4	37.4	205	62.7	7.07	35	
A72262 (9574155)	<0.5	7.13	<1	405	<0.5	<1	7.59	<0.5	4	36.4	100	45.9	6.86	33	
A72263 (9574156)	<0.5	6.86	<1	137	<0.5	2	6.69	<0.5	4	40.5	137	103	7.12	29	
A72264 (9574157)	<0.5	7.11	1	199	<0.5	<1	7.30	<0.5	4	47.4	178	84.3	7.84	34	
A72265 (9574158)	<0.5	7.27	<1	187	<0.5	<1	6.91	<0.5	5	46.7	127	140	7.97	37	
A72266 (9574159)	<0.5	7.44	<1	203	1.0	<1	6.59	<0.5	25	40.9	193	111	7.95	37	
A72267 (9574160)	<0.5	7.17	<1	187	<0.5	<1	6.58	<0.5	5	43.4	126	123	7.72	31	
A72268 (9574161)	<0.5	7.17	<1	200	0.6	<1	6.70	<0.5	6	43.7	107	143	7.71	31	
A72269 (9574162)	<0.5	7.17	<1	150	<0.5	2	7.53	<0.5	5	42.2	111	42.2	7.41	30	
A72270 (9574163)	<0.5	7.02	<1	137	<0.5	<1	7.35	<0.5	4	44.2	119	66.5	7.41	32	
A72271 (9574164)	<0.5	5.80	<1	143	<0.5	<1	5.25	<0.5	4	38.7	130	93.4	5.95	26	
A72272 (9574165)	<0.5	0.10	3	11	<0.5	1	26.6	<0.5	<1	0.9	5.7	<0.5	0.16	10	
A72273 (9574166)	<0.5	5.82	<1	117	<0.5	<1	5.89	<0.5	4	38.3	117	61.9	6.35	31	
A72274 (9574167)	<0.5	7.52	<1	155	<0.5	5	8.33	<0.5	4	42.5	131	108	7.62	35	
A72275 (9574168)	<0.5	8.00	<1	163	<0.5	<1	7.58	<0.5	6	47.7	178	97.5	8.57	34	
A72276 (9574169)	<0.5	7.98	<1	116	<0.5	<1	9.50	<0.5	8	43.2	151	89.0	7.72	33	
A72277 (9574170)	<0.5	5.60	<1	20	<0.5	<1	12.9	<0.5	2	18.8	111	44.0	4.30	28	
A72278 (9574171)	<0.5	5.44	5	20	<0.5	<1	12.4	<0.5	2	19.2	105	44.7	4.13	29	
A72279 (9574172)	<0.5	7.22	<1	92	0.9	<1	10.7	<0.5	4	37.5	133	34.9	6.46	34	
A72280 (9574173)	<0.5	7.48	<1	189	<0.5	<1	7.26	<0.5	5	46.9	162	137	8.10	35	
A72281 (9574174)	<0.5	8.61	<1	251	<0.5	7	7.76	<0.5	5	47.5	169	35.7	8.65	34	
A72282 (9574175)	<0.5	4.04	2	59	<0.5	<1	16.1	<0.5	1	17.2	73.2	22.2	3.56	22	
A72283 (9574176)	<0.5	8.14	<1	210	<0.5	<1	7.35	<0.5	6	47.4	159	114	8.30	33	
A72284 (9574177)	<0.5	7.88	<1	227	<0.5	<1	7.41	<0.5	6	47.6	179	71.3	8.19	34	
A72285 (9574178)	<0.5	8.22	<1	225	<0.5	<1	8.03	<0.5	5	47.5	127	192	8.47	37	
A72286 (9574179)	<0.5	7.99	2	207	1.0	<1	6.85	<0.5	27	41.5	206	117	8.32	41	
A72287 (9574180)	<0.5	7.89	<1	230	<0.5	<1	7.40	<0.5	5	46.4	121	181	8.36	35	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	S % 0.01	Sb ppm 1	Sc ppm 1	Se ppm 10
A72257 (9574150)		<1	0.55	3	9	5.22	1340	2.5	1.26	108	176	0.06	4	55	<10
A72258 (9574151)		<1	0.53	3	9	5.20	1310	2.9	1.29	107	172	0.06	<1	54	<10
A72259 (9574152)		<1	0.73	3	11	4.95	1330	3.3	1.08	88.8	194	0.14	3	53	<10
A72260 (9574153)		<1	0.58	3	11	5.05	1270	3.7	1.23	97.3	258	0.01	2	53	<10
A72261 (9574154)		<1	0.66	3	13	4.94	1140	2.4	1.06	81.7	149	0.06	<1	46	<10
A72262 (9574155)		<1	2.02	3	10	4.58	1080	2.6	0.73	73.9	142	0.05	<1	44	<10
A72263 (9574156)		<1	0.73	3	11	4.67	1240	2.5	1.00	78.7	154	0.06	1	47	<10
A72264 (9574157)		<1	1.08	3	16	5.37	1320	3.7	1.19	90.9	188	0.02	<1	53	<10
A72265 (9574158)		<1	1.14	3	16	5.12	1370	2.2	1.06	81.7	192	0.07	<1	53	<10
A72266 (9574159)		<1	0.44	11	10	4.39	1360	2.6	2.29	108	873	0.09	1	40	<10
A72267 (9574160)		<1	1.21	3	17	4.91	1270	2.4	1.09	79.0	179	0.08	1	48	<10
A72268 (9574161)		<1	1.38	3	20	4.56	1160	2.5	1.13	77.4	171	0.11	<1	50	<10
A72269 (9574162)		<1	1.22	3	20	4.49	1150	1.7	0.78	81.3	209	0.03	<1	49	<10
A72270 (9574163)		<1	1.10	3	17	4.45	1170	2.9	0.82	83.3	172	0.04	1	51	<10
A72271 (9574164)		<1	0.87	2	13	3.72	977	1.9	0.83	72.0	161	0.08	<1	43	<10
A72272 (9574165)		<1	0.02	2	1	1.64	57	1.8	0.04	1.0	72	<0.01	<1	<1	<10
A72273 (9574166)		<1	0.79	3	18	3.88	1010	2.0	0.84	73.0	156	0.05	2	43	<10
A72274 (9574167)		<1	0.98	3	10	4.59	1250	2.3	0.82	79.1	180	0.09	<1	48	<10
A72275 (9574168)		<1	1.21	4	21	5.56	1400	2.1	1.09	89.5	198	0.06	5	54	<10
A72276 (9574169)		<1	0.79	4	16	4.78	1240	2.6	0.83	85.1	195	0.04	1	53	<10
A72277 (9574170)		<1	0.04	2	7	1.86	863	3.8	0.05	47.9	140	0.08	<1	33	<10
A72278 (9574171)		<1	0.04	<2	7	1.80	841	3.9	0.05	47.1	140	0.08	<1	33	<10
A72279 (9574172)		<1	0.64	3	14	3.46	1140	4.1	0.45	72.9	178	0.05	<1	48	<10
A72280 (9574173)		<1	1.17	3	19	5.09	1240	3.4	0.85	83.5	190	0.14	<1	53	<10
A72281 (9574174)		<1	1.42	3	21	5.44	1390	2.9	0.74	89.4	179	0.03	3	55	<10
A72282 (9574175)		<1	0.34	<2	9	1.97	953	2.6	0.21	33.4	156	0.03	2	22	<10
A72283 (9574176)		<1	1.21	3	15	5.33	1390	2.1	1.08	90.0	213	0.14	<1	56	<10
A72284 (9574177)		<1	1.32	3	16	5.13	1290	2.7	0.96	89.1	233	0.06	1	55	<10
A72285 (9574178)		<1	1.23	3	17	5.38	1400	2.8	1.12	93.5	211	0.23	<1	57	<10
A72286 (9574179)		<1	0.47	12	11	4.65	1440	1.2	2.46	114	903	0.10	1	43	<10
A72287 (9574180)		<1	1.27	3	14	5.04	1360	2.3	0.97	88.7	198	0.24	<1	56	<10

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018						DATE REPORTED: Oct 20, 2018				SAMPLE TYPE: Drill Core	
Analyte: Unit: RDL:	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
Sample ID (AGAT ID)	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72257 (9574150)	<5	86	<10	<10	<5	0.40	<5	256	1	18	66.0	8
A72258 (9574151)	<5	87	<10	<10	<5	0.39	<5	252	3	18	64.5	7
A72259 (9574152)	<5	92	<10	<10	<5	0.43	<5	263	2	20	69.7	8
A72260 (9574153)	<5	89	<10	<10	<5	0.42	<5	248	2	20	72.7	13
A72261 (9574154)	<5	128	<10	<10	<5	0.35	<5	222	2	17	57.8	10
A72262 (9574155)	<5	182	<10	<10	<5	0.39	<5	227	3	17	49.0	6
A72263 (9574156)	<5	89	<10	<10	<5	0.38	<5	225	3	16	63.3	6
A72264 (9574157)	<5	98	<10	<10	<5	0.40	<5	255	4	17	68.3	7
A72265 (9574158)	<5	104	<10	10	<5	0.42	<5	261	3	19	74.8	9
A72266 (9574159)	<5	253	<10	<10	<5	0.88	<5	240	4	26	86.9	85
A72267 (9574160)	<5	102	<10	<10	<5	0.41	<5	241	2	17	70.3	7
A72268 (9574161)	<5	95	<10	<10	<5	0.40	<5	253	3	19	72.1	11
A72269 (9574162)	<5	93	<10	<10	<5	0.39	<5	246	2	17	57.7	8
A72270 (9574163)	<5	101	<10	<10	<5	0.40	<5	247	2	18	63.2	8
A72271 (9574164)	<5	79	<10	<10	<5	0.33	<5	210	3	16	53.9	10
A72272 (9574165)	<5	56	<10	<10	<5	<0.01	<5	2.6	<1	2	2.8	<5
A72273 (9574166)	<5	76	<10	<10	<5	0.33	<5	218	3	15	56.0	7
A72274 (9574167)	<5	91	<10	<10	<5	0.41	<5	244	3	18	73.6	8
A72275 (9574168)	<5	88	<10	<10	<5	0.46	<5	264	1	19	79.0	8
A72276 (9574169)	<5	104	<10	<10	<5	0.42	<5	254	4	21	59.4	12
A72277 (9574170)	<5	146	<10	<10	<5	0.27	<5	161	2	11	20.6	<5
A72278 (9574171)	<5	141	<10	<10	<5	0.26	<5	161	2	11	18.7	5
A72279 (9574172)	<5	133	<10	<10	<5	0.38	<5	227	4	23	40.2	14
A72280 (9574173)	<5	85	<10	<10	<5	0.42	<5	255	2	19	70.9	9
A72281 (9574174)	<5	93	<10	<10	<5	0.48	<5	274	3	19	72.5	9
A72282 (9574175)	<5	77	<10	<10	<5	0.23	<5	102	3	11	24.9	<5
A72283 (9574176)	<5	109	<10	<10	<5	0.45	<5	270	3	21	71.1	10
A72284 (9574177)	<5	107	<10	<10	<5	0.44	<5	268	2	20	66.0	10
A72285 (9574178)	<5	94	<10	<10	<5	0.47	<5	281	3	22	69.7	11
A72286 (9574179)	<5	268	<10	<10	<5	0.94	<5	256	5	28	91.2	94
A72287 (9574180)	<5	93	<10	<10	<5	0.47	<5	271	3	21	75.2	10

Certified By:





**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CANADA L4Z 1N9  
TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit  
9574150-9574180 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 24, 2018      DATE RECEIVED: Sep 24, 2018      DATE REPORTED: Oct 20, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72257 (9574150)		0.4	11.9	0.036
A72258 (9574151)		0.4	11.7	0.040
A72259 (9574152)		0.5	15.2	0.046
A72260 (9574153)		0.3	10.3	0.047
A72261 (9574154)		0.5	13.2	0.052
A72262 (9574155)		0.9	55.5	0.051
A72263 (9574156)		0.4	20.4	0.042
A72264 (9574157)		0.3	29.9	0.039
A72265 (9574158)		0.4	33.4	0.044
A72266 (9574159)		2.9	11.3	0.366
A72267 (9574160)		0.6	36.6	0.038
A72268 (9574161)		1.6	54.8	0.053
A72269 (9574162)		0.4	32.2	0.040
A72270 (9574163)		0.4	32.5	0.040
A72271 (9574164)		0.8	39.8	0.080
A72272 (9574165)		0.3	0.8	0.118
A72273 (9574166)		0.8	33.8	0.057
A72274 (9574167)		0.6	18.9	0.035
A72275 (9574168)		0.4	30.2	0.045
A72276 (9574169)		1.0	19.7	0.056
A72277 (9574170)		0.4	1.2	0.030
A72278 (9574171)		0.8	1.2	0.056
A72279 (9574172)		0.7	17.1	0.149
A72280 (9574173)		0.4	30.7	0.036
A72281 (9574174)		0.4	43.4	0.045
A72282 (9574175)		0.2	8.1	0.034
A72283 (9574176)		0.2	30.1	0.045
A72284 (9574177)		0.3	34.0	0.037
A72285 (9574178)		0.5	25.9	0.038
A72286 (9574179)		2.8	10.4	0.355
A72287 (9574180)		0.5	36.2	0.053

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9574150-9574180 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 24, 2018      DATE RECEIVED: Sep 24, 2018      DATE REPORTED: Oct 20, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72257 (9574150)			0.008
A72258 (9574151)			0.006
A72259 (9574152)			0.008
A72260 (9574153)			0.004
A72261 (9574154)			0.006
A72262 (9574155)			0.052
A72263 (9574156)			0.005
A72264 (9574157)			0.005
A72265 (9574158)			0.005
A72266 (9574159)			0.346
A72267 (9574160)			0.007
A72268 (9574161)			0.004
A72269 (9574162)			0.005
A72270 (9574163)			0.041
A72271 (9574164)			0.005
A72272 (9574165)			0.001
A72273 (9574166)			0.006
A72274 (9574167)			0.007
A72275 (9574168)			0.006
A72276 (9574169)			0.005
A72277 (9574170)			0.008
A72278 (9574171)			0.007
A72279 (9574172)			0.007
A72280 (9574173)			0.003
A72281 (9574174)			0.010
A72282 (9574175)			0.013
A72283 (9574176)			0.004
A72284 (9574177)			0.006
A72285 (9574178)			0.007
A72286 (9574179)			0.321
A72287 (9574180)			0.004

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72259 (9574152)		82
A72276 (9574169)		86

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389025

PROJECT: AGAT00343

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CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72257 (9574150)	92

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9574150	< 0.5	< 0.5	0.0%	9574164	< 0.5	< 0.5	0.0%	9574175	< 0.5	< 0.5	0.0%				
Al	9574150	7.58	7.57	0.1%	9574164	5.80	5.79	0.2%	9574175	4.04	3.97	1.7%				
As	9574150	5	< 1		9574164	< 1	< 1	0.0%	9574175	2	1					
Ba	9574150	90	95	5.4%	9574164	143	133	7.2%	9574175	59	59	0.0%				
Be	9574150	< 0.5	< 0.5	0.0%	9574164	< 0.5	< 0.5	0.0%	9574175	< 0.5	< 0.5	0.0%				
Bi	9574150	1	2		9574164	< 1	< 1	0.0%	9574175	< 1	< 1	0.0%				
Ca	9574150	7.76	7.89	1.7%	9574164	5.25	5.35	1.9%	9574175	16.1	15.6	3.2%				
Cd	9574150	< 0.5	< 0.5	0.0%	9574164	< 0.5	< 0.5	0.0%	9574175	< 0.5	< 0.5	0.0%				
Ce	9574150	4	4	0.0%	9574164	4	4	0.0%	9574175	1	1	0.0%				
Co	9574150	48.3	48.3	0.0%	9574164	38.7	38.9	0.5%	9574175	17.2	16.5	4.2%				
Cr	9574150	312	275	12.6%	9574164	130	133	2.3%	9574175	73.2	78.3	6.7%				
Cu	9574150	83.7	90.3	7.6%	9574164	93.4	90.6	3.0%	9574175	22.2	21.2	4.6%				
Fe	9574150	7.38	7.51	1.7%	9574164	5.95	5.92	0.5%	9574175	3.56	3.43	3.7%				
Ga	9574150	35	32	9.0%	9574164	26	31	17.5%	9574175	22	20	9.5%				
In	9574150	< 1	< 1	0.0%	9574164	< 1	< 1	0.0%	9574175	< 1	< 1	0.0%				
K	9574150	0.55	0.54	1.8%	9574164	0.87	0.87	0.0%	9574175	0.34	0.33	3.0%				
La	9574150	3	3	0.0%	9574164	2	2	0.0%	9574175	< 2	< 2	0.0%				
Li	9574150	9	10	10.5%	9574164	13	13	0.0%	9574175	9	8	11.8%				
Mg	9574150	5.22	5.22	0.0%	9574164	3.72	3.70	0.5%	9574175	1.97	1.91	3.1%				
Mn	9574150	1340	1320	1.5%	9574164	977	981	0.4%	9574175	953	941	1.3%				
Mo	9574150	2.5	3.6		9574164	1.93	2.19	12.6%	9574175	2.62	3.46	27.6%				
Na	9574150	1.26	1.28	1.6%	9574164	0.833	0.843	1.2%	9574175	0.207	0.201	2.9%				
Ni	9574150	108	111	2.7%	9574164	72.0	74.0	2.7%	9574175	33.4	33.3	0.3%				
P	9574150	176	177	0.6%	9574164	161	160	0.6%	9574175	156	161	3.2%				
S	9574150	0.06	0.07	15.4%	9574164	0.076	0.074	2.7%	9574175	0.03	0.03	0.0%				
Sb	9574150	4	< 1		9574164	< 1	< 1	0.0%	9574175	2	< 1					
Sc	9574150	55	54	1.8%	9574164	43	43	0.0%	9574175	22	21	4.7%				
Se	9574150	< 10	< 10	0.0%	9574164	< 10	< 10	0.0%	9574175	< 10	< 10	0.0%				
Sn	9574150	< 5	< 5	0.0%	9574164	< 5	< 5	0.0%	9574175	< 5	< 5	0.0%				
Sr	9574150	86	86	0.0%	9574164	79	80	1.3%	9574175	77	76	1.3%				
Ta	9574150	< 10	< 10	0.0%	9574164	< 10	< 10	0.0%	9574175	< 10	< 10	0.0%				





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9574150	< 10	< 10	0.0%	9574164	< 10	< 10	0.0%	9574175	< 10	< 10	0.0%				
Th	9574150	< 5	< 5	0.0%	9574164	< 5	< 5	0.0%	9574175	< 5	< 5	0.0%				
Ti	9574150	0.395	0.393	0.5%	9574164	0.33	0.33	0.0%	9574175	0.23	0.23	0.0%				
Tl	9574150	< 5	< 5	0.0%	9574164	< 5	< 5	0.0%	9574175	< 5	< 5	0.0%				
V	9574150	256	250	2.4%	9574164	210	213	1.4%	9574175	102	99.6	2.4%				
W	9574150	1	3		9574164	3	3	0.0%	9574175	3	2					
Y	9574150	18	18	0.0%	9574164	16	16	0.0%	9574175	11	11	0.0%				
Zn	9574150	66.0	68.7	4.0%	9574164	53.9	51.0	5.5%	9574175	24.9	23.0	7.9%				
Zr	9574150	8	8	0.0%	9574164	10	10	0.0%	9574175	< 5	< 5	0.0%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9574150	0.4	0.4	0.0%	9574164	0.8	0.8	0.0%	9574175	0.2	0.2	0.0%				
Rb	9574150	11.9	12.1	1.7%	9574164	39.8	38.5	3.3%	9574175	8.11	7.54	7.3%				
U	9574150	0.0364	0.0373	2.4%	9574164	0.0796	0.0788	1.0%	9574175	0.0343	0.0382	10.8%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9574150	0.008	0.010		9574164	0.005	0.006	18.2%	9574175	0.013	0.017	26.7%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GTS-2a)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.73	98%	90% - 110%	6.96	6.94	100%	90% - 110%								
As					124	131	105%	90% - 110%								
Ba	340	332	98%	90% - 110%	186	196	105%	90% - 110%								
Be	2.6	3	115%	90% - 110%												
Ca	5.72	5.74	100%	90% - 110%	4.01	4.05	101%	90% - 110%								
Ce	122	133	109%	90% - 110%	24	26	107%	90% - 110%								
Co					22.1	22.3	101%	90% - 110%								
Cu	7	6	86%	90% - 110%	88.6	89	100%	90% - 110%								
Fe	4.34	4.32	100%	90% - 110%	7.56	7.63	101%	90% - 110%								
Ga	35	37	106%	90% - 110%												
K	1.37	1.4	103%	90% - 110%	2.021	2.048	101%	90% - 110%								
La	58	63	109%	90% - 110%												
Li	37	40	109%	90% - 110%												
Mg	0.325	0.309	95%	90% - 110%	2.412	2.486	103%	90% - 110%								
Mn					1510	1502	99%	90% - 110%								
Na	5.267	5.262	100%	90% - 110%	0.617	0.623	101%	90% - 110%								
Ni					77.1	74.2	96%	90% - 110%								
P					892	897	101%	90% - 110%								
S					0.348	0.375	108%	90% - 110%								
Sc	1.1	0.9	83%	90% - 110%												
Sr	1191	1205	101%	90% - 110%	92.8	91.8	99%	90% - 110%								
Ti	0.172	0.173	100%	90% - 110%												
V	8	6	71%	90% - 110%												
Y	119	126	105%	90% - 110%												
Zn	93	93	100%	90% - 110%	208	210	101%	90% - 110%								

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW07)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Pb	10	9	88%	90% - 110%												
Rb	55	52	95%	90% - 110%												
U	0.8	0.6	72%	90% - 110%												



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.16	107%	90% - 110%	6.56	6.06	92%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00343  
 SAMPLING SITE:

AGAT WORK ORDER: 18B389025  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00344

AGAT WORK ORDER: 18B389027

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 20, 2018

PAGES (INCLUDING COVER): 20

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018      DATE RECEIVED: Sep 24, 2018      DATE REPORTED: Oct 20, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72220 (9574181)		2.72
A72221 (9574182)		1.91
A72222 (9574183)		1.67
A72223 (9574184)		1.81
A72224 (9574185)		1.95
A72225 (9574186)		0.86
A72226 (9574187)		0.07
A72227 (9574188)		1.42
A72228 (9574189)		1.35
A72229 (9574190)		1.99
A72230 (9574191)		1.82
A72231 (9574192)		1.56
A72232 (9574193)		1.67
A72233 (9574194)		1.25
A72234 (9574195)		1.19
A72235 (9574196)		1.74
A72236 (9574197)		2.06
A72237 (9574198)		1.84
A72238 (9574199)		1.84
A72239 (9574200)		1.59
A72240 (9574201)		1.84
A72241 (9574202)		1.76
A72242 (9574203)		1.93
A72243 (9574204)		1.67
A72244 (9574205)		1.79
A72245 (9574206)		1.90
A72246 (9574207)		0.07
A72247 (9574208)		1.50
A72248 (9574209)		0.62
A72249 (9574210)		1.45
A72250 (9574211)		1.82

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018	DATE REPORTED: Oct 20, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72251 (9574212)		1.88
A72252 (9574213)		1.49
A72253 (9574214)		1.14
A72254 (9574215)		1.20
A72255 (9574216)		0.86
A72256 (9574217)		1.51

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72220 (9574181)		<0.5	7.46	<1	66	<0.5	2	6.55	<0.5	4	38.1	196	103	7.28	32
A72221 (9574182)		<0.5	7.53	<1	42	<0.5	1	7.05	<0.5	4	39.9	174	68.9	7.86	36
A72222 (9574183)		<0.5	7.46	1	63	<0.5	3	6.84	<0.5	3	38.3	177	81.7	7.13	33
A72223 (9574184)		<0.5	7.21	<1	83	0.5	<1	6.28	<0.5	4	38.8	219	45.2	7.40	32
A72224 (9574185)		<0.5	7.56	<1	36	<0.5	4	7.07	<0.5	4	38.4	183	62.7	7.54	31
A72225 (9574186)		<0.5	7.85	<1	61	<0.5	<1	8.74	<0.5	4	49.0	183	2140	8.41	33
A72226 (9574187)		<0.5	7.24	<1	190	1.3	<1	6.20	<0.5	21	37.7	194	112	7.74	37
A72227 (9574188)		<0.5	8.38	<1	28	0.6	2	8.55	<0.5	5	44.2	166	169	9.70	34
A72228 (9574189)		<0.5	7.47	<1	50	<0.5	6	6.48	<0.5	4	42.9	166	25.0	8.48	34
A72229 (9574190)		<0.5	7.45	<1	98	<0.5	<1	6.59	<0.5	4	40.7	148	33.3	7.89	31
A72230 (9574191)		<0.5	7.25	<1	93	0.5	<1	6.58	<0.5	4	37.0	170	28.0	7.26	31
A72231 (9574192)		<0.5	7.28	<1	15	<0.5	<1	6.37	<0.5	5	39.6	152	90.0	8.41	28
A72232 (9574193)		<0.5	0.14	2	13	<0.5	<1	31.2	<0.5	<1	1.1	6.3	2.1	0.21	13
A72233 (9574194)		<0.5	8.05	<1	8	<0.5	<1	10.5	<0.5	4	29.9	134	9.2	7.58	33
A72234 (9574195)		<0.5	8.58	<1	16	<0.5	5	7.04	<0.5	4	40.2	167	112	8.60	35
A72235 (9574196)		<0.5	7.37	<1	19	<0.5	<1	8.40	<0.5	4	32.1	167	20.1	7.03	34
A72236 (9574197)		<0.5	7.49	<1	45	<0.5	2	7.50	<0.5	4	41.3	154	81.8	8.09	32
A72237 (9574198)		<0.5	7.16	<1	57	<0.5	<1	6.78	<0.5	4	36.1	145	80.7	7.53	33
A72238 (9574199)		<0.5	7.27	1	57	<0.5	<1	6.71	<0.5	4	38.3	151	80.4	7.60	32
A72239 (9574200)		<0.5	7.16	<1	34	<0.5	<1	7.55	<0.5	4	33.2	147	53.7	7.62	31
A72240 (9574201)		<0.5	7.43	<1	121	<0.5	<1	7.25	<0.5	4	37.0	154	145	7.32	31
A72241 (9574202)		<0.5	7.52	<1	42	<0.5	<1	7.75	<0.5	4	34.3	159	67.8	7.42	31
A72242 (9574203)		<0.5	7.27	<1	55	<0.5	<1	5.85	<0.5	4	39.9	219	22.7	7.49	32
A72243 (9574204)		<0.5	7.46	<1	84	<0.5	<1	7.15	<0.5	4	39.3	248	67.7	7.40	34
A72244 (9574205)		<0.5	7.19	<1	63	<0.5	<1	6.86	<0.5	3	36.3	196	27.8	7.10	34
A72245 (9574206)		<0.5	7.64	<1	84	<0.5	1	6.34	<0.5	4	39.0	213	76.8	7.51	33
A72246 (9574207)		<0.5	7.66	<1	194	0.9	4	6.19	<0.5	20	35.6	145	108	8.08	34
A72247 (9574208)		<0.5	7.41	<1	83	<0.5	<1	7.43	<0.5	4	39.0	161	127	7.71	31
A72248 (9574209)		<0.5	7.30	<1	47	<0.5	<1	7.24	<0.5	5	41.8	159	156	7.88	30
A72249 (9574210)		<0.5	7.44	<1	46	<0.5	<1	7.78	<0.5	3	34.8	186	74.3	6.86	34
A72250 (9574211)		<0.5	7.47	<1	98	0.5	<1	6.41	<0.5	4	38.3	142	113	7.59	33
A72251 (9574212)		<0.5	7.14	<1	88	<0.5	<1	6.16	<0.5	4	37.3	106	78.6	7.42	32

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018						DATE REPORTED: Oct 20, 2018					SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72252 (9574213)	<0.5	0.15	3	17	<0.5	<1	28.9	<0.5	<1	1.0	4.7	1.6	0.23	13	
A72253 (9574214)	<0.5	7.25	<1	202	<0.5	<1	6.71	<0.5	4	45.3	128	282	7.67	32	
A72254 (9574215)	<0.5	7.53	<1	90	<0.5	<1	7.17	<0.5	4	39.7	146	58.2	7.87	32	
A72255 (9574216)	<0.5	7.81	<1	95	<0.5	2	6.96	<0.5	4	37.7	142	83.4	8.00	32	
A72256 (9574217)	<0.5	7.43	<1	57	<0.5	<1	6.78	<0.5	4	42.7	127	304	7.64	31	

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018					DATE REPORTED: Oct 20, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72220 (9574181)	<1	0.19	3	4	4.96	1360	2.7	2.57	84.4	193	0.04	1	43	<10	
A72221 (9574182)	<1	0.13	3	3	5.17	1320	2.2	2.37	87.0	200	<0.01	3	45	<10	
A72222 (9574183)	<1	0.18	2	3	4.83	1340	1.8	2.69	81.8	196	0.01	<1	43	<10	
A72223 (9574184)	<1	0.21	2	5	4.94	1260	1.7	2.64	87.0	182	0.02	2	44	<10	
A72224 (9574185)	<1	0.18	3	4	5.09	1310	2.8	2.79	84.1	170	0.01	<1	44	<10	
A72225 (9574186)	<1	0.12	3	4	4.93	1310	1.7	1.23	99.6	189	0.29	<1	45	<10	
A72226 (9574187)	<1	0.44	9	10	4.50	1310	1.0	2.24	103	915	0.09	<1	34	<10	
A72227 (9574188)	<1	0.10	3	8	5.68	1490	1.8	1.81	92.8	249	0.04	<1	48	<10	
A72228 (9574189)	<1	0.15	2	6	5.41	1340	1.8	2.57	85.6	182	0.01	4	47	<10	
A72229 (9574190)	<1	0.20	2	4	5.03	1350	2.4	2.47	87.0	204	0.02	2	43	<10	
A72230 (9574191)	<1	0.23	2	5	4.87	1280	2.0	2.54	84.9	176	0.02	1	43	<10	
A72231 (9574192)	<1	0.07	3	5	5.21	1310	1.2	2.30	87.6	184	0.03	<1	46	<10	
A72232 (9574193)	<1	0.01	2	1	2.27	68	1.7	0.06	3.3	82	0.01	<1	<1	<10	
A72233 (9574194)	<1	0.04	3	4	4.76	1230	2.7	0.77	66.8	290	<0.01	3	39	<10	
A72234 (9574195)	<1	0.07	3	6	4.81	1280	3.7	1.75	84.6	207	0.03	<1	44	<10	
A72235 (9574196)	<1	0.08	2	2	4.41	1160	2.5	1.82	73.2	200	0.01	<1	40	<10	
A72236 (9574197)	<1	0.13	3	5	5.01	1300	1.0	1.54	92.1	210	0.05	<1	44	<10	
A72237 (9574198)	<1	0.18	2	5	5.00	1250	1.7	2.23	77.2	194	0.03	1	41	<10	
A72238 (9574199)	<1	0.17	3	6	5.05	1270	1.5	2.21	81.6	180	0.03	2	43	<10	
A72239 (9574200)	<1	0.11	3	2	5.01	1300	1.6	2.21	74.8	157	0.04	<1	41	<10	
A72240 (9574201)	<1	0.28	2	3	4.83	1400	1.7	2.08	78.3	181	0.04	<1	42	<10	
A72241 (9574202)	<1	0.13	3	5	4.67	1260	1.7	2.14	79.3	185	0.03	4	43	<10	
A72242 (9574203)	<1	0.15	2	7	5.66	1230	<0.5	1.95	93.6	174	<0.01	3	45	<10	
A72243 (9574204)	<1	0.20	2	5	5.53	1380	1.7	1.79	90.5	171	0.01	<1	44	<10	
A72244 (9574205)	<1	0.17	2	4	5.51	1240	1.2	1.90	90.8	164	<0.01	1	42	<10	
A72245 (9574206)	<1	0.20	2	7	5.83	1280	0.5	2.02	98.2	172	0.01	2	44	<10	
A72246 (9574207)	<1	0.46	9	10	4.75	1370	1.3	2.31	95.9	875	0.09	2	33	<10	
A72247 (9574208)	<1	0.23	2	4	5.08	1400	1.3	1.93	82.0	174	0.09	1	43	<10	
A72248 (9574209)	<1	0.21	2	5	5.22	1350	1.1	2.05	84.2	185	0.10	<1	45	<10	
A72249 (9574210)	<1	0.18	3	8	5.06	1180	1.5	1.98	81.4	174	0.02	1	39	<10	
A72250 (9574211)	<1	0.27	2	6	5.43	1250	2.8	2.09	75.2	192	0.05	<1	45	<10	
A72251 (9574212)	<1	0.24	3	5	5.06	1290	1.3	2.32	65.7	204	0.06	3	45	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018					DATE REPORTED: Oct 20, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:														
A72252 (9574213)	<1	0.02	2	<1	3.41	102	1.5	0.06	1.7	88	0.02	<1	<1	<10	
A72253 (9574214)	<1	0.34	3	6	4.76	1320	1.2	1.90	77.2	198	0.18	1	43	<10	
A72254 (9574215)	<1	0.24	2	5	5.11	1270	0.9	1.58	71.6	198	0.05	2	45	<10	
A72255 (9574216)	<1	0.27	3	7	5.58	1250	0.6	1.97	72.9	180	0.02	<1	45	<10	
A72256 (9574217)	<1	0.23	2	4	5.02	1210	0.7	2.67	95.3	194	0.16	2	45	<10	

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018						DATE REPORTED: Oct 20, 2018				SAMPLE TYPE: Drill Core	
Analyte: Unit: RDL:	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
Sample ID (AGAT ID)	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72220 (9574181)	<5	124	<10	<10	<5	0.40	<5	244	3	15	77.5	11
A72221 (9574182)	<5	325	<10	<10	<5	0.40	<5	253	1	15	59.9	11
A72222 (9574183)	<5	141	<10	<10	<5	0.39	<5	243	3	14	65.9	10
A72223 (9574184)	<5	186	<10	<10	<5	0.39	<5	247	3	16	66.4	13
A72224 (9574185)	<5	272	<10	<10	<5	0.41	<5	245	2	15	62.4	9
A72225 (9574186)	<5	675	<10	<10	<5	0.37	<5	333	2	19	88.4	10
A72226 (9574187)	<5	247	<10	<10	<5	0.86	<5	244	5	22	94.6	93
A72227 (9574188)	<5	521	<10	<10	<5	0.45	<5	270	3	17	63.9	13
A72228 (9574189)	<5	238	<10	<10	<5	0.42	<5	259	2	16	63.4	12
A72229 (9574190)	<5	250	<10	<10	<5	0.41	<5	243	1	15	61.9	9
A72230 (9574191)	<5	219	<10	<10	<5	0.39	<5	258	4	16	56.4	10
A72231 (9574192)	<5	387	<10	<10	<5	0.42	<5	256	2	15	59.6	10
A72232 (9574193)	<5	71	<10	<10	<5	0.01	<5	4.1	<1	2	3.8	<5
A72233 (9574194)	<5	828	<10	<10	<5	0.38	<5	236	4	15	37.3	12
A72234 (9574195)	<5	579	<10	<10	<5	0.41	<5	252	3	16	48.7	11
A72235 (9574196)	<5	615	<10	<10	<5	0.37	<5	235	2	15	48.1	9
A72236 (9574197)	<5	485	<10	<10	<5	0.41	<5	248	4	15	56.7	9
A72237 (9574198)	<5	307	<10	<10	<5	0.38	<5	232	1	15	59.9	10
A72238 (9574199)	<5	301	<10	<10	<5	0.38	<5	239	3	16	59.9	10
A72239 (9574200)	<5	339	<10	<10	<5	0.38	<5	232	3	14	59.2	7
A72240 (9574201)	<5	303	<10	<10	<5	0.40	<5	240	2	15	66.1	7
A72241 (9574202)	<5	503	<10	<10	<5	0.39	<5	241	2	15	52.1	9
A72242 (9574203)	<5	266	<10	<10	<5	0.34	<5	240	2	13	54.5	8
A72243 (9574204)	<5	198	<10	<10	<5	0.36	<5	241	4	15	70.6	8
A72244 (9574205)	<5	309	<10	<10	<5	0.33	<5	230	3	14	59.6	7
A72245 (9574206)	<5	270	<10	<10	<5	0.34	<5	242	2	14	59.0	8
A72246 (9574207)	<5	252	<10	<10	<5	0.86	<5	233	4	21	93.4	89
A72247 (9574208)	<5	264	<10	<10	<5	0.38	<5	239	2	14	64.2	7
A72248 (9574209)	<5	284	<10	<10	<5	0.41	<5	242	3	15	65.0	7
A72249 (9574210)	<5	286	<10	<10	<5	0.31	<5	224	2	15	57.0	7
A72250 (9574211)	<5	146	<10	<10	<5	0.39	<5	250	3	17	69.6	9
A72251 (9574212)	<5	232	<10	<10	<5	0.39	<5	259	2	17	62.7	8

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018						DATE REPORTED: Oct 20, 2018				SAMPLE TYPE: Drill Core		
Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr	
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72252 (9574213)	<5	67	<10	<10	<5	0.01	<5	4.3	1	2	3.9	<5	
A72253 (9574214)	<5	227	<10	<10	<5	0.39	<5	243	3	15	140	9	
A72254 (9574215)	<5	260	<10	<10	<5	0.39	<5	251	2	15	84.8	9	
A72255 (9574216)	<5	165	<10	<10	<5	0.41	<5	249	3	16	74.0	10	
A72256 (9574217)	<5	224	<10	<10	<5	0.41	<5	255	2	16	76.1	9	

Comments: RDL - Reported Detection Limit  
 9574181-9574217 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72220 (9574181)		1.2	5.3	0.050
A72221 (9574182)		0.6	2.4	0.037
A72222 (9574183)		1.6	5.1	0.044
A72223 (9574184)		1.3	3.7	0.052
A72224 (9574185)		0.6	3.4	0.038
A72225 (9574186)		1.8	1.7	0.049
A72226 (9574187)		3.5	12.0	0.410
A72227 (9574188)		0.6	1.1	0.070
A72228 (9574189)		0.9	2.7	0.062
A72229 (9574190)		1.1	5.5	0.046
A72230 (9574191)		0.9	5.9	0.174
A72231 (9574192)		0.4	1.1	0.046
A72232 (9574193)		0.5	0.4	0.136
A72233 (9574194)		0.4	0.5	0.049
A72234 (9574195)		0.5	1.4	0.047
A72235 (9574196)		0.3	1.6	0.045
A72236 (9574197)		0.7	4.0	0.048
A72237 (9574198)		0.6	5.2	0.057
A72238 (9574199)		1.1	4.9	0.057
A72239 (9574200)		0.4	2.4	0.043
A72240 (9574201)		0.5	10.5	0.044
A72241 (9574202)		0.3	3.7	0.051
A72242 (9574203)		0.2	4.5	0.037
A72243 (9574204)		0.4	5.8	0.043
A72244 (9574205)		0.3	4.6	0.041
A72245 (9574206)		0.3	5.9	0.039
A72246 (9574207)		3.4	12.3	0.407
A72247 (9574208)		1.0	6.2	0.046
A72248 (9574209)		0.8	4.2	0.048
A72249 (9574210)		0.7	3.5	0.072
A72250 (9574211)		0.5	6.7	0.053
A72251 (9574212)		0.4	7.2	0.045

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 24, 2018      DATE RECEIVED: Sep 24, 2018      DATE REPORTED: Oct 20, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pb	Rb	U
	Unit:	ppm	ppm	ppm
	RDL:	0.1	0.1	0.005
A72252 (9574213)		0.7	0.4	0.093
A72253 (9574214)		0.9	8.7	0.049
A72254 (9574215)		0.7	4.6	0.032
A72255 (9574216)		0.5	6.0	0.041
A72256 (9574217)		1.0	3.7	0.049

Comments: RDL - Reported Detection Limit  
9574181-9574217 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 24, 2018	DATE RECEIVED: Sep 24, 2018	DATE REPORTED: Oct 20, 2018	SAMPLE TYPE: Drill Core
Analyte:	Au		
Unit:	ppm		
RDL:	0.001		
Sample ID (AGAT ID)			
A72220 (9574181)	0.008		
A72221 (9574182)	0.004		
A72222 (9574183)	0.001		
A72223 (9574184)	0.002		
A72224 (9574185)	0.003		
A72225 (9574186)	0.002		
A72226 (9574187)	0.328		
A72227 (9574188)	0.002		
A72228 (9574189)	<0.001		
A72229 (9574190)	0.001		
A72230 (9574191)	<0.001		
A72231 (9574192)	<0.001		
A72232 (9574193)	<0.001		
A72233 (9574194)	0.001		
A72234 (9574195)	0.001		
A72235 (9574196)	<0.001		
A72236 (9574197)	<0.001		
A72237 (9574198)	<0.001		
A72238 (9574199)	<0.001		
A72239 (9574200)	0.002		
A72240 (9574201)	0.005		
A72241 (9574202)	<0.001		
A72242 (9574203)	<0.001		
A72243 (9574204)	0.001		
A72244 (9574205)	<0.001		
A72245 (9574206)	0.001		
A72246 (9574207)	0.342		
A72247 (9574208)	0.001		
A72248 (9574209)	0.001		
A72249 (9574210)	0.001		
A72250 (9574211)	0.003		
A72251 (9574212)	<0.001		

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Unit:	RDL:
Au	ppm	0.001
Sample ID (AGAT ID)		
A72252 (9574213)		<0.001
A72253 (9574214)		0.002
A72254 (9574215)		0.001
A72255 (9574216)		0.005
A72256 (9574217)		0.002

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 24, 2018      DATE RECEIVED: Sep 24, 2018      DATE REPORTED: Oct 20, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72221 (9574182)		83
A72239 (9574200)		81

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B389027

PROJECT: AGAT00344

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 24, 2018

DATE RECEIVED: Sep 24, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72220 (9574181)		96
A72249 (9574210)		91

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9574181	< 0.5	< 0.5	0.0%	9574195	< 0.5	< 0.5	0.0%	9574206	< 0.5	< 0.5	0.0%				
Al	9574181	7.46	7.59	1.7%	9574195	8.58	8.55	0.4%	9574206	7.64	7.54	1.3%				
As	9574181	< 1	< 1	0.0%	9574195	< 1	< 1	0.0%	9574206	< 1	< 1	0.0%				
Ba	9574181	66	63	4.7%	9574195	16	16	0.0%	9574206	84	82	2.4%				
Be	9574181	< 0.5	< 0.5	0.0%	9574195	< 0.5	< 0.5	0.0%	9574206	< 0.5	< 0.5	0.0%				
Bi	9574181	2	< 1		9574195	5	< 1		9574206	1	< 1					
Ca	9574181	6.55	7.02	6.9%	9574195	7.04	7.22	2.5%	9574206	6.34	6.28	1.0%				
Cd	9574181	< 0.5	< 0.5	0.0%	9574195	< 0.5	< 0.5	0.0%	9574206	< 0.5	< 0.5	0.0%				
Ce	9574181	4	4	0.0%	9574195	4	5	22.2%	9574206	4	4	0.0%				
Co	9574181	38.1	40.1	5.1%	9574195	40.2	40.4	0.5%	9574206	39.0	39.1	0.3%				
Cr	9574181	196	157	22.1%	9574195	167	163	2.4%	9574206	213	202	5.3%				
Cu	9574181	103	102	1.0%	9574195	112	114	1.8%	9574206	76.8	71.0	7.8%				
Fe	9574181	7.28	7.36	1.1%	9574195	8.60	8.88	3.2%	9574206	7.51	7.46	0.7%				
Ga	9574181	32	30	6.5%	9574195	35	35	0.0%	9574206	33	32	3.1%				
In	9574181	< 1	< 1	0.0%	9574195	< 1	< 1	0.0%	9574206	< 1	< 1	0.0%				
K	9574181	0.188	0.170	10.1%	9574195	0.07	0.07	0.0%	9574206	0.199	0.193	3.1%				
La	9574181	3	3	0.0%	9574195	3	3	0.0%	9574206	2	2	0.0%				
Li	9574181	4	4	0.0%	9574195	6	6	0.0%	9574206	7	7	0.0%				
Mg	9574181	4.96	5.02	1.2%	9574195	4.81	4.80	0.2%	9574206	5.83	5.79	0.7%				
Mn	9574181	1360	1370	0.7%	9574195	1280	1280	0.0%	9574206	1280	1270	0.8%				
Mo	9574181	2.68	2.20	19.7%	9574195	3.7	3.1	17.6%	9574206	0.5	0.9					
Na	9574181	2.57	2.74	6.4%	9574195	1.75	1.81	3.4%	9574206	2.02	2.01	0.5%				
Ni	9574181	84.4	87.8	3.9%	9574195	84.6	84.5	0.1%	9574206	98.2	92.1	6.4%				
P	9574181	193	199	3.1%	9574195	207	206	0.5%	9574206	172	163	5.4%				
S	9574181	0.04	0.02		9574195	0.03	0.03	0.0%	9574206	0.01	0.01	0.0%				
Sb	9574181	1	2		9574195	< 1	3		9574206	2	< 1					
Sc	9574181	43	44	2.3%	9574195	44	44	0.0%	9574206	44	43	2.3%				
Se	9574181	< 10	< 10	0.0%	9574195	< 10	< 10	0.0%	9574206	< 10	< 10	0.0%				
Sn	9574181	< 5	< 5	0.0%	9574195	< 5	< 5	0.0%	9574206	< 5	< 5	0.0%				
Sr	9574181	124	129	4.0%	9574195	579	588	1.5%	9574206	270	266	1.5%				
Ta	9574181	< 10	< 10	0.0%	9574195	< 10	< 10	0.0%	9574206	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9574181	< 10	< 10	0.0%	9574195	< 10	< 10	0.0%	9574206	< 10	< 10	0.0%				
Th	9574181	< 5	< 5	0.0%	9574195	< 5	< 5	0.0%	9574206	< 5	< 5	0.0%				
Ti	9574181	0.40	0.40	0.0%	9574195	0.406	0.402	1.0%	9574206	0.336	0.332	1.2%				
Tl	9574181	< 5	< 5	0.0%	9574195	< 5	< 5	0.0%	9574206	< 5	< 5	0.0%				
V	9574181	244	251	2.8%	9574195	252	251	0.4%	9574206	242	235	2.9%				
W	9574181	3	2		9574195	3	1		9574206	2	2	0.0%				
Y	9574181	15	15	0.0%	9574195	16	15	6.5%	9574206	14	14	0.0%				
Zn	9574181	77.5	75.8	2.2%	9574195	48.7	50.1	2.8%	9574206	59.0	59.3	0.5%				
Zr	9574181	11	11	0.0%	9574195	11	12	8.7%	9574206	8	7	13.3%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9574181	1.17	1.01	14.7%	9574195	0.5	0.5	0.0%	9574206	0.3	0.3	0.0%				
Rb	9574181	5.3	4.9	7.8%	9574195	1.42	1.47	3.5%	9574206	5.95	6.05	1.7%				
U	9574181	0.050	0.041	19.8%	9574195	0.047	0.044	6.6%	9574206	0.039	0.038	2.6%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9574181	0.008	0.008	0.0%	9574195	0.001	0.002		9574206	0.001	0.003					



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	9.91	90%	90% - 110%	8.17	8.23	101%	90% - 110%								
As					26	26	102%	90% - 110%								
Ba	340	323	95%	90% - 110%	540	527	98%	90% - 110%								
Be	2.6	2.7	104%	90% - 110%	4.0	3.8	94%	90% - 110%								
Ca	5.72	5.36	94%	90% - 110%	0.907	0.864	95%	90% - 110%								
Ce	122	109	90%	90% - 110%	98	103	105%	90% - 110%								
Cr					60.3	58.1	96%	90% - 110%								
Cu	7	5	73%	90% - 110%	150	155	104%	90% - 110%								
Fe	4.34	4.13	95%	90% - 110%	3.77	3.76	100%	90% - 110%								
Ga	35	38	108%	90% - 110%												
K	1.37	1.43	105%	90% - 110%												
La	58	53	91%	90% - 110%	44	41	93%	90% - 110%								
Li	37	39	105%	90% - 110%	47	48	103%	90% - 110%								
Mg	0.325	0.306	94%	90% - 110%	1.10	1.17	106%	90% - 110%								
Mn					780	756	97%	90% - 110%								
Mo					14	14	97%	90% - 110%								
Na	5.267	5.265	100%	90% - 110%	1.624	1.671	103%	90% - 110%								
Ni					32	29	92%	90% - 110%								
P					750	766	102%	90% - 110%								
Sc					12	12	102%	90% - 110%								
Sr	1191	1135	95%	90% - 110%	144	152	105%	90% - 110%								
Ti	0.172	0.174	101%	90% - 110%	0.53	0.49	93%	90% - 110%								
V					77	79	103%	90% - 110%								
W					5	6	124%	90% - 110%								
Y	119	114	96%	90% - 110%												
Zn	93	93	100%	90% - 110%	130	127	98%	90% - 110%								

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Pb	10	10	95%	90% - 110%	31	32	105%	90% - 110%								
Rb	55	51	92%	90% - 110%	143	150	104%	90% - 110%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

U					5.7	5.1	89%	90% - 110%								
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																
	CRM #1 (ref.WW03)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)							
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.01	2.1	104%	90% - 110%	2.01	2.07	103%	90% - 110%	6.56	6.87	105%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00344  
 SAMPLING SITE:

AGAT WORK ORDER: 18B389027  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE





CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00346

AGAT WORK ORDER: 18B389629

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 22, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 25, 2018      DATE RECEIVED: Sep 25, 2018      DATE REPORTED: Oct 22, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72288 (9577815)		2.40
A72289 (9577816)		1.91
A72290 (9577817)		1.38
A72291 (9577818)		1.69
A72292 (9577819)		1.67
A72293 (9577820)		1.82
A72294 (9577821)		2.44
A72295 (9577822)		1.84
A72296 (9577823)		1.38
A72297 (9577824)		1.32
A72298 (9577825)		1.32
A72299 (9577826)		2.18
A72300 (9577827)		2.06
A72301 (9577828)		2.48
A72302 (9577829)		1.97
A72303 (9577830)		2.25
A72304 (9577831)		2.08
A72305 (9577832)		2.00
A72306 (9577833)		0.07
A72307 (9577834)		2.12
A72308 (9577835)		2.36
A72309 (9577836)		1.80
A72310 (9577837)		2.28
A72311 (9577838)		2.29
A72312 (9577839)		1.55
A72313 (9577840)		2.23
A72314 (9577841)		2.21
A72315 (9577842)		2.20
A72316 (9577843)		2.58

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018							DATE REPORTED: Oct 22, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72288 (9577815)	<0.5	6.85	3	30	0.7	<1	6.83	<0.5	4	45.0	168	154	7.50	38	
A72289 (9577816)	<0.5	7.10	<1	40	1.3	3	7.58	<0.5	4	42.6	166	189	7.91	35	
A72290 (9577817)	<0.5	7.18	<1	21	0.6	3	7.45	<0.5	4	42.4	171	79.8	7.62	34	
A72291 (9577818)	<0.5	7.54	<1	22	<0.5	3	8.32	<0.5	4	43.4	188	78.3	8.11	32	
A72292 (9577819)	<0.5	0.37	2	15	<0.5	1	32.3	<0.5	<1	2.2	15.3	2.5	0.47	15	
A72293 (9577820)	<0.5	7.68	<1	24	0.5	4	8.61	<0.5	4	42.4	175	105	7.94	32	
A72294 (9577821)	<0.5	7.47	<1	24	<0.5	3	8.35	<0.5	3	44.6	151	99.2	7.63	31	
A72295 (9577822)	<0.5	7.78	<1	27	<0.5	5	8.25	<0.5	4	41.9	180	88.2	7.95	27	
A72296 (9577823)	<0.5	7.38	<1	27	<0.5	<1	8.24	<0.5	4	40.4	151	43.5	7.63	32	
A72297 (9577824)	<0.5	7.56	<1	25	0.6	<1	8.27	<0.5	3	44.0	155	124	7.81	31	
A72298 (9577825)	<0.5	7.65	<1	25	<0.5	2	8.47	<0.5	4	41.8	144	121	7.87	34	
A72299 (9577826)	<0.5	7.11	<1	21	0.6	<1	7.75	<0.5	4	43.5	177	104	7.24	33	
A72300 (9577827)	<0.5	7.74	<1	25	<0.5	4	7.94	<0.5	4	43.0	181	113	7.88	33	
A72301 (9577828)	<0.5	7.18	<1	23	0.5	3	8.15	<0.5	4	42.5	161	58.9	7.41	32	
A72302 (9577829)	<0.5	7.38	<1	19	0.5	5	8.56	<0.5	4	41.5	156	108	7.66	31	
A72303 (9577830)	<0.5	7.66	2	26	0.6	<1	8.36	<0.5	4	43.9	178	133	7.98	36	
A72304 (9577831)	<0.5	7.15	<1	22	<0.5	<1	7.79	<0.5	4	42.2	148	130	7.56	29	
A72305 (9577832)	<0.5	7.27	<1	36	0.5	2	8.10	<0.5	4	40.8	125	113	7.79	32	
A72306 (9577833)	<0.5	7.02	<1	196	1.8	10	6.22	<0.5	21	36.6	162	105	7.82	36	
A72307 (9577834)	<0.5	7.21	<1	23	0.5	<1	7.95	<0.5	4	41.7	148	98.5	7.60	35	
A72308 (9577835)	<0.5	7.49	<1	24	<0.5	3	8.64	<0.5	4	38.5	126	136	7.98	31	
A72309 (9577836)	<0.5	7.16	<1	25	<0.5	4	8.83	<0.5	4	37.6	123	126	7.64	28	
A72310 (9577837)	<0.5	7.22	<1	29	0.5	2	8.49	<0.5	4	39.6	125	90.3	7.48	31	
A72311 (9577838)	<0.5	7.03	<1	45	0.5	3	7.66	<0.5	4	37.3	111	78.5	7.46	32	
A72312 (9577839)	<0.5	0.16	<1	15	<0.5	<1	31.1	<0.5	<1	1.5	5.3	<0.5	0.24	12	
A72313 (9577840)	<0.5	7.13	<1	72	0.5	2	8.04	<0.5	4	43.1	134	138	7.66	31	
A72314 (9577841)	<0.5	7.13	<1	104	<0.5	3	8.43	<0.5	5	40.6	130	91.2	7.97	30	
A72315 (9577842)	<0.5	7.01	<1	44	0.5	4	7.22	<0.5	5	37.2	127	47.4	7.53	32	
A72316 (9577843)	<0.5	7.27	<1	94	0.6	2	8.43	<0.5	4	42.3	125	119	7.49	34	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	S % 0.01	Sb ppm 1	Sc ppm 1	Se ppm 10
A72288 (9577815)		<1	0.18	3	21	4.94	1260	4.3	1.18	114	208	0.10	<1	44	<10
A72289 (9577816)		<1	0.19	2	18	4.98	1360	3.3	1.32	108	183	0.20	<1	42	<10
A72290 (9577817)		<1	0.12	2	15	5.22	1300	3.2	1.21	110	190	0.07	<1	41	<10
A72291 (9577818)		<1	0.12	2	14	5.01	1470	3.4	1.10	119	176	0.09	<1	43	<10
A72292 (9577819)		<1	0.02	3	2	2.61	142	3.0	0.09	5.1	102	<0.01	<1	1	<10
A72293 (9577820)		<1	0.12	2	18	5.07	1490	1.5	1.32	112	181	0.10	<1	43	<10
A72294 (9577821)		<1	0.12	3	14	5.02	1460	2.7	1.26	119	163	0.08	2	43	<10
A72295 (9577822)		<1	0.15	2	16	5.16	1480	3.3	1.34	115	215	0.10	<1	41	<10
A72296 (9577823)		<1	0.15	2	16	4.98	1420	3.0	1.20	111	207	0.04	<1	42	<10
A72297 (9577824)		<1	0.12	2	12	4.97	1470	2.9	1.27	115	196	0.09	<1	44	<10
A72298 (9577825)		<1	0.13	3	12	5.01	1490	1.8	1.29	111	193	0.09	<1	43	<10
A72299 (9577826)		<1	0.13	2	14	4.82	1440	2.0	1.21	117	209	0.08	<1	43	<10
A72300 (9577827)		<1	0.13	2	13	5.26	1580	1.4	1.42	120	178	0.09	1	44	<10
A72301 (9577828)		<1	0.13	2	17	4.79	1440	1.6	0.99	108	199	0.04	<1	43	<10
A72302 (9577829)		<1	0.12	2	12	4.87	1550	2.0	0.89	104	183	0.12	<1	42	<10
A72303 (9577830)		<1	0.13	2	15	5.05	1620	2.2	1.11	112	192	0.14	4	45	<10
A72304 (9577831)		<1	0.13	2	14	4.55	1500	1.5	0.82	96.6	179	0.17	<1	43	<10
A72305 (9577832)		<1	0.17	2	14	4.68	1580	1.6	1.07	95.3	190	0.18	1	43	<10
A72306 (9577833)		<1	0.44	9	10	4.30	1360	1.2	2.21	110	868	0.08	2	33	<10
A72307 (9577834)		<1	0.14	2	13	4.60	1580	1.9	0.91	87.4	194	0.12	2	46	<10
A72308 (9577835)		<1	0.17	2	14	4.60	1650	1.5	0.85	75.7	197	0.15	<1	44	<10
A72309 (9577836)		<1	0.14	2	10	4.41	1630	1.9	0.79	72.3	205	0.16	2	44	<10
A72310 (9577837)		<1	0.17	2	12	4.30	1580	1.7	0.85	76.5	204	0.12	2	43	<10
A72311 (9577838)		<1	0.25	2	17	4.38	1500	1.9	0.93	75.7	183	0.10	<1	44	<10
A72312 (9577839)		<1	0.02	2	1	2.07	76	2.3	0.05	2.2	82	<0.01	<1	<1	<10
A72313 (9577840)		<1	0.27	2	23	4.77	1410	1.1	1.03	91.8	195	0.16	3	43	<10
A72314 (9577841)		<1	0.35	2	24	4.52	1490	2.0	1.19	86.5	174	0.06	2	45	<10
A72315 (9577842)		<1	0.23	2	23	4.94	1320	1.1	1.51	90.6	184	0.03	<1	41	<10
A72316 (9577843)		<1	0.33	2	13	4.24	1410	1.9	1.24	85.1	207	0.07	3	46	<10

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
Sample ID (AGAT ID)												
A72288 (9577815)	<5	89	<10	<10	<5	0.36	<5	255	3	16	68.7	8
A72289 (9577816)	<5	91	<10	<10	<5	0.38	<5	245	3	17	73.1	11
A72290 (9577817)	<5	96	<10	<10	<5	0.37	<5	237	3	16	70.7	8
A72291 (9577818)	<5	99	<10	<10	<5	0.39	<5	245	4	16	77.8	8
A72292 (9577819)	<5	74	<10	<10	<5	0.02	<5	10.9	<1	3	5.0	<5
A72293 (9577820)	<5	95	<10	<10	<5	0.39	<5	244	2	16	81.4	8
A72294 (9577821)	<5	88	<10	<10	<5	0.36	<5	248	2	15	69.9	8
A72295 (9577822)	<5	96	<10	<10	<5	0.38	<5	234	3	15	75.0	6
A72296 (9577823)	<5	90	<10	<10	<5	0.36	<5	238	1	15	68.8	7
A72297 (9577824)	<5	96	<10	<10	<5	0.40	<5	248	4	16	69.8	8
A72298 (9577825)	<5	98	<10	<10	<5	0.40	<5	245	2	16	68.4	8
A72299 (9577826)	<5	89	<10	<10	<5	0.37	<5	243	2	16	69.9	8
A72300 (9577827)	<5	94	<10	<10	<5	0.38	<5	240	1	15	72.9	7
A72301 (9577828)	<5	97	<10	<10	<5	0.37	<5	248	2	15	67.5	8
A72302 (9577829)	<5	105	<10	<10	<5	0.38	<5	240	2	15	76.2	6
A72303 (9577830)	<5	107	<10	<10	<5	0.40	<5	258	5	16	77.0	8
A72304 (9577831)	<5	93	<10	<10	<5	0.38	<5	247	4	15	78.7	6
A72305 (9577832)	<5	94	<10	<10	<5	0.38	<5	245	2	16	78.2	9
A72306 (9577833)	<5	251	<10	<10	<5	0.81	<5	240	3	21	88.6	87
A72307 (9577834)	<5	93	<10	<10	<5	0.39	<5	256	2	16	70.1	7
A72308 (9577835)	<5	101	<10	<10	<5	0.42	<5	246	2	16	78.8	6
A72309 (9577836)	<5	96	<10	<10	<5	0.38	<5	248	3	15	73.1	6
A72310 (9577837)	<5	96	<10	<10	<5	0.39	<5	248	3	15	73.1	6
A72311 (9577838)	<5	96	<10	<10	<5	0.40	<5	244	3	16	76.0	6
A72312 (9577839)	<5	70	<10	<10	<5	0.01	<5	5.2	1	2	3.2	<5
A72313 (9577840)	<5	88	<10	<10	<5	0.38	<5	246	2	16	73.6	7
A72314 (9577841)	<5	64	<10	<10	<5	0.40	<5	246	2	16	69.6	9
A72315 (9577842)	<5	82	<10	<10	<5	0.38	<5	235	<1	15	64.9	8
A72316 (9577843)	<5	69	<10	<10	<5	0.40	<5	260	2	16	72.2	7

Comments: RDL - Reported Detection Limit

9577815-9577843 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72288 (9577815)		0.6	5.7	0.041
A72289 (9577816)		0.9	4.1	0.064
A72290 (9577817)		0.5	2.0	0.034
A72291 (9577818)		0.6	2.0	0.047
A72292 (9577819)		0.4	0.3	0.166
A72293 (9577820)		0.7	1.5	0.042
A72294 (9577821)		0.5	1.8	0.041
A72295 (9577822)		0.6	3.5	0.046
A72296 (9577823)		0.5	3.4	0.046
A72297 (9577824)		0.5	2.1	0.059
A72298 (9577825)		0.4	2.0	0.051
A72299 (9577826)		0.6	2.9	0.038
A72300 (9577827)		0.6	2.3	0.033
A72301 (9577828)		0.4	3.2	0.040
A72302 (9577829)		0.5	1.9	0.042
A72303 (9577830)		0.6	2.2	0.041
A72304 (9577831)		0.6	2.3	0.040
A72305 (9577832)		0.8	3.2	0.043
A72306 (9577833)		3.2	10.9	0.373
A72307 (9577834)		0.6	3.0	0.043
A72308 (9577835)		0.8	4.7	0.045
A72309 (9577836)		0.4	3.0	0.039
A72310 (9577837)		0.5	4.2	0.044
A72311 (9577838)		0.4	7.5	0.045
A72312 (9577839)		0.3	0.6	0.091
A72313 (9577840)		0.5	13.9	0.051
A72314 (9577841)		0.5	12.9	0.055
A72315 (9577842)		0.8	7.2	0.044
A72316 (9577843)		0.7	10.3	0.043

Comments: RDL - Reported Detection Limit

9577815-9577843 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 25, 2018      DATE RECEIVED: Sep 25, 2018      DATE REPORTED: Oct 22, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72288 (9577815)			0.003
A72289 (9577816)			0.001
A72290 (9577817)			<0.001
A72291 (9577818)			<0.001
A72292 (9577819)			0.002
A72293 (9577820)			<0.001
A72294 (9577821)			0.002
A72295 (9577822)			<0.001
A72296 (9577823)			<0.001
A72297 (9577824)			<0.001
A72298 (9577825)			<0.001
A72299 (9577826)			<0.001
A72300 (9577827)			0.001
A72301 (9577828)			0.004
A72302 (9577829)			<0.001
A72303 (9577830)			<0.001
A72304 (9577831)			0.001
A72305 (9577832)			<0.001
A72306 (9577833)			0.325
A72307 (9577834)			0.002
A72308 (9577835)			0.006
A72309 (9577836)			0.002
A72310 (9577837)			0.002
A72311 (9577838)			0.003
A72312 (9577839)			<0.001
A72313 (9577840)			0.003
A72314 (9577841)			0.004
A72315 (9577842)			0.001
A72316 (9577843)			0.004

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018	DATE REPORTED: Oct 22, 2018	SAMPLE TYPE: Drill Core
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Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72289 (9577816)		91
A72307 (9577834)		89

Comments: RDL - Reported Detection Limit

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 18B389629

PROJECT: AGAT00346

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72288 (9577815)	96

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9577815	< 0.5	< 0.5	0.0%	9577829	< 0.5	< 0.5	0.0%	9577840	< 0.5	< 0.5	0.0%				
Al	9577815	6.85	7.38	7.4%	9577829	7.38	7.23	2.1%	9577840	7.13	7.15	0.3%				
As	9577815	3	< 1		9577829	< 1	< 1	0.0%	9577840	< 1	< 1	0.0%				
Ba	9577815	30	32	6.5%	9577829	19	18	5.4%	9577840	72	74	2.7%				
Be	9577815	0.7	< 0.5		9577829	0.52	0.62	17.5%	9577840	0.5	0.6	18.2%				
Bi	9577815	< 1	2		9577829	5	< 1		9577840	2	1					
Ca	9577815	6.83	7.08	3.6%	9577829	8.56	8.39	2.0%	9577840	8.04	7.32	9.4%				
Cd	9577815	< 0.5	< 0.5	0.0%	9577829	< 0.5	< 0.5	0.0%	9577840	< 0.5	< 0.5	0.0%				
Ce	9577815	4	5	22.2%	9577829	4	4	0.0%	9577840	4	4	0.0%				
Co	9577815	45.0	42.0	6.9%	9577829	41.5	45.2	8.5%	9577840	43.1	46.0	6.5%				
Cr	9577815	168	164	2.4%	9577829	156	184	16.5%	9577840	134	141	5.1%				
Cu	9577815	154	159	3.2%	9577829	108	104	3.8%	9577840	138	138	0.0%				
Fe	9577815	7.50	8.08	7.4%	9577829	7.66	7.57	1.2%	9577840	7.66	7.68	0.3%				
Ga	9577815	38	31	20.3%	9577829	31	33	6.3%	9577840	31	32	3.2%				
In	9577815	< 1	< 1	0.0%	9577829	< 1	< 1	0.0%	9577840	< 1	< 1	0.0%				
K	9577815	0.18	0.19	5.4%	9577829	0.116	0.112	3.5%	9577840	0.272	0.278	2.2%				
La	9577815	3	2		9577829	2	2	0.0%	9577840	2	2	0.0%				
Li	9577815	21	23	9.1%	9577829	12	11	8.7%	9577840	23	23	0.0%				
Mg	9577815	4.94	5.37	8.3%	9577829	4.87	4.78	1.9%	9577840	4.77	4.74	0.6%				
Mn	9577815	1260	1350	6.9%	9577829	1550	1520	2.0%	9577840	1410	1420	0.7%				
Mo	9577815	4.3	4.1	4.8%	9577829	2.03	1.54	27.5%	9577840	1.11	0.92	18.7%				
Na	9577815	1.18	1.24	5.0%	9577829	0.89	0.87	2.3%	9577840	1.03	1.04	1.0%				
Ni	9577815	114	105	8.2%	9577829	104	111	6.5%	9577840	91.8	98.6	7.1%				
P	9577815	208	206	1.0%	9577829	183	189	3.2%	9577840	195	209	6.9%				
S	9577815	0.10	0.10	0.0%	9577829	0.12	0.12	0.0%	9577840	0.161	0.169	4.8%				
Sb	9577815	< 1	1		9577829	< 1	< 1	0.0%	9577840	3	< 1					
Sc	9577815	44	42	4.7%	9577829	42	44	4.7%	9577840	43	45	4.5%				
Se	9577815	< 10	< 10	0.0%	9577829	< 10	< 10	0.0%	9577840	< 10	< 10	0.0%				
Sn	9577815	< 5	< 5	0.0%	9577829	< 5	< 5	0.0%	9577840	< 5	< 5	0.0%				
Sr	9577815	89	91	2.2%	9577829	105	103	1.9%	9577840	88	86	2.3%				
Ta	9577815	< 10	< 10	0.0%	9577829	< 10	< 10	0.0%	9577840	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9577815	< 10	< 10	0.0%	9577829	< 10	< 10	0.0%	9577840	< 10	< 10	0.0%				
Th	9577815	< 5	< 5	0.0%	9577829	< 5	< 5	0.0%	9577840	< 5	< 5	0.0%				
Ti	9577815	0.362	0.388	6.9%	9577829	0.379	0.374	1.3%	9577840	0.38	0.38	0.0%				
Tl	9577815	< 5	< 5	0.0%	9577829	< 5	< 5	0.0%	9577840	< 5	< 5	0.0%				
V	9577815	255	243	4.8%	9577829	240	256	6.5%	9577840	246	256	4.0%				
W	9577815	3	2		9577829	2	2	0.0%	9577840	2	2	0.0%				
Y	9577815	16	15	6.5%	9577829	15	15	0.0%	9577840	16	16	0.0%				
Zn	9577815	68.7	70.6	2.7%	9577829	76.2	74.2	2.7%	9577840	73.6	75.7	2.8%				
Zr	9577815	8	7	13.3%	9577829	6	7	15.4%	9577840	7	8	13.3%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9577815	0.6	0.6	0.0%	9577829	0.5	0.5	0.0%	9577840	0.54	0.56	3.6%				
Rb	9577815	5.7	5.85	2.6%	9577829	1.9	1.9	0.0%	9577840	13.9	13.2	5.2%				
U	9577815	0.041	0.042	2.4%	9577829	0.0425	0.0482	12.6%	9577840	0.0508	0.0525	3.3%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9577815	0.003	0.004	28.6%	9577829	< 0.001	0.002		9577840	0.003	0.002					



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GTS-2a)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.66	97%	90% - 110%	6.96	6.63	95%	90% - 110%								
As					124	127	102%	90% - 110%								
Ba	340	347	102%	90% - 110%	186	189	102%	90% - 110%								
Be	2.6	2.7	102%	90% - 110%												
Ca	5.72	5.64	99%	90% - 110%	4.01	3.82	95%	90% - 110%								
Ce	122	116	95%	90% - 110%	24	22	90%	90% - 110%								
Co					22.1	20.8	94%	90% - 110%								
Cu	7	5	77%	90% - 110%	88.6	88.2	100%	90% - 110%								
Fe	4.34	4.35	100%	90% - 110%	7.56	7.49	99%	90% - 110%								
Ga	35	35.0	100%	90% - 110%												
K	1.37	1.48	108%	90% - 110%	2.021	2.054	102%	90% - 110%								
La	58	50	87%	90% - 110%												
Li	37	41	110%	90% - 110%												
Mg	0.325	0.319	98%	90% - 110%	2.412	2.449	102%	90% - 110%								
Mn					1510	1493	99%	90% - 110%								
Na	5.267	5.323	101%	90% - 110%	0.617	0.603	98%	90% - 110%								
Ni					77.1	74.9	97%	90% - 110%								
P					892	907	102%	90% - 110%								
S					0.348	0.305	88%	90% - 110%								
Sr	1191	1247	105%	90% - 110%	92.8	90.9	98%	90% - 110%								
Ti	0.172	0.167	97%	90% - 110%												
V	8	6	72%	90% - 110%												
Y	119	119	100%	90% - 110%												
Zn	93	94	101%	90% - 110%	208	208	100%	90% - 110%								

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Pb	10	10	101%	90% - 110%												
Rb	55	55	100%	90% - 110%												
U	0.8	0.8	95%	90% - 110%												



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.01	2.20	109%	90% - 110%	2.01	2.16	107%	90% - 110%	6.56	6.76	103%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00346  
 SAMPLING SITE:

AGAT WORK ORDER: 18B389629  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00348

AGAT WORK ORDER: 18B389842

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 23, 2018

PAGES (INCLUDING COVER): 20

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 25, 2018      DATE RECEIVED: Sep 25, 2018      DATE REPORTED: Oct 23, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72343 (9579030)		1.00
A72344 (9579031)		2.17
A72345 (9579032)		2.28
A72346 (9579033)		0.07
A72347 (9579034)		2.27
A72348 (9579035)		2.16
A72349 (9579036)		0.94
A72350 (9579037)		0.88
A72351 (9579038)		0.81
A72352 (9579039)		0.83
A72353 (9579040)		1.66
A72354 (9579041)		1.39
A72355 (9579042)		0.56
A72356 (9579043)		1.17
A72357 (9579044)		0.72
A72358 (9579045)		0.72
A72359 (9579046)		0.99
A72360 (9579047)		0.86
A72361 (9579048)		0.81
A72362 (9579049)		1.60
A72363 (9579050)		2.42
A72364 (9579051)		2.34
A72365 (9579052)		2.19
A72366 (9579053)		0.07
A72367 (9579054)		2.16
A72368 (9579055)		2.22
A72369 (9579056)		1.39
A72370 (9579057)		0.82
A72371 (9579058)		1.11
A72372 (9579059)		0.80
A72373 (9579060)		2.08

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 23, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72374 (9579061)		1.57
A72375 (9579062)		1.43
A72376 (9579063)		1.74
A72377 (9579064)		1.53
A72378 (9579065)		1.53
A72379 (9579066)		1.55
A72380 (9579067)		1.31

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 23, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72343 (9579030)		<0.5	6.96	<1	31	1.0	9	6.26	<0.5	9	39.6	41.7	105	10.1	36
A72344 (9579031)		<0.5	7.17	<1	39	1.2	9	6.26	<0.5	9	39.6	39.9	98.5	10.0	39
A72345 (9579032)		<0.5	7.05	<1	67	1.1	4	6.45	<0.5	9	40.0	45.2	95.8	9.90	36
A72346 (9579033)		<0.5	7.41	<1	207	1.6	11	6.54	<0.5	21	36.7	183	113	8.22	34
A72347 (9579034)		<0.5	7.25	<1	132	1.3	8	6.14	<0.5	9	43.4	45.5	85.6	10.3	38
A72348 (9579035)		<0.5	7.01	<1	78	1.3	6	5.89	<0.5	9	41.7	40.8	117	10.1	36
A72349 (9579036)		<0.5	7.57	<1	114	1.3	12	5.88	<0.5	10	44.0	48.5	70.0	10.7	40
A72350 (9579037)		<0.5	8.71	<1	350	1.5	11	5.57	<0.5	13	54.4	61.5	256	13.5	45
A72351 (9579038)		<0.5	2.01	<1	57	<0.5	<1	1.43	<0.5	2	15.7	57.4	551	3.76	15
A72352 (9579039)		<0.5	0.12	<1	18	<0.5	<1	30.2	<0.5	<1	0.9	9.4	6.3	0.21	13
A72353 (9579040)		<0.5	0.01	1	3	<0.5	<1	0.99	<0.5	<1	<0.5	42.2	4.7	0.19	<5
A72354 (9579041)		<0.5	0.10	<1	3	<0.5	<1	0.83	<0.5	<1	2.0	55.3	832	0.48	<5
A72355 (9579042)		<0.5	0.15	2	4	<0.5	<1	3.43	<0.5	<1	5.9	76.6	252	0.64	<5
A72356 (9579043)		<0.5	0.62	<1	13	<0.5	<1	0.75	<0.5	<1	7.6	95.7	146	1.35	7
A72357 (9579044)		<0.5	0.76	1	9	<0.5	1	0.56	<0.5	<1	1.0	64.1	20.9	0.53	<5
A72358 (9579045)		<0.5	0.77	1	9	<0.5	<1	0.55	<0.5	<1	1.2	80.8	29.6	0.56	<5
A72359 (9579046)		<0.5	0.36	<1	7	<0.5	1	0.32	<0.5	<1	0.6	70.0	11.2	0.45	<5
A72360 (9579047)		<0.5	0.11	<1	4	<0.5	1	0.21	<0.5	<1	0.6	60.9	5.8	0.47	<5
A72361 (9579048)		<0.5	0.03	<1	4	<0.5	<1	0.16	<0.5	<1	<0.5	43.9	4.1	0.37	<5
A72362 (9579049)		<0.5	7.95	<1	54	1.6	12	6.61	<0.5	11	43.6	58.3	41.4	11.6	40
A72363 (9579050)		<0.5	6.90	<1	112	1.3	2	6.28	<0.5	9	40.8	38.6	93.3	9.95	37
A72364 (9579051)		<0.5	6.82	<1	63	1.4	2	6.44	<0.5	9	43.2	34.3	119	9.75	38
A72365 (9579052)		<0.5	7.16	<1	107	1.2	8	6.14	<0.5	9	39.0	29.8	87.0	10.4	36
A72366 (9579053)		<0.5	7.03	<1	194	1.5	8	6.25	<0.5	21	36.8	178	105	7.79	34
A72367 (9579054)		<0.5	7.12	<1	103	1.2	9	5.81	<0.5	9	41.7	30.1	74.5	9.88	36
A72368 (9579055)		<0.5	7.00	<1	192	1.3	10	6.20	<0.5	9	42.1	32.3	124	9.90	38
A72369 (9579056)		<0.5	7.15	<1	230	1.3	7	6.94	<0.5	9	42.5	35.8	123	10.5	37
A72370 (9579057)		<0.5	6.39	<1	135	0.9	9	8.12	<0.5	8	35.1	39.4	65.8	9.01	33
A72371 (9579058)		<0.5	7.38	<1	183	1.3	8	5.41	<0.5	9	40.4	32.7	85.8	10.5	38
A72372 (9579059)		<0.5	0.19	1	17	<0.5	<1	32.7	<0.5	<1	1.4	6.6	<0.5	0.30	14
A72373 (9579060)		<0.5	6.77	<1	106	1.3	8	5.91	<0.5	10	38.8	29.7	67.3	9.79	39
A72374 (9579061)		<0.5	7.10	<1	62	1.1	3	5.91	<0.5	9	39.4	32.7	100	9.78	36

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018					DATE REPORTED: Oct 23, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72375 (9579062)	<0.5	6.85	<1	93	1.1	10	7.04	<0.5	10	40.2	31.6	170	9.72	35	
A72376 (9579063)	<0.5	6.62	<1	63	1.0	3	7.34	<0.5	9	41.3	31.9	140	9.05	36	
A72377 (9579064)	<0.5	7.20	<1	34	1.1	10	6.38	<0.5	9	41.4	38.4	103	10.3	36	
A72378 (9579065)	<0.5	7.25	<1	34	1.2	10	6.23	<0.5	9	40.6	30.5	102	10.0	34	
A72379 (9579066)	<0.5	7.26	<1	52	1.1	8	6.99	<0.5	10	38.9	28.4	86.3	10.1	34	
A72380 (9579067)	<0.5	6.89	<1	62	1.1	7	7.75	<0.5	9	41.2	28.5	129	9.71	37	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 23, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	S % 0.01	Sb ppm 1	Sc ppm 1	Se ppm 10
A72343 (9579030)		<1	0.19	3	27	3.32	1620	2.4	1.63	49.5	347	0.08	<1	45	<10
A72344 (9579031)		<1	0.20	3	16	3.41	1700	2.9	1.65	46.7	364	0.08	<1	46	<10
A72345 (9579032)		<1	0.25	3	13	3.43	1690	4.0	1.47	78.2	372	0.09	1	46	<10
A72346 (9579033)		<1	0.46	9	11	4.51	1420	1.2	2.34	112	890	0.08	<1	34	<10
A72347 (9579034)		<1	0.31	4	14	3.54	1690	3.7	1.78	50.6	385	0.08	4	48	<10
A72348 (9579035)		<1	0.23	3	16	3.40	1610	3.4	1.82	47.9	369	0.10	2	46	<10
A72349 (9579036)		<1	0.20	4	13	3.63	1610	3.3	2.05	53.9	387	0.06	1	51	<10
A72350 (9579037)		<1	1.28	5	34	4.43	2100	4.6	0.99	66.6	483	0.23	3	66	<10
A72351 (9579038)		<1	0.24	<2	9	1.04	769	7.6	0.39	14.1	35	0.20	<1	9	<10
A72352 (9579039)		<1	0.02	2	1	2.52	71	3.1	0.05	0.9	85	<0.01	1	<1	<10
A72353 (9579040)		<1	<0.01	<2	<1	0.06	23	8.0	0.01	1.7	<10	<0.01	<1	<1	<10
A72354 (9579041)		<1	<0.01	<2	2	0.05	101	9.3	0.01	4.1	19	0.07	<1	<1	<10
A72355 (9579042)		<1	0.01	<2	2	0.06	364	10.5	0.06	6.3	<10	0.11	1	<1	<10
A72356 (9579043)		<1	0.09	<2	5	0.38	313	11.5	0.20	8.0	42	0.08	<1	2	<10
A72357 (9579044)		<1	0.02	<2	4	0.04	82	11.5	0.34	2.8	148	<0.01	<1	<1	<10
A72358 (9579045)		<1	0.02	<2	4	0.04	80	14.6	0.35	3.3	164	0.01	<1	<1	<10
A72359 (9579046)		<1	0.01	<2	3	0.01	58	13.4	0.19	2.7	12	<0.01	<1	<1	<10
A72360 (9579047)		<1	<0.01	<2	1	0.01	53	13.1	0.04	3.0	17	<0.01	<1	<1	<10
A72361 (9579048)		<1	<0.01	<2	<1	<0.01	45	13.6	0.02	2.7	15	<0.01	<1	<1	<10
A72362 (9579049)		<1	0.29	4	15	3.91	1840	5.3	1.74	55.1	408	0.03	<1	54	<10
A72363 (9579050)		<1	0.34	4	11	3.40	1580	3.3	1.56	48.7	359	0.06	<1	47	<10
A72364 (9579051)		<1	0.28	3	11	3.26	1630	2.0	1.55	50.1	390	0.12	<1	47	<10
A72365 (9579052)		<1	0.38	3	14	3.72	1650	1.9	1.81	48.8	365	0.07	<1	47	<10
A72366 (9579053)		<1	0.44	9	10	4.28	1360	0.8	2.23	110	901	0.09	<1	33	<10
A72367 (9579054)		<1	0.40	3	14	3.67	1640	1.5	1.75	48.3	394	0.06	2	47	<10
A72368 (9579055)		<1	0.60	3	14	3.38	1610	1.8	1.54	49.6	370	0.11	<1	47	<10
A72369 (9579056)		<1	0.61	3	13	3.39	1790	0.9	1.44	49.4	379	0.10	<1	47	<10
A72370 (9579057)		<1	0.64	3	14	3.65	1670	1.3	1.39	40.6	342	0.03	<1	41	<10
A72371 (9579058)		<1	0.54	4	14	4.29	1690	1.4	1.75	45.5	385	<0.01	3	48	<10
A72372 (9579059)		<1	0.02	2	1	2.62	89	1.8	0.07	1.2	100	<0.01	<1	<1	<10
A72373 (9579060)		<1	0.36	4	15	4.00	1670	2.4	1.60	44.7	362	0.02	<1	46	<10
A72374 (9579061)		<1	0.26	3	18	3.70	1660	2.4	1.63	47.3	384	0.09	<1	46	<10

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018					DATE REPORTED: Oct 23, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10
A72375 (9579062)	<1	0.32	4	15	2.99	1600	2.3	1.38	48.5	380	0.17	<1	45	<10	
A72376 (9579063)	<1	0.33	3	28	2.67	1500	3.2	1.62	47.9	375	0.12	<1	45	<10	
A72377 (9579064)	<1	0.20	3	14	3.12	1720	2.4	1.87	50.7	371	0.10	<1	47	<10	
A72378 (9579065)	<1	0.20	3	13	3.14	1740	2.2	1.85	48.2	370	0.09	<1	47	<10	
A72379 (9579066)	<1	0.25	3	8	3.24	1870	2.2	1.78	46.3	392	0.06	<1	44	<10	
A72380 (9579067)	<1	0.26	4	9	2.96	1830	2.3	1.57	50.0	380	0.10	<1	46	<10	

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## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018						DATE REPORTED: Oct 23, 2018				SAMPLE TYPE: Drill Core	
Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72343 (9579030)	<5	105	<10	<10	<5	0.68	<5	352	<1	25	103	10
A72344 (9579031)	<5	99	<10	<10	<5	0.69	<5	350	3	27	105	11
A72345 (9579032)	<5	86	<10	<10	<5	0.68	<5	355	3	27	101	10
A72346 (9579033)	<5	264	<10	<10	<5	0.86	<5	253	2	22	90.8	91
A72347 (9579034)	<5	91	<10	<10	<5	0.69	<5	372	5	28	103	14
A72348 (9579035)	<5	100	<10	<10	<5	0.69	<5	357	2	27	100	14
A72349 (9579036)	<5	111	<10	<10	<5	0.74	<5	385	3	29	107	14
A72350 (9579037)	<5	70	<10	<10	<5	0.94	<5	469	3	38	124	13
A72351 (9579038)	<5	24	<10	<10	<5	0.09	<5	89.2	2	4	44.0	<5
A72352 (9579039)	<5	66	<10	<10	<5	<0.01	<5	3.1	<1	2	2.7	<5
A72353 (9579040)	<5	4	<10	<10	<5	<0.01	<5	0.9	<1	1	<0.5	<5
A72354 (9579041)	<5	7	<10	<10	<5	0.01	<5	6.5	1	8	2.2	<5
A72355 (9579042)	<5	16	<10	<10	<5	<0.01	<5	4.0	<1	2	7.6	<5
A72356 (9579043)	<5	13	<10	<10	<5	<0.01	<5	29.7	<1	3	22.6	<5
A72357 (9579044)	<5	25	<10	<10	<5	<0.01	<5	6.2	<1	3	2.0	<5
A72358 (9579045)	<5	25	<10	<10	<5	<0.01	<5	6.2	<1	4	3.0	<5
A72359 (9579046)	<5	14	<10	<10	<5	<0.01	<5	2.3	<1	2	1.7	<5
A72360 (9579047)	<5	6	<10	<10	<5	<0.01	<5	2.4	1	2	1.7	<5
A72361 (9579048)	<5	5	<10	<10	<5	<0.01	<5	1.2	<1	2	1.9	<5
A72362 (9579049)	<5	93	<10	<10	<5	0.82	<5	370	3	31	119	15
A72363 (9579050)	<5	99	<10	<10	<5	0.68	<5	357	2	27	99.6	12
A72364 (9579051)	<5	106	<10	<10	<5	0.65	<5	360	3	27	104	13
A72365 (9579052)	<5	93	<10	<10	<5	0.71	<5	359	3	27	105	13
A72366 (9579053)	<5	252	<10	<10	<5	0.82	<5	246	3	21	86.7	88
A72367 (9579054)	<5	89	<10	<10	<5	0.68	<5	361	3	27	100	14
A72368 (9579055)	<5	94	<10	<10	<5	0.69	<5	365	3	27	108	12
A72369 (9579056)	<5	107	<10	<10	<5	0.70	<5	362	2	28	112	11
A72370 (9579057)	<5	96	<10	<10	<5	0.60	<5	323	5	25	95.3	10
A72371 (9579058)	<5	68	<10	<10	<5	0.73	<5	369	3	27	95.2	12
A72372 (9579059)	<5	72	<10	<10	<5	0.02	<5	7.4	<1	3	4.5	<5
A72373 (9579060)	<5	73	<10	<10	<5	0.68	<5	358	2	27	97.5	12
A72374 (9579061)	<5	106	<10	<10	<5	0.68	<5	353	2	26	108	11

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018						DATE REPORTED: Oct 23, 2018				SAMPLE TYPE: Drill Core		
Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr	
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Sample ID (AGAT ID)	RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72375 (9579062)	<5	123	<10	<10	<5	0.68	<5	349	3	27	102	9	
A72376 (9579063)	<5	101	<10	<10	<5	0.63	<5	347	3	23	84.8	12	
A72377 (9579064)	<5	111	<10	<10	<5	0.71	<5	368	3	27	101	11	
A72378 (9579065)	<5	110	<10	<10	<5	0.70	<5	367	3	27	99.5	11	
A72379 (9579066)	<5	111	<10	<10	<5	0.71	<5	340	2	26	105	10	
A72380 (9579067)	<5	94	<10	<10	<5	0.69	<5	350	4	27	119	10	

Comments: RDL - Reported Detection Limit  
 9579030-9579067 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 25, 2018      DATE RECEIVED: Sep 25, 2018      DATE REPORTED: Oct 23, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72343 (9579030)		0.6	3.1	0.066
A72344 (9579031)		0.6	3.2	0.077
A72345 (9579032)		0.7	5.2	0.073
A72346 (9579033)		3.4	10.8	0.369
A72347 (9579034)		0.7	24.3	0.072
A72348 (9579035)		0.6	4.9	0.069
A72349 (9579036)		0.8	2.5	0.075
A72350 (9579037)		0.6	145	0.092
A72351 (9579038)		0.7	29.5	0.046
A72352 (9579039)		0.4	1.0	0.182
A72353 (9579040)		0.2	0.1	0.046
A72354 (9579041)		0.2	0.3	0.186
A72355 (9579042)		0.4	0.8	0.080
A72356 (9579043)		0.3	7.1	0.098
A72357 (9579044)		<0.1	0.9	0.065
A72358 (9579045)		0.2	0.9	0.068
A72359 (9579046)		0.2	0.5	0.030
A72360 (9579047)		0.2	0.2	0.017
A72361 (9579048)		0.2	<0.1	0.031
A72362 (9579049)		0.6	8.1	0.073
A72363 (9579050)		0.6	13.5	0.066
A72364 (9579051)		0.7	8.3	0.065
A72365 (9579052)		0.6	19.8	0.065
A72366 (9579053)		3.4	10.7	0.356
A72367 (9579054)		0.5	16.1	0.068
A72368 (9579055)		0.6	30.2	0.063
A72369 (9579056)		0.6	29.1	0.065
A72370 (9579057)		0.5	36.0	0.064
A72371 (9579058)		0.5	31.5	0.061
A72372 (9579059)		0.5	0.5	0.146
A72373 (9579060)		0.4	16.1	0.062
A72374 (9579061)		0.6	8.4	0.068

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 23, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pb	Rb	U
	Unit:	ppm	ppm	ppm
	RDL:	0.1	0.1	0.005
A72375 (9579062)		0.5	11.6	0.068
A72376 (9579063)		0.6	15.9	0.076
A72377 (9579064)		0.6	3.3	0.062
A72378 (9579065)		0.6	3.3	0.062
A72379 (9579066)		0.5	6.1	0.073
A72380 (9579067)		0.6	6.7	0.073

Comments: RDL - Reported Detection Limit

9579030-9579067 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 25, 2018      DATE RECEIVED: Sep 25, 2018      DATE REPORTED: Oct 23, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A72343 (9579030)				0.002
A72344 (9579031)				0.001
A72345 (9579032)				0.002
A72346 (9579033)				0.351
A72347 (9579034)				0.002
A72348 (9579035)				0.002
A72349 (9579036)				0.019
A72350 (9579037)				0.002
A72351 (9579038)				0.004
A72352 (9579039)				0.001
A72353 (9579040)				0.005
A72354 (9579041)				0.007
A72355 (9579042)				0.003
A72356 (9579043)				0.002
A72357 (9579044)				0.007
A72358 (9579045)				0.001
A72359 (9579046)				0.002
A72360 (9579047)				<0.001
A72361 (9579048)				0.001
A72362 (9579049)				0.002
A72363 (9579050)				0.005
A72364 (9579051)				0.002
A72365 (9579052)				0.001
A72366 (9579053)				0.332
A72367 (9579054)				0.001
A72368 (9579055)				0.001
A72369 (9579056)				0.001
A72370 (9579057)				0.002
A72371 (9579058)				0.002
A72372 (9579059)				<0.001
A72373 (9579060)				0.002
A72374 (9579061)				0.001

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018	DATE REPORTED: Oct 23, 2018	SAMPLE TYPE: Drill Core
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Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72375 (9579062)			0.002
A72376 (9579063)			0.002
A72377 (9579064)			0.002
A72378 (9579065)			0.001
A72379 (9579066)			0.001
A72380 (9579067)			0.001

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 25, 2018	DATE RECEIVED: Sep 25, 2018	DATE REPORTED: Oct 23, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72343 (9579030)		83
A72362 (9579049)		84

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B389842

PROJECT: AGAT00348

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 25, 2018

DATE RECEIVED: Sep 25, 2018

DATE REPORTED: Oct 23, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72343 (9579030)		97
A72373 (9579060)		91

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9579030	< 0.5	< 0.5	0.0%	9579044	< 0.5	< 0.5	0.0%	9579055	< 0.5	< 0.5	0.0%				
Al	9579030	6.96	7.12	2.3%	9579044	0.761	0.733	3.7%	9579055	7.00	7.31	4.3%				
As	9579030	< 1	< 1	0.0%	9579044	1	2		9579055	< 1	< 1	0.0%				
Ba	9579030	31	31	0.0%	9579044	9	8	11.8%	9579055	192	197	2.6%				
Be	9579030	1.02	1.20	16.2%	9579044	< 0.5	< 0.5	0.0%	9579055	1.28	1.01	23.6%				
Bi	9579030	9	5		9579044	1	< 1		9579055	10	3					
Ca	9579030	6.26	6.36	1.6%	9579044	0.557	0.531	4.8%	9579055	6.20	6.45	4.0%				
Cd	9579030	< 0.5	< 0.5	0.0%	9579044	< 0.5	< 0.5	0.0%	9579055	< 0.5	< 0.5	0.0%				
Ce	9579030	9	9	0.0%	9579044	< 1	< 1	0.0%	9579055	9	9	0.0%				
Co	9579030	39.6	40.8	3.0%	9579044	0.97	0.90	7.5%	9579055	42.1	41.0	2.6%				
Cr	9579030	41.7	41.9	0.5%	9579044	64.1	54.3	16.6%	9579055	32.3	39.7	20.6%				
Cu	9579030	105	108	2.8%	9579044	20.9	19.9	4.9%	9579055	124	125	0.8%				
Fe	9579030	10.1	10.2	1.0%	9579044	0.528	0.502	5.0%	9579055	9.90	10.3	4.0%				
Ga	9579030	36	37	2.7%	9579044	< 5	< 5	0.0%	9579055	38	39	2.6%				
In	9579030	< 1	< 1	0.0%	9579044	< 1	< 1	0.0%	9579055	< 1	< 1	0.0%				
K	9579030	0.19	0.19	0.0%	9579044	0.02	0.02	0.0%	9579055	0.60	0.63	4.9%				
La	9579030	3	4	28.6%	9579044	< 2	< 2	0.0%	9579055	3	3	0.0%				
Li	9579030	27	28	3.6%	9579044	4	4	0.0%	9579055	14	14	0.0%				
Mg	9579030	3.32	3.39	2.1%	9579044	0.04	0.04	0.0%	9579055	3.38	3.54	4.6%				
Mn	9579030	1620	1670	3.0%	9579044	82	77	6.3%	9579055	1610	1670	3.7%				
Mo	9579030	2.4	3.3		9579044	11.5	10.4	10.0%	9579055	1.8	2.5					
Na	9579030	1.63	1.65	1.2%	9579044	0.339	0.325	4.2%	9579055	1.54	1.60	3.8%				
Ni	9579030	49.5	48.0	3.1%	9579044	2.80	2.54	9.7%	9579055	49.6	52.4	5.5%				
P	9579030	347	371	6.7%	9579044	148	142	4.1%	9579055	370	373	0.8%				
S	9579030	0.08	0.08	0.0%	9579044	< 0.01	< 0.01	0.0%	9579055	0.11	0.11	0.0%				
Sb	9579030	< 1	3		9579044	< 1	< 1	0.0%	9579055	< 1	< 1	0.0%				
Sc	9579030	45	47	4.3%	9579044	< 1	< 1	0.0%	9579055	47	48	2.1%				
Se	9579030	< 10	< 10	0.0%	9579044	< 10	< 10	0.0%	9579055	< 10	< 10	0.0%				
Sn	9579030	< 5	< 5	0.0%	9579044	< 5	< 5	0.0%	9579055	< 5	< 5	0.0%				
Sr	9579030	105	106	0.9%	9579044	25	24	4.1%	9579055	94	97	3.1%				
Ta	9579030	< 10	< 10	0.0%	9579044	< 10	< 10	0.0%	9579055	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9579030	< 10	< 10	0.0%	9579044	< 10	< 10	0.0%	9579055	< 10	< 10	0.0%				
Th	9579030	< 5	< 5	0.0%	9579044	< 5	< 5	0.0%	9579055	< 5	< 5	0.0%				
Ti	9579030	0.68	0.69	1.5%	9579044	< 0.01	< 0.01	0.0%	9579055	0.689	0.717	4.0%				
Tl	9579030	< 5	< 5	0.0%	9579044	< 5	< 5	0.0%	9579055	< 5	< 5	0.0%				
V	9579030	352	365	3.6%	9579044	6.23	5.95	4.6%	9579055	365	367	0.5%				
W	9579030	< 1	4		9579044	< 1	< 1	0.0%	9579055	3	3	0.0%				
Y	9579030	25	26	3.9%	9579044	3	3	0.0%	9579055	27	27	0.0%				
Zn	9579030	103	107	3.8%	9579044	2.0	1.6	22.2%	9579055	108	113	4.5%				
Zr	9579030	10	11	9.5%	9579044	< 5	< 5	0.0%	9579055	12	12	0.0%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9579030	0.6	0.6	0.0%	9579044	< 0.1	< 0.1	0.0%	9579055	0.64	0.76	17.1%				
Rb	9579030	3.1	3.0	3.3%	9579044	0.88	0.85	3.5%	9579055	30.2	32.7	7.9%				
U	9579030	0.066	0.067	1.5%	9579044	0.065	0.064	1.6%	9579055	0.063	0.0629	0.2%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9579030	0.002	0.001		9579044	0.007	0.001		9579055	0.001	0.001	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GTS-2a)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.41	95%	90% - 110%	6.96	6.36	91%	90% - 110%								
As					124	120	97%	90% - 110%								
Ba	340	335	99%	90% - 110%	186	181	97%	90% - 110%								
Be	2.6	2.8	106%	90% - 110%												
Ca	5.72	5.41	95%	90% - 110%	4.01	3.74	93%	90% - 110%								
Ce	122	120	99%	90% - 110%	24	22	90%	90% - 110%								
Co					22.1	19.9	90%	90% - 110%								
Cu	7	5	70%	90% - 110%	88.6	82.4	93%	90% - 110%								
Fe	4.34	4.21	97%	90% - 110%	7.56	7.18	95%	90% - 110%								
Ga	35	36.0	103%	90% - 110%												
K	1.37	1.44	105%	90% - 110%	2.021	1.974	98%	90% - 110%								
La	58	52	89%	90% - 110%												
Li	37	40	108%	90% - 110%												
Mg	0.325	0.304	94%	90% - 110%	2.412	2.356	98%	90% - 110%								
Mn					1510	1434	95%	90% - 110%								
Na	5.267	5.109	97%	90% - 110%	0.617	0.592	96%	90% - 110%								
Ni					77.1	72	93%	90% - 110%								
P					892	911	102%	90% - 110%								
S					0.348	0.3	86%	90% - 110%								
Sr	1191	1190	100%	90% - 110%	92.8	89.2	96%	90% - 110%								
Ti	0.172	0.166	96%	90% - 110%												
V	8	6	78%	90% - 110%												
Y	119	122	102%	90% - 110%												
Zn	93	87	94%	90% - 110%	208	196	94%	90% - 110%								

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW07)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Pb	10	11	108%	90% - 110%												
Rb	55	55	99%	90% - 110%												

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.04	102%	90% - 110%	6.56	7.09	108%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00348  
 SAMPLING SITE:

AGAT WORK ORDER: 18B389842  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00354

AGAT WORK ORDER: 18B391267

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 22, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Sep 28, 2018      DATE RECEIVED: Sep 28, 2018      DATE REPORTED: Oct 22, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72381 (9585919)		1.54
A72382 (9585920)		1.32
A72383 (9585921)		0.96
A72384 (9585922)		1.80
A72385 (9585923)		2.24
A72386 (9585924)		0.07
A72387 (9585925)		2.62
A72388 (9585926)		2.37
A72389 (9585927)		2.23
A72390 (9585928)		2.51
A72391 (9585929)		2.51
A72392 (9585930)		0.95
A72393 (9585931)		2.37
A72394 (9585932)		1.94
A72395 (9585933)		3.18
A72396 (9585934)		1.20
A72397 (9585935)		0.78
A72398 (9585936)		0.78
A72399 (9585937)		1.59
A72400 (9585938)		2.29
A72401 (9585939)		2.04
A72402 (9585940)		1.51
A72403 (9585941)		1.66
A72404 (9585942)		1.92

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 28, 2018

DATE RECEIVED: Sep 28, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72381 (9585919)		<0.5	7.65	<1	85	0.7	4	6.30	<0.5	4	40.7	107	60.0	7.53	32
A72382 (9585920)		<0.5	7.67	<1	78	0.7	3	5.61	<0.5	4	43.9	113	147	8.25	33
A72383 (9585921)		<0.5	6.87	<1	152	0.9	2	5.50	<0.5	5	39.3	98.3	48.8	6.42	29
A72384 (9585922)		<0.5	7.17	<1	65	0.7	<1	6.66	<0.5	4	41.0	104	55.1	7.25	30
A72385 (9585923)		<0.5	6.83	<1	126	1.1	<1	7.03	<0.5	13	42.8	113	120	7.32	36
A72386 (9585924)		<0.5	7.11	<1	197	1.8	13	6.36	<0.5	20	35.7	129	105	7.84	36
A72387 (9585925)		<0.5	7.09	<1	132	1.3	5	7.76	<0.5	27	40.1	108	141	7.38	35
A72388 (9585926)		<0.5	7.17	<1	174	0.8	9	7.63	<0.5	10	39.0	103	93.6	7.53	32
A72389 (9585927)		<0.5	7.35	<1	91	0.5	2	7.19	<0.5	4	41.2	111	171	7.53	33
A72390 (9585928)		<0.5	7.15	<1	70	0.9	<1	7.38	<0.5	4	43.2	112	120	7.12	34
A72391 (9585929)		<0.5	7.15	<1	71	0.7	3	8.20	<0.5	4	38.7	90.9	122	6.61	30
A72392 (9585930)		<0.5	0.18	2	14	<0.5	<1	29.9	<0.5	<1	1.2	3.4	1.0	0.25	13
A72393 (9585931)		<0.5	7.40	<1	70	0.7	3	8.25	<0.5	4	40.4	101	62.6	7.12	32
A72394 (9585932)		<0.5	7.33	<1	82	0.5	2	7.50	<0.5	4	39.1	106	108	7.32	31
A72395 (9585933)		<0.5	7.01	<1	158	<0.5	2	7.62	<0.5	4	37.1	93.1	109	6.66	30
A72396 (9585934)		<0.5	7.98	<1	179	0.7	5	7.04	<0.5	5	43.1	101	50.6	7.90	32
A72397 (9585935)		<0.5	5.62	<1	122	<0.5	3	12.8	<0.5	3	33.7	91.7	37.3	6.20	30
A72398 (9585936)		<0.5	5.46	2	120	<0.5	2	12.3	<0.5	3	33.0	86.8	36.9	6.04	28
A72399 (9585937)		<0.5	6.60	<1	101	2.0	9	8.33	<0.5	40	43.7	185	413	8.18	34
A72400 (9585938)		<0.5	7.52	<1	88	0.9	3	6.44	<0.5	6	45.3	125	58.4	8.33	34
A72401 (9585939)		<0.5	5.94	<1	82	0.9	8	7.72	<0.5	20	37.1	141	95.8	7.02	27
A72402 (9585940)		<0.5	4.89	<1	92	<0.5	<1	7.20	<0.5	1	27.9	80.7	18.8	5.22	25
A72403 (9585941)		<0.5	5.99	<1	98	<0.5	3	8.13	<0.5	2	30.3	84.9	9.0	6.08	27
A72404 (9585942)		<0.5	6.05	<1	37	<0.5	<1	6.66	<0.5	3	34.6	91.1	142	6.70	28

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 28, 2018		DATE RECEIVED: Sep 28, 2018					DATE REPORTED: Oct 22, 2018					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	S % 0.01	Sb ppm 1	Sc ppm 1	Se ppm 10	
A72381 (9585919)		<1	0.21	3	10	4.50	1680	3.6	1.87	91.9	210	0.03	<1	44	<10	
A72382 (9585920)		<1	0.26	3	14	4.86	1770	3.6	2.09	96.8	207	0.06	<1	47	<10	
A72383 (9585921)		<1	0.37	2	11	3.88	1360	2.8	1.71	86.6	209	0.03	<1	42	<10	
A72384 (9585922)		<1	0.16	2	8	4.48	1620	2.0	1.77	91.5	183	0.05	<1	45	<10	
A72385 (9585923)		<1	0.38	6	11	4.31	1620	3.1	1.45	99.4	326	0.09	1	46	<10	
A72386 (9585924)		<1	0.44	9	10	4.32	1360	1.5	2.28	108	879	0.07	3	33	<10	
A72387 (9585925)		<1	0.37	13	11	4.30	1710	2.8	1.44	100	539	0.12	<1	44	<10	
A72388 (9585926)		<1	0.51	5	10	4.43	1600	2.9	1.22	94.7	266	0.06	2	43	<10	
A72389 (9585927)		<1	0.26	2	9	4.39	1620	2.4	1.30	93.3	191	0.09	<1	45	<10	
A72390 (9585928)		<1	0.20	2	7	4.25	1570	2.4	1.34	94.8	192	0.07	<1	47	<10	
A72391 (9585929)		<1	0.20	2	13	3.94	1410	2.1	1.13	83.6	190	0.06	<1	42	<10	
A72392 (9585930)		<1	0.02	2	2	2.39	86	2.6	0.06	2.1	98	<0.01	<1	<1	<10	
A72393 (9585931)		<1	0.19	2	6	4.32	1580	1.3	1.33	91.2	208	0.03	1	44	<10	
A72394 (9585932)		<1	0.23	2	7	4.26	1620	1.4	1.38	90.0	184	0.07	<1	44	<10	
A72395 (9585933)		<1	0.46	<2	25	3.90	1280	1.2	1.19	82.7	197	0.08	<1	42	<10	
A72396 (9585934)		<1	0.44	2	10	4.79	1770	1.0	1.60	102	228	<0.01	<1	49	<10	
A72397 (9585935)		<1	0.47	2	22	3.77	1210	2.1	0.77	80.4	208	0.04	1	39	<10	
A72398 (9585936)		<1	0.46	2	25	3.68	1160	1.8	0.74	79.3	204	0.04	2	38	<10	
A72399 (9585937)		<1	0.38	17	11	5.40	1750	1.6	1.16	127	691	0.09	<1	43	<10	
A72400 (9585938)		<1	0.32	3	13	5.11	1860	1.4	1.74	106	208	0.01	1	51	<10	
A72401 (9585939)		<1	0.37	9	12	4.17	1410	2.0	1.17	99.4	383	0.06	<1	40	<10	
A72402 (9585940)		<1	0.53	<2	45	3.41	451	2.1	0.07	62.1	142	<0.01	<1	31	<10	
A72403 (9585941)		<1	0.84	<2	62	3.99	481	0.9	0.07	70.4	156	<0.01	<1	36	<10	
A72404 (9585942)		<1	0.45	2	45	4.14	664	1.3	0.77	74.5	142	0.02	3	38	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 28, 2018

DATE RECEIVED: Sep 28, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
Sample ID (AGAT ID)												
A72381 (9585919)	<5	93	<10	<10	<5	0.40	<5	250	3	15	70.6	8
A72382 (9585920)	<5	90	<10	<10	<5	0.41	<5	264	<1	16	72.8	8
A72383 (9585921)	<5	72	<10	<10	<5	0.35	<5	244	2	16	61.4	7
A72384 (9585922)	<5	74	<10	<10	<5	0.38	<5	258	2	16	83.2	9
A72385 (9585923)	<5	106	<10	<10	<5	0.45	<5	273	3	18	68.1	23
A72386 (9585924)	<5	256	<10	<10	<5	0.84	<5	243	2	21	85.9	91
A72387 (9585925)	<5	163	<10	<10	<5	0.56	<5	265	3	18	72.3	39
A72388 (9585926)	<5	109	<10	<10	<5	0.46	<5	251	4	16	72.6	18
A72389 (9585927)	<5	104	<10	<10	<5	0.39	<5	259	3	15	78.5	7
A72390 (9585928)	<5	95	<10	<10	<5	0.38	<5	266	3	17	79.3	8
A72391 (9585929)	<5	99	<10	<10	<5	0.37	<5	244	4	16	67.1	8
A72392 (9585930)	<5	65	<10	<10	<5	0.01	<5	5.3	<1	2	3.7	<5
A72393 (9585931)	<5	94	<10	<10	<5	0.39	<5	253	2	16	75.0	7
A72394 (9585932)	<5	97	<10	<10	<5	0.39	<5	258	2	16	115	6
A72395 (9585933)	<5	112	<10	<10	<5	0.37	<5	239	3	15	49.7	7
A72396 (9585934)	<5	101	<10	<10	<5	0.43	<5	269	2	17	70.1	7
A72397 (9585935)	<5	117	<10	<10	<5	0.31	<5	209	2	15	47.2	6
A72398 (9585936)	<5	116	<10	<10	<5	0.30	<5	205	3	14	47.6	7
A72399 (9585937)	<5	177	<10	<10	<5	0.83	<5	273	3	21	69.1	82
A72400 (9585938)	<5	107	<10	<10	<5	0.44	<5	288	2	18	79.7	12
A72401 (9585939)	<5	87	<10	<10	<5	0.52	<5	238	2	16	63.3	36
A72402 (9585940)	<5	18	<10	<10	<5	0.22	<5	178	1	9	33.5	5
A72403 (9585941)	<5	21	<10	<10	<5	0.29	<5	212	2	12	40.4	<5
A72404 (9585942)	<5	43	<10	<10	<5	0.30	<5	210	3	13	47.0	7

Comments: RDL - Reported Detection Limit

9585919-9585942 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Sep 28, 2018      DATE RECEIVED: Sep 28, 2018      DATE REPORTED: Oct 22, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72381 (9585919)		0.5	7.4	0.039
A72382 (9585920)		0.5	10.2	0.034
A72383 (9585921)		0.3	13.3	0.041
A72384 (9585922)		0.6	4.7	0.046
A72385 (9585923)		0.5	16.6	0.106
A72386 (9585924)		3.5	11.0	0.334
A72387 (9585925)		0.9	15.4	0.255
A72388 (9585926)		0.7	20.4	0.132
A72389 (9585927)		1.7	9.6	0.043
A72390 (9585928)		0.6	6.1	0.048
A72391 (9585929)		0.5	6.8	0.072
A72392 (9585930)		0.4	0.4	0.121
A72393 (9585931)		0.5	6.0	0.052
A72394 (9585932)		1.2	6.8	0.036
A72395 (9585933)		0.3	17.7	0.039
A72396 (9585934)		0.2	15.0	0.038
A72397 (9585935)		0.3	20.5	0.045
A72398 (9585936)		0.5	21.9	0.056
A72399 (9585937)		0.5	14.9	0.379
A72400 (9585938)		0.4	11.3	0.044
A72401 (9585939)		0.4	14.6	0.165
A72402 (9585940)		0.5	23.6	0.033
A72403 (9585941)		0.4	33.0	0.033
A72404 (9585942)		1.2	18.8	0.035

Comments: RDL - Reported Detection Limit  
9585919-9585942 As, Sb values may be low due to digestion losses.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 28, 2018      DATE RECEIVED: Sep 28, 2018      DATE REPORTED: Oct 22, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72381 (9585919)			0.022
A72382 (9585920)			0.004
A72383 (9585921)			0.004
A72384 (9585922)			0.006
A72385 (9585923)			0.005
A72386 (9585924)			0.355
A72387 (9585925)			0.004
A72388 (9585926)			0.003
A72389 (9585927)			0.006
A72390 (9585928)			0.003
A72391 (9585929)			0.004
A72392 (9585930)			0.002
A72393 (9585931)			0.004
A72394 (9585932)			0.004
A72395 (9585933)			0.004
A72396 (9585934)			0.004
A72397 (9585935)			0.002
A72398 (9585936)			0.003
A72399 (9585937)			0.020
A72400 (9585938)			0.003
A72401 (9585939)			0.006
A72402 (9585940)			0.002
A72403 (9585941)			0.002
A72404 (9585942)			0.004

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 28, 2018

DATE RECEIVED: Sep 28, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72381 (9585919)		76
A72400 (9585938)		76

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 28, 2018

DATE RECEIVED: Sep 28, 2018

DATE REPORTED: Oct 22, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72381 (9585919)	98

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9585919	< 0.5	< 0.5	0.0%	9585933	< 0.5	< 0.5	0.0%								
Al	9585919	7.65	7.62	0.4%	9585933	7.01	7.00	0.1%								
As	9585919	< 1	< 1	0.0%	9585933	< 1	< 1	0.0%								
Ba	9585919	85	79	7.3%	9585933	158	157	0.6%								
Be	9585919	0.7	0.7	0.0%	9585933	0.5	0.6	18.2%								
Bi	9585919	4	4	0.0%	9585933	2	1									
Ca	9585919	6.30	6.17	2.1%	9585933	7.62	7.60	0.3%								
Cd	9585919	< 0.5	< 0.5	0.0%	9585933	< 0.5	< 0.5	0.0%								
Ce	9585919	4	4	0.0%	9585933	4	4	0.0%								
Co	9585919	40.7	41.7	2.4%	9585933	37.1	38.8	4.5%								
Cr	9585919	107	118	9.8%	9585933	93.1	91.8	1.4%								
Cu	9585919	60.0	54.7	9.2%	9585933	109	107	1.9%								
Fe	9585919	7.53	7.50	0.4%	9585933	6.66	6.64	0.3%								
Ga	9585919	32	30	6.5%	9585933	30	30	0.0%								
In	9585919	< 1	< 1	0.0%	9585933	< 1	< 1	0.0%								
K	9585919	0.21	0.20	4.9%	9585933	0.46	0.46	0.0%								
La	9585919	3	3	0.0%	9585933	2	2	0.0%								
Li	9585919	10	9	10.5%	9585933	25	25	0.0%								
Mg	9585919	4.50	4.48	0.4%	9585933	3.90	3.88	0.5%								
Mn	9585919	1680	1670	0.6%	9585933	1280	1280	0.0%								
Mo	9585919	3.6	3.9	8.0%	9585933	1.2	1.6	28.6%								
Na	9585919	1.87	1.82	2.7%	9585933	1.19	1.19	0.0%								
Ni	9585919	91.9	94.1	2.4%	9585933	82.7	86.1	4.0%								
P	9585919	210	194	7.9%	9585933	197	196	0.5%								
S	9585919	0.03	0.01		9585933	0.08	0.08	0.0%								
Sb	9585919	< 1	1		9585933	< 1	2									
Sc	9585919	44	47	6.6%	9585933	42	43	2.4%								
Se	9585919	< 10	< 10	0.0%	9585933	< 10	< 10	0.0%								
Sn	9585919	< 5	< 5	0.0%	9585933	< 5	< 5	0.0%								
Sr	9585919	93	89	4.4%	9585933	112	113	0.9%								
Ta	9585919	< 10	< 10	0.0%	9585933	< 10	< 10	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9585919	< 10	< 10	0.0%	9585933	< 10	< 10	0.0%											
Th	9585919	< 5	< 5	0.0%	9585933	< 5	< 5	0.0%											
Ti	9585919	0.40	0.40	0.0%	9585933	0.37	0.37	0.0%											
Tl	9585919	< 5	< 5	0.0%	9585933	< 5	< 5	0.0%											
V	9585919	250	272	8.4%	9585933	239	242	1.2%											
W	9585919	3	3	0.0%	9585933	3	1												
Y	9585919	15	17	12.5%	9585933	15	15	0.0%											
Zn	9585919	70.6	69.2	2.0%	9585933	49.7	49.8	0.2%											
Zr	9585919	8	8	0.0%	9585933	7	7	0.0%											

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2														
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD											
Pb	9585919	0.5	0.4	22.2%	9585933	0.3	0.6												
Rb	9585919	7.40	7.48	1.1%	9585933	17.7	17.8	0.6%											
U	9585919	0.039	0.032	19.7%	9585933	0.039	0.039	0.0%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2														
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD											
Au	9585919	0.022	0.005		9585933	0.0036	0.0029	21.5%											



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GTS-2a)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.65	97%	90% - 110%	6.96	6.44	93%	90% - 110%								
As					124	124	100%	90% - 110%								
Ba	340	341	100%	90% - 110%	186	183	99%	90% - 110%								
Be	2.6	2.8	106%	90% - 110%												
Ca	5.72	5.49	96%	90% - 110%	4.01	3.78	94%	90% - 110%								
Ce	122	120	98%	90% - 110%	24	23	94%	90% - 110%								
Co					22.1	21.2	96%	90% - 110%								
Cu					88.6	87.8	99%	90% - 110%								
Fe	4.34	4.27	98%	90% - 110%	7.56	7.22	96%	90% - 110%								
Ga	35	36.1	103%	90% - 110%												
K	1.37	1.48	108%	90% - 110%	2.021	2.008	99%	90% - 110%								
La	58	53	91%	90% - 110%												
Li	37	40	109%	90% - 110%												
Mg	0.325	0.312	96%	90% - 110%	2.412	2.363	98%	90% - 110%								
Mn					1510	1428	95%	90% - 110%								
Na	5.267	5.277	100%	90% - 110%	0.617	0.606	98%	90% - 110%								
Ni					77.1	73.9	96%	90% - 110%								
P					892	940	105%	90% - 110%								
S					0.348	0.32	91%	90% - 110%								
Sr	1191	1238	104%	90% - 110%	92.8	90.6	98%	90% - 110%								
Ti	0.172	0.164	96%	90% - 110%												
V	8	6	76%	90% - 110%												
Y	119	121	102%	90% - 110%												
Zn	93	90	96%	90% - 110%	208	202	97%	90% - 110%								

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Pb	10	11	106%	90% - 110%												
Rb	55	55	100%	90% - 110%												

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**



**AGAT** Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B391267

PROJECT: AGAT00354

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	6.56	6.5	99%	90% - 110%	2.01	2.21	109%	90% - 110%	6.56	6.88	105%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00354  
 SAMPLING SITE:

AGAT WORK ORDER: 18B391267  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE





CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00358

AGAT WORK ORDER: 18B392480

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 24, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 01, 2018      DATE RECEIVED: Oct 02, 2018      DATE REPORTED: Oct 24, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72405 (9594982)		1.85
A72406 (9594983)		0.07
A72407 (9594984)		2.60
A72408 (9594985)		1.79
A72409 (9594986)		2.35
A72410 (9594987)		2.29
A72411 (9594988)		2.35
A72412 (9594989)		0.91
A72413 (9594990)		2.30
A72414 (9594991)		2.49
A72415 (9594992)		2.13
A72416 (9594993)		2.44
A72417 (9594994)		2.51
A72418 (9594995)		2.51
A72419 (9594996)		3.10
A72420 (9594997)		2.44
A72421 (9594998)		2.41
A72422 (9594999)		2.31
A72423 (9595000)		2.35
A72424 (9595001)		2.10
A72425 (9595002)		0.84
A72426 (9595003)		0.07
A72427 (9595004)		1.00
A72428 (9595005)		1.83
A72429 (9595006)		0.83
A72430 (9595007)		1.52
A72431 (9595008)		1.10
A72432 (9595009)		0.97
A72433 (9595010)		2.07

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Oct 24, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72405 (9594982)		<0.5	7.60	<1	31	<0.5	<1	9.04	<0.5	6	38.9	148	240	8.98	33
A72406 (9594983)		<0.5	7.28	<1	193	1.0	<1	6.44	<0.5	22	36.5	163	109	8.06	34
A72407 (9594984)		<0.5	6.56	<1	19	<0.5	<1	7.96	<0.5	4	34.0	128	90.7	7.87	29
A72408 (9594985)		<0.5	7.04	<1	16	<0.5	<1	7.19	<0.5	4	31.6	149	61.6	6.77	28
A72409 (9594986)		<0.5	6.56	<1	42	<0.5	<1	7.51	<0.5	4	34.7	122	86.9	6.59	29
A72410 (9594987)		<0.5	6.73	<1	41	<0.5	<1	7.23	<0.5	4	35.8	135	49.7	7.10	33
A72411 (9594988)		<0.5	6.92	<1	31	<0.5	<1	9.02	<0.5	4	36.2	118	168	7.47	30
A72412 (9594989)		<0.5	0.21	<1	14	<0.5	1	31.9	<0.5	<1	1.6	3.7	2.3	0.28	13
A72413 (9594990)		<0.5	8.59	<1	21	<0.5	<1	9.92	<0.5	5	42.8	169	139	9.14	36
A72414 (9594991)		<0.5	7.28	<1	18	<0.5	<1	7.24	<0.5	4	35.5	144	106	7.70	31
A72415 (9594992)		<0.5	9.52	<1	14	<0.5	<1	9.36	<0.5	6	47.0	177	148	9.99	39
A72416 (9594993)		<0.5	9.09	<1	16	<0.5	<1	8.91	<0.5	5	43.1	209	119	9.50	34
A72417 (9594994)		<0.5	9.16	<1	20	<0.5	2	8.93	<0.5	5	46.9	180	149	9.91	37
A72418 (9594995)		<0.5	9.46	<1	21	<0.5	<1	9.06	<0.5	6	45.9	180	146	10.0	39
A72419 (9594996)		<0.5	9.11	<1	66	<0.5	<1	8.76	<0.5	5	43.7	156	133	9.70	40
A72420 (9594997)		<0.5	9.30	<1	68	<0.5	<1	8.71	<0.5	6	47.2	174	143	10.0	38
A72421 (9594998)		<0.5	9.37	<1	66	<0.5	<1	8.90	<0.5	6	46.0	181	122	10.4	36
A72422 (9594999)		<0.5	7.53	<1	64	<0.5	<1	7.14	<0.5	5	39.6	152	119	8.33	31
A72423 (9595000)		<0.5	7.29	<1	48	<0.5	<1	6.85	<0.5	5	37.6	142	167	7.91	31
A72424 (9595001)		<0.5	7.54	<1	89	<0.5	<1	6.38	<0.5	5	39.9	129	133	8.49	36
A72425 (9595002)		<0.5	7.67	<1	118	<0.5	<1	6.44	<0.5	5	40.5	133	18.4	8.72	35
A72426 (9595003)		<0.5	7.09	<1	186	1.0	<1	6.19	<0.5	23	37.5	168	105	7.79	36
A72427 (9595004)		<0.5	5.12	<1	126	<0.5	<1	4.52	<0.5	3	26.8	117	5.1	5.68	26
A72428 (9595005)		<0.5	8.71	<1	106	<0.5	<1	7.02	<0.5	6	47.4	186	19.1	9.91	39
A72429 (9595006)		<0.5	5.60	<1	45	<0.5	<1	6.05	<0.5	4	30.2	74.3	128	6.25	28
A72430 (9595007)		<0.5	7.52	<1	38	<0.5	<1	6.53	<0.5	5	40.6	120	137	8.49	36
A72431 (9595008)		<0.5	7.40	<1	32	<0.5	<1	6.27	<0.5	5	38.5	88.8	180	8.33	30
A72432 (9595009)		<0.5	0.12	8	16	<0.5	1	32.6	<0.5	<1	1.4	3.0	3.8	0.28	12
A72433 (9595010)		<0.5	7.22	<1	47	<0.5	<1	6.24	<0.5	5	37.4	106	117	7.93	33

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 01, 2018	DATE RECEIVED: Oct 02, 2018					DATE REPORTED: Oct 24, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72405 (9594982)	<1	0.15	3	20	4.96	1630	2.5	0.79	76.7	172	0.44	<1	47	<10	
A72406 (9594983)	<1	0.45	10	11	4.55	1300	0.9	2.32	90.4	900	0.08	2	34	<10	
A72407 (9594984)	<1	0.11	3	25	4.54	1650	1.8	0.75	66.4	183	0.11	<1	39	<10	
A72408 (9594985)	<1	0.08	2	41	4.04	1200	1.5	1.11	70.5	175	0.01	<1	40	<10	
A72409 (9594986)	<1	0.27	3	33	3.83	1250	1.7	0.68	67.5	172	0.04	<1	39	<10	
A72410 (9594987)	<1	0.18	3	24	4.34	1270	1.6	1.17	71.5	180	0.03	<1	42	<10	
A72411 (9594988)	<1	0.18	3	15	4.43	1400	2.0	0.82	67.7	186	0.12	<1	41	<10	
A72412 (9594989)	<1	0.02	3	1	2.26	83	1.9	0.05	3.7	92	<0.01	<1	<1	<10	
A72413 (9594990)	<1	0.22	3	24	6.01	1480	1.3	1.72	81.4	213	0.08	<1	50	<10	
A72414 (9594991)	<1	0.13	3	15	5.20	1160	1.4	1.52	68.9	174	0.06	<1	42	<10	
A72415 (9594992)	<1	0.16	4	18	6.87	1530	2.2	2.00	86.5	236	0.05	2	55	<10	
A72416 (9594993)	<1	0.16	4	13	6.49	1540	1.9	1.69	84.6	224	0.06	<1	53	<10	
A72417 (9594994)	<1	0.20	3	18	6.48	1680	2.3	1.93	83.1	241	0.10	<1	54	<10	
A72418 (9594995)	<1	0.20	4	19	6.68	1730	2.6	1.97	86.3	247	0.09	1	56	<10	
A72419 (9594996)	<1	0.42	3	17	6.41	1720	2.1	2.07	86.7	235	0.08	2	55	<10	
A72420 (9594997)	<1	0.54	3	19	6.54	1770	3.4	2.04	91.1	245	0.09	<1	55	<10	
A72421 (9594998)	<1	0.62	4	19	6.37	1720	3.6	2.50	95.0	243	0.06	2	55	<10	
A72422 (9594999)	<1	0.50	3	13	5.12	1360	4.4	2.13	81.2	216	0.08	<1	46	<10	
A72423 (9595000)	<1	0.39	3	14	4.72	1320	2.5	2.09	71.1	211	0.12	<1	43	<10	
A72424 (9595001)	<1	0.82	3	20	5.15	1350	1.4	2.12	73.7	208	0.07	2	46	<10	
A72425 (9595002)	<1	1.10	3	36	5.28	1510	2.8	1.23	77.1	185	<0.01	<1	48	<10	
A72426 (9595003)	<1	0.44	10	10	4.41	1270	1.6	2.23	92.9	907	0.07	<1	33	<10	
A72427 (9595004)	<1	0.85	<2	33	3.46	1000	5.7	0.75	47.0	130	<0.01	<1	28	<10	
A72428 (9595005)	<1	1.39	3	45	6.06	1610	2.2	1.37	80.4	248	<0.01	3	53	<10	
A72429 (9595006)	<1	0.42	2	18	3.81	1070	4.3	1.50	49.4	169	0.02	<1	36	<10	
A72430 (9595007)	<1	0.48	3	20	5.04	1330	3.2	2.33	64.5	214	0.09	<1	45	<10	
A72431 (9595008)	<1	0.32	3	14	4.91	1320	3.3	2.61	58.4	212	0.16	1	44	<10	
A72432 (9595009)	<1	0.02	3	1	2.67	79	1.9	0.05	1.5	83	0.05	1	<1	<10	
A72433 (9595010)	<1	0.67	3	17	4.87	1240	2.2	2.30	60.8	203	0.08	2	45	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 01, 2018	DATE RECEIVED: Oct 02, 2018						DATE REPORTED: Oct 24, 2018					SAMPLE TYPE: Drill Core	
Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr	
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5	
A72405 (9594982)	<5	76	<10	<10	<5	0.35	<5	249	3	16	78.4	10	
A72406 (9594983)	<5	249	<10	<10	<5	0.80	<5	239	3	22	91.3	94	
A72407 (9594984)	<5	55	<10	<10	<5	0.31	<5	219	2	13	64.6	6	
A72408 (9594985)	<5	74	<10	<10	<5	0.32	<5	224	2	10	62.9	<5	
A72409 (9594986)	<5	54	<10	<10	<5	0.30	<5	219	1	9	61.0	<5	
A72410 (9594987)	<5	70	<10	<10	<5	0.30	<5	235	3	12	69.0	6	
A72411 (9594988)	<5	66	<10	<10	<5	0.34	<5	230	2	14	76.3	6	
A72412 (9594989)	<5	69	<10	<10	<5	0.01	<5	6.7	<1	2	4.5	<5	
A72413 (9594990)	<5	95	<10	<10	<5	0.38	<5	278	3	16	99.0	10	
A72414 (9594991)	<5	100	<10	<10	<5	0.33	<5	232	1	14	70.6	9	
A72415 (9594992)	<5	127	<10	<10	<5	0.45	<5	305	2	19	81.3	11	
A72416 (9594993)	<5	114	<10	<10	<5	0.42	<5	295	3	19	77.1	10	
A72417 (9594994)	<5	114	<10	<10	<5	0.46	<5	299	3	19	84.5	11	
A72418 (9594995)	<5	116	<10	<10	<5	0.47	<5	314	2	20	84.3	11	
A72419 (9594996)	<5	94	<10	<10	<5	0.47	<5	310	1	19	77.6	11	
A72420 (9594997)	<5	89	<10	<10	<5	0.49	<5	314	2	20	84.9	12	
A72421 (9594998)	<5	80	<10	<10	<5	0.48	<5	312	4	19	83.2	12	
A72422 (9594999)	<5	58	<10	<10	<5	0.41	<5	261	3	17	76.3	10	
A72423 (9595000)	<5	60	<10	<10	<5	0.39	<5	251	2	16	71.2	10	
A72424 (9595001)	<5	69	<10	<10	<5	0.43	<5	271	1	17	74.1	11	
A72425 (9595002)	<5	39	<10	<10	<5	0.42	<5	277	2	17	70.4	11	
A72426 (9595003)	<5	238	<10	<10	<5	0.77	<5	241	4	22	88.6	92	
A72427 (9595004)	<5	28	<10	<10	<5	0.27	<5	169	2	11	47.5	7	
A72428 (9595005)	<5	29	<10	<10	<5	0.47	<5	306	4	20	81.8	14	
A72429 (9595006)	<5	40	<10	<10	<5	0.32	<5	205	2	13	51.8	7	
A72430 (9595007)	<5	45	<10	<10	<5	0.42	<5	260	2	17	68.4	13	
A72431 (9595008)	<5	47	<10	<10	<5	0.42	<5	255	2	17	66.8	12	
A72432 (9595009)	<5	69	<10	<10	<5	<0.01	<5	3.3	<1	2	3.7	<5	
A72433 (9595010)	<5	53	<10	<10	<5	0.40	<5	255	1	16	63.4	11	

Comments: RDL - Reported Detection Limit  
9594982-9595010 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 01, 2018      DATE RECEIVED: Oct 02, 2018      DATE REPORTED: Oct 24, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72405 (9594982)		0.7	3.2	0.094
A72406 (9594983)		3.0	12.4	0.358
A72407 (9594984)		0.4	2.8	0.043
A72408 (9594985)		0.4	2.5	0.049
A72409 (9594986)		0.4	9.3	0.034
A72410 (9594987)		0.8	6.2	0.031
A72411 (9594988)		0.4	4.2	0.037
A72412 (9594989)		0.5	0.5	0.122
A72413 (9594990)		0.3	2.3	0.048
A72414 (9594991)		0.4	2.0	0.052
A72415 (9594992)		0.2	1.0	0.033
A72416 (9594993)		0.1	1.0	0.032
A72417 (9594994)		0.2	1.0	0.031
A72418 (9594995)		0.1	1.0	0.030
A72419 (9594996)		0.1	7.5	0.029
A72420 (9594997)		<0.1	8.7	0.031
A72421 (9594998)		<0.1	8.9	0.024
A72422 (9594999)		0.2	16.2	0.037
A72423 (9595000)		0.2	8.5	0.032
A72424 (9595001)		0.3	33.1	0.038
A72425 (9595002)		<0.1	34.8	0.037
A72426 (9595003)		2.9	12.3	0.361
A72427 (9595004)		<0.1	28.5	0.024
A72428 (9595005)		<0.1	43.5	0.056
A72429 (9595006)		0.1	14.4	0.030
A72430 (9595007)		0.8	12.1	0.038
A72431 (9595008)		1.0	6.2	0.043
A72432 (9595009)		0.3	0.6	0.075
A72433 (9595010)		0.3	22.1	0.034

Comments: RDL - Reported Detection Limit  
 9594982-9595010 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Oct 24, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72405 (9594982)			0.009
A72406 (9594983)			0.353
A72407 (9594984)			0.004
A72408 (9594985)			0.003
A72409 (9594986)			0.004
A72410 (9594987)			0.004
A72411 (9594988)			0.004
A72412 (9594989)			0.002
A72413 (9594990)			0.005
A72414 (9594991)			0.003
A72415 (9594992)			0.004
A72416 (9594993)			0.004
A72417 (9594994)			0.003
A72418 (9594995)			0.004
A72419 (9594996)			0.005
A72420 (9594997)			0.005
A72421 (9594998)			0.004
A72422 (9594999)			0.004
A72423 (9595000)			0.004
A72424 (9595001)			0.004
A72425 (9595002)			0.003
A72426 (9595003)			0.321
A72427 (9595004)			0.002
A72428 (9595005)			0.004
A72429 (9595006)			0.007
A72430 (9595007)			0.003
A72431 (9595008)			0.002
A72432 (9595009)			0.001
A72433 (9595010)			0.004

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Oct 24, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72405 (9594982)		89
A72424 (9595001)		92

Comments: RDL - Reported Detection Limit

Certified By:





**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B392480

PROJECT: AGAT00358

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Oct 24, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72405 (9594982)	92

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9594982	< 0.5	< 0.5	0.0%	9594996	< 0.5	< 0.5	0.0%	9595007	< 0.5	< 0.5	0.0%				
Al	9594982	7.60	7.32	3.8%	9594996	9.11	9.44	3.6%	9595007	7.52	7.64	1.6%				
As	9594982	< 1	< 1	0.0%	9594996	< 1	< 1	0.0%	9595007	< 1	< 1	0.0%				
Ba	9594982	31	23	29.6%	9594996	66	69	4.4%	9595007	38	38	0.0%				
Be	9594982	< 0.5	< 0.5	0.0%	9594996	< 0.5	< 0.5	0.0%	9595007	< 0.5	< 0.5	0.0%				
Bi	9594982	< 1	< 1	0.0%	9594996	< 1	1		9595007	< 1	< 1	0.0%				
Ca	9594982	9.04	8.85	2.1%	9594996	8.76	8.88	1.4%	9595007	6.53	6.46	1.1%				
Cd	9594982	< 0.5	< 0.5	0.0%	9594996	< 0.5	< 0.5	0.0%	9595007	< 0.5	< 0.5	0.0%				
Ce	9594982	6	5	18.2%	9594996	5	6	18.2%	9595007	5	5	0.0%				
Co	9594982	38.9	41.0	5.3%	9594996	43.7	45.3	3.6%	9595007	40.6	40.6	0.0%				
Cr	9594982	148	156	5.3%	9594996	156	173	10.3%	9595007	120	130	8.0%				
Cu	9594982	240	245	2.1%	9594996	133	138	3.7%	9595007	137	132	3.7%				
Fe	9594982	8.98	8.72	2.9%	9594996	9.70	9.84	1.4%	9595007	8.49	8.54	0.6%				
Ga	9594982	33	35	5.9%	9594996	40	38	5.1%	9595007	36	35	2.8%				
In	9594982	< 1	< 1	0.0%	9594996	< 1	< 1	0.0%	9595007	< 1	< 1	0.0%				
K	9594982	0.15	0.13	14.3%	9594996	0.424	0.442	4.2%	9595007	0.48	0.48	0.0%				
La	9594982	3	3	0.0%	9594996	3	4	28.6%	9595007	3	3	0.0%				
Li	9594982	20	19	5.1%	9594996	17	18	5.7%	9595007	20	20	0.0%				
Mg	9594982	4.96	4.86	2.0%	9594996	6.41	6.62	3.2%	9595007	5.04	5.08	0.8%				
Mn	9594982	1630	1580	3.1%	9594996	1720	1780	3.4%	9595007	1330	1350	1.5%				
Mo	9594982	2.5	1.8		9594996	2.1	3.6		9595007	3.2	3.2	0.0%				
Na	9594982	0.79	0.75	5.2%	9594996	2.07	2.13	2.9%	9595007	2.33	2.33	0.0%				
Ni	9594982	76.7	75.8	1.2%	9594996	86.7	84.3	2.8%	9595007	64.5	66.0	2.3%				
P	9594982	172	182	5.6%	9594996	235	232	1.3%	9595007	214	225	5.0%				
S	9594982	0.44	0.44	0.0%	9594996	0.081	0.088	8.3%	9595007	0.09	0.09	0.0%				
Sb	9594982	< 1	2		9594996	2	< 1		9595007	< 1	1					
Sc	9594982	47	47	0.0%	9594996	55	55	0.0%	9595007	45	46	2.2%				
Se	9594982	< 10	< 10	0.0%	9594996	< 10	< 10	0.0%	9595007	< 10	< 10	0.0%				
Sn	9594982	< 5	< 5	0.0%	9594996	< 5	< 5	0.0%	9595007	< 5	< 5	0.0%				
Sr	9594982	76	69	9.7%	9594996	94	96	2.1%	9595007	45	46	2.2%				
Ta	9594982	< 10	< 10	0.0%	9594996	< 10	< 10	0.0%	9595007	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9594982	< 10	< 10	0.0%	9594996	< 10	< 10	0.0%	9595007	< 10	< 10	0.0%				
Th	9594982	< 5	< 5	0.0%	9594996	< 5	< 5	0.0%	9595007	< 5	< 5	0.0%				
Ti	9594982	0.35	0.35	0.0%	9594996	0.47	0.48	2.1%	9595007	0.422	0.430	1.9%				
Tl	9594982	< 5	< 5	0.0%	9594996	< 5	< 5	0.0%	9595007	< 5	< 5	0.0%				
V	9594982	249	252	1.2%	9594996	310	310	0.0%	9595007	260	264	1.5%				
W	9594982	3	2		9594996	1	1	0.0%	9595007	2	1					
Y	9594982	16	16	0.0%	9594996	19	19	0.0%	9595007	17	17	0.0%				
Zn	9594982	78.4	77.6	1.0%	9594996	77.6	81.1	4.4%	9595007	68.4	68.8	0.6%				
Zr	9594982	10	9	10.5%	9594996	11	12	8.7%	9595007	13	13	0.0%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9594982	0.7	0.6	15.4%	9594996	0.15	0.20	28.6%	9595007	0.8	0.8	0.0%				
Rb	9594982	3.2	2.9	9.8%	9594996	7.5	7.4	1.3%	9595007	12.1	12.2	0.8%				
U	9594982	0.094	0.074		9594996	0.029	0.028	3.5%	9595007	0.038	0.037	2.7%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9594982	0.009	0.010	10.5%	9594996	0.0045	0.0039	14.3%	9595007	0.003	0.003	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW07)				CRM #3 (ref.Till-2)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.2	93%	90% - 110%					8.17	8.05	99%	90% - 110%				
As									26	25	96%	90% - 110%				
Ba	340	322	95%	90% - 110%					540	540	100%	90% - 110%				
Be	2.6	2.5	95%	90% - 110%					4.0	3.5	87%	90% - 110%				
Ca	5.72	5.64	99%	90% - 110%					0.907	0.91	100%	90% - 110%				
Ce	122	118	97%	90% - 110%					98	106	108%	90% - 110%				
Cr									60.3	55	91%	90% - 110%				
Cu									150	156	104%	90% - 110%				
Fe	4.34	4.33	100%	90% - 110%					3.77	3.82	101%	90% - 110%				
Ga	35	35	101%	90% - 110%												
K	1.37	1.47	108%	90% - 110%												
La	58	53	91%	90% - 110%					44	44	99%	90% - 110%				
Li	37	40	108%	90% - 110%					47	49	104%	90% - 110%				
Mg	0.325	0.31	95%	90% - 110%					1.10	1.16	105%	90% - 110%				
Mn									780	727	93%	90% - 110%				
Mo									14	13	92%	90% - 110%				
Na	5.267	5.455	104%	90% - 110%					1.624	1.71	105%	90% - 110%				
Ni									32	29	90%	90% - 110%				
P					750	690	92%	90% - 110%	750	690	92%	90% - 110%				
Sc					12	12	97%	90% - 110%	12	12	97%	90% - 110%				
Sr	1191	1107	93%	90% - 110%					144	154	107%	90% - 110%				
Ti	0.172	0.158	92%	90% - 110%					0.53	0.43	80%	90% - 110%				
V									77	74	96%	90% - 110%				
W									5	6	126%	90% - 110%				
Y	119	113	95%	90% - 110%												
Zn	93	93	100%	90% - 110%					130	123	95%	90% - 110%				

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.Till-2)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Pb	10	9	95%	90% - 110%	31	28	90%	90% - 110%								
Rb	55	51	92%	90% - 110%	143	135	94%	90% - 110%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)				CRM #3 (ref.Till-2)								
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits					
Au	2.01	2.02	100%	90% - 110%	6.56	7.17	109%	90% - 110%									



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00358  
 SAMPLING SITE:

AGAT WORK ORDER: 18B392480  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00359

AGAT WORK ORDER: 18B392482

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 02, 2018

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72434 (9595013)		3.46
A72435 (9595014)		3.49
A72436 (9595015)		3.20
A72437 (9595016)		3.61
A72438 (9595017)		3.61
A72439 (9595018)		4.06
A72440 (9595019)		3.76
A72441 (9595020)		3.22
A72442 (9595021)		3.66
A72443 (9595022)		1.08
A72444 (9595023)		2.05
A72445 (9595024)		2.65
A72446 (9595025)		0.07
A72447 (9595026)		2.45
A72448 (9595027)		1.84
A72449 (9595028)		2.37
A72450 (9595029)		1.71
A72451 (9595030)		2.21
A72452 (9595031)		1.13

Comments: RDL - Reported Detection Limit

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72434 (9595013)		<0.5	6.55	<1	176	1.8	8	6.28	<0.5	29	40.0	101	171	11.6	35
A72435 (9595014)		<0.5	6.85	<1	178	2.2	<1	6.27	<0.5	30	39.8	85.2	172	11.3	40
A72436 (9595015)		<0.5	6.56	<1	173	2.1	3	6.10	<0.5	31	42.6	81.3	165	11.2	39
A72437 (9595016)		<0.5	6.82	<1	182	2.2	12	6.40	<0.5	30	42.5	84.2	173	11.6	40
A72438 (9595017)		<0.5	6.75	<1	181	1.8	2	6.31	<0.5	30	40.9	83.1	170	11.5	38
A72439 (9595018)		<0.5	6.77	<1	174	2.5	5	6.28	<0.5	30	42.9	68.5	167	11.7	41
A72440 (9595019)		<0.5	6.79	<1	186	2.3	1	6.29	<0.5	31	42.9	75.9	168	11.4	43
A72441 (9595020)		<0.5	6.54	<1	186	2.2	<1	5.98	<0.5	31	40.6	137	181	11.8	40
A72442 (9595021)		<0.5	6.89	<1	199	2.0	5	6.39	<0.5	31	40.8	74.4	172	11.6	40
A72443 (9595022)		<0.5	6.84	<1	158	1.8	3	6.67	<0.5	28	37.1	71.6	172	11.3	35
A72444 (9595023)		<0.5	7.09	<1	69	0.5	<1	7.60	<0.5	4	45.3	316	56.6	8.38	36
A72445 (9595024)		<0.5	7.25	<1	96	<0.5	1	7.70	<0.5	4	45.9	303	101	8.53	35
A72446 (9595025)		<0.5	7.32	<1	199	1.3	8	6.53	<0.5	20	39.1	210	107	8.24	35
A72447 (9595026)		<0.5	7.15	<1	78	0.6	<1	8.26	<0.5	3	47.0	343	256	8.38	35
A72448 (9595027)		<0.5	6.84	<1	138	<0.5	<1	8.11	<0.5	4	45.5	337	214	7.99	32
A72449 (9595028)		<0.5	6.91	<1	183	<0.5	<1	8.18	<0.5	3	40.9	305	115	7.21	31
A72450 (9595029)		<0.5	6.29	<1	73	<0.5	<1	8.72	<0.5	3	40.9	282	50.4	6.30	32
A72451 (9595030)		<0.5	6.44	<1	138	0.7	<1	9.27	<0.5	3	41.4	324	192	6.55	33
A72452 (9595031)		<0.5	0.20	2	16	<0.5	<1	30.9	<0.5	<1	1.5	12.9	4.3	0.31	12

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 01, 2018	DATE RECEIVED: Oct 02, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72434 (9595013)	<1	0.45	11	9	2.90	1790	10.4	1.73	57.7	876	0.13	1	41	<10	
A72435 (9595014)	<1	0.48	12	11	2.90	1790	7.2	1.77	49.0	916	0.14	2	42	<10	
A72436 (9595015)	<1	0.47	12	9	2.79	1740	5.8	1.71	47.4	947	0.13	1	42	<10	
A72437 (9595016)	<1	0.49	12	10	2.94	1820	5.8	1.80	49.9	965	0.13	<1	42	<10	
A72438 (9595017)	<1	0.48	12	10	2.87	1790	6.2	1.80	48.0	949	0.13	<1	42	<10	
A72439 (9595018)	<1	0.47	12	10	2.77	1810	4.8	1.83	42.4	1030	0.13	<1	43	<10	
A72440 (9595019)	<1	0.47	12	9	2.86	1790	4.6	1.79	43.3	975	0.13	<1	43	<10	
A72441 (9595020)	<1	0.48	12	11	2.72	1800	21.5	1.76	169	948	0.16	<1	41	<10	
A72442 (9595021)	<1	0.50	12	10	2.91	1800	4.4	1.81	42.1	981	0.14	<1	42	<10	
A72443 (9595022)	<1	0.38	11	25	3.00	1690	3.3	1.74	42.5	931	0.21	1	40	<10	
A72444 (9595023)	<1	0.31	3	16	5.08	1850	3.1	1.18	109	212	0.02	<1	46	<10	
A72445 (9595024)	<1	0.37	3	12	5.04	1900	2.9	1.14	104	198	0.07	<1	46	<10	
A72446 (9595025)	<1	0.44	9	11	4.37	1420	1.2	2.23	108	965	0.10	<1	34	<10	
A72447 (9595026)	<1	0.30	3	14	4.49	1820	3.1	0.93	112	178	0.16	2	45	<10	
A72448 (9595027)	<1	0.42	2	27	4.42	1610	2.9	0.93	116	193	0.14	<1	44	<10	
A72449 (9595028)	<1	0.51	2	23	4.30	1440	3.2	0.82	98.4	187	0.07	<1	40	<10	
A72450 (9595029)	<1	0.39	2	27	3.72	1210	3.7	0.77	95.0	198	0.04	<1	40	<10	
A72451 (9595030)	<1	0.45	2	27	3.49	1310	2.0	0.70	99.0	190	0.13	<1	40	<10	
A72452 (9595031)	<1	0.02	2	2	2.08	93	2.8	0.05	2.8	103	0.03	<1	<1	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
Sample ID (AGAT ID)												
A72434 (9595013)	<5	130	<10	<10	<5	0.93	<5	349	4	38	140	122
A72435 (9595014)	<5	128	<10	<10	<5	0.95	<5	364	3	39	137	135
A72436 (9595015)	<5	125	<10	<10	<5	0.94	<5	371	5	41	134	139
A72437 (9595016)	<5	131	<10	<10	<5	0.96	<5	366	3	40	140	135
A72438 (9595017)	<5	130	<10	<10	<5	0.96	<5	368	5	39	137	136
A72439 (9595018)	<5	132	<10	<10	<5	1.01	<5	388	3	41	140	132
A72440 (9595019)	<5	131	<10	<10	<5	0.96	<5	380	2	42	136	143
A72441 (9595020)	<5	124	<10	<10	<5	0.93	<5	361	6	39	133	140
A72442 (9595021)	<5	137	<10	<10	<5	0.98	<5	369	2	40	144	146
A72443 (9595022)	<5	147	<10	<10	<5	0.96	<5	347	3	38	111	133
A72444 (9595023)	<5	80	<10	<10	<5	0.38	<5	266	3	16	78.2	25
A72445 (9595024)	<5	74	<10	<10	<5	0.39	<5	263	4	16	80.2	20
A72446 (9595025)	<5	259	<10	<10	<5	0.84	<5	244	4	22	97.7	88
A72447 (9595026)	<5	86	<10	<10	<5	0.37	<5	258	4	15	76.8	15
A72448 (9595027)	<5	70	<10	<10	<5	0.35	<5	245	2	14	75.2	11
A72449 (9595028)	<5	67	<10	<10	<5	0.35	<5	225	3	13	68.8	8
A72450 (9595029)	<5	70	<10	<10	<5	0.32	<5	229	3	12	60.9	7
A72451 (9595030)	<5	61	<10	<10	<5	0.31	<5	231	3	14	69.8	7
A72452 (9595031)	<5	68	<10	<10	<5	0.01	<5	6.5	2	2	7.0	<5

Comments: RDL - Reported Detection Limit

9595013-9595031 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 01, 2018      DATE RECEIVED: Oct 02, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72434 (9595013)		3.3	16.5	0.564
A72435 (9595014)		4.0	16.7	0.548
A72436 (9595015)		4.0	17.4	0.592
A72437 (9595016)		4.0	15.9	0.557
A72438 (9595017)		4.1	16.4	0.582
A72439 (9595018)		3.9	15.7	0.526
A72440 (9595019)		4.0	16.8	0.600
A72441 (9595020)		3.6	17.3	0.609
A72442 (9595021)		3.5	16.7	0.589
A72443 (9595022)		3.2	13.2	0.533
A72444 (9595023)		0.3	7.8	0.046
A72445 (9595024)		0.5	12.1	0.050
A72446 (9595025)		2.5	10.4	0.373
A72447 (9595026)		0.7	9.3	0.043
A72448 (9595027)		0.6	13.7	0.047
A72449 (9595028)		0.3	19.5	0.052
A72450 (9595029)		1.0	13.2	0.044
A72451 (9595030)		3.3	16.1	0.046
A72452 (9595031)		3.9	0.6	0.137

Comments: RDL - Reported Detection Limit  
 9595013-9595031 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 01, 2018      DATE RECEIVED: Oct 02, 2018      DATE REPORTED: Nov 02, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72434 (9595013)			0.008
A72435 (9595014)			0.005
A72436 (9595015)			0.002
A72437 (9595016)			0.002
A72438 (9595017)			0.004
A72439 (9595018)			0.002
A72440 (9595019)			0.004
A72441 (9595020)			0.002
A72442 (9595021)			0.002
A72443 (9595022)			0.002
A72444 (9595023)			0.003
A72445 (9595024)			0.007
A72446 (9595025)			0.351
A72447 (9595026)			0.004
A72448 (9595027)			0.002
A72449 (9595028)			0.003
A72450 (9595029)			0.003
A72451 (9595030)			0.032
A72452 (9595031)			0.002

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 01, 2018

DATE RECEIVED: Oct 02, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72434 (9595013)	86

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B392482

PROJECT: AGAT00359

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 01, 2018	DATE RECEIVED: Oct 02, 2018	DATE REPORTED: Nov 02, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72434 (9595013)	85.8

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9595013	< 0.5	< 0.5	0.0%	9595027	< 0.5	< 0.5	0.0%								
Al	9595013	6.55	6.72	2.6%	9595027	6.84	6.66	2.7%								
As	9595013	< 1	< 1	0.0%	9595027	< 1	< 1	0.0%								
Ba	9595013	176	176	0.0%	9595027	138	134	2.9%								
Be	9595013	1.8	1.9	5.4%	9595027	0.5	0.5	0.0%								
Bi	9595013	8	10	22.2%	9595027	< 1	< 1	0.0%								
Ca	9595013	6.28	6.40	1.9%	9595027	8.11	7.54	7.3%								
Cd	9595013	< 0.5	< 0.5	0.0%	9595027	< 0.5	< 0.5	0.0%								
Ce	9595013	29	30	3.4%	9595027	4	3	28.6%								
Co	9595013	40.0	37.9	5.4%	9595027	45.5	46.5	2.2%								
Cr	9595013	101	87.3	14.6%	9595027	337	333	1.2%								
Cu	9595013	171	167	2.4%	9595027	214	202	5.8%								
Fe	9595013	11.6	11.6	0.0%	9595027	7.99	7.64	4.5%								
Ga	9595013	35	40	13.3%	9595027	32	33	3.1%								
In	9595013	< 1	< 1	0.0%	9595027	< 1	< 1	0.0%								
K	9595013	0.45	0.45	0.0%	9595027	0.42	0.41	2.4%								
La	9595013	11	12	8.7%	9595027	2	2	0.0%								
Li	9595013	9	8	11.8%	9595027	27	26	3.8%								
Mg	9595013	2.90	2.89	0.3%	9595027	4.42	4.31	2.5%								
Mn	9595013	1790	1780	0.6%	9595027	1610	1580	1.9%								
Mo	9595013	10.4	6.6		9595027	2.9	3.1	6.7%								
Na	9595013	1.73	1.80	4.0%	9595027	0.930	0.862	7.6%								
Ni	9595013	57.7	49.4	15.5%	9595027	116	113	2.6%								
P	9595013	876	878	0.2%	9595027	193	192	0.5%								
S	9595013	0.127	0.125	1.6%	9595027	0.14	0.13	7.4%								
Sb	9595013	1	< 1		9595027	< 1	< 1	0.0%								
Sc	9595013	41	41	0.0%	9595027	44	43	2.3%								
Se	9595013	< 10	< 10	0.0%	9595027	< 10	< 10	0.0%								
Sn	9595013	< 5	< 5	0.0%	9595027	< 5	< 5	0.0%								
Sr	9595013	130	130	0.0%	9595027	70	65	7.4%								
Ta	9595013	< 10	< 10	0.0%	9595027	< 10	< 10	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9595013	< 10	< 10	0.0%	9595027	< 10	< 10	0.0%												
Th	9595013	< 5	< 5	0.0%	9595027	< 5	< 5	0.0%												
Ti	9595013	0.93	0.97	4.2%	9595027	0.354	0.344	2.9%												
Tl	9595013	< 5	< 5	0.0%	9595027	< 5	< 5	0.0%												
V	9595013	349	361	3.4%	9595027	245	242	1.2%												
W	9595013	4	3	28.6%	9595027	2	4													
Y	9595013	38	39	2.6%	9595027	14	14	0.0%												
Zn	9595013	140	135	3.6%	9595027	75.2	70.9	5.9%												
Zr	9595013	122	127	4.0%	9595027	11	11	0.0%												

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2																	
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD														
Pb	9595013	3.3	3.1	6.3%	9595027	0.58	0.52	10.9%														
Rb	9595013	16.5	16.3	1.2%	9595027	13.7	13.7	0.0%														
U	9595013	0.564	0.539	4.5%	9595027	0.0465	0.0463	0.4%														

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2																	
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD														
Au	9595013	0.008	0.005		9595027	0.002	0.004															



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.15	93%	90% - 110%												
Ba	340	326	96%	90% - 110%												
Be	2.6	2.7	105%	90% - 110%												
Ca	5.72	5.55	97%	90% - 110%												
Ce	122	116	95%	90% - 110%												
Fe	4.34	4.22	97%	90% - 110%												
Ga	35	37.7	108%	90% - 110%												
K	1.37	1.24	91%	90% - 110%												
La	58	51	88%	90% - 110%												
Li	37	39	104%	90% - 110%												
Mg	0.325	0.296	91%	90% - 110%												
Na	5.267	4.942	94%	90% - 110%												
Sr	1191	1178	99%	90% - 110%												
Ti	0.172	0.156	91%	90% - 110%												
V	8	6	73%	90% - 110%												
Y	119	121	102%	90% - 110%												
Zn	93	92	99%	90% - 110%												

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Pb	10	8	82%	90% - 110%												
Rb	55	49	90%	90% - 110%												

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.WW03)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	6.56	6.46	98%	90% - 110%	2.01	2.03	100%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00359  
 SAMPLING SITE:

AGAT WORK ORDER: 18B392482  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00365

AGAT WORK ORDER: 18B393071

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 01, 2018

PAGES (INCLUDING COVER): 16

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72453 (9599037)		1.43
A72454 (9599038)		2.61
A72455 (9599039)		1.86
A72456 (9599040)		2.11
A72457 (9599041)		1.27
A72458 (9599042)		1.27
A72459 (9599043)		1.91
A72460 (9599044)		2.47
A72461 (9599045)		2.42
A72462 (9599046)		2.30
A72463 (9599047)		1.75
A72464 (9599048)		1.82
A72465 (9599049)		1.44
A72466 (9599050)		0.07
A72467 (9599051)		1.06
A72468 (9599052)		1.48
A72469 (9599053)		1.50
A72470 (9599054)		0.73
A72471 (9599055)		1.25
A72472 (9599056)		1.05
A72473 (9599057)		1.43
A72474 (9599058)		1.40
A72475 (9599059)		1.82
A72476 (9599060)		2.15
A72477 (9599061)		1.85
A72478 (9599062)		1.85
A72479 (9599063)		0.65
A72480 (9599064)		2.07
A72481 (9599065)		3.27
A72482 (9599066)		2.33
A72483 (9599067)		2.24

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(200-) Sample Login Weight

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 03, 2018							DATE REPORTED: Nov 01, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72453 (9599037)	<0.5	7.23	<1	68	1.8	6	6.59	<0.5	10	48.9	116	60.8	9.25	37	
A72454 (9599038)	<0.5	6.99	<1	137	1.6	4	5.85	<0.5	10	46.1	108	99.4	9.18	41	
A72455 (9599039)	<0.5	6.63	<1	90	1.1	3	5.08	<0.5	9	44.4	93.0	118	12.5	40	
A72456 (9599040)	<0.5	6.18	<1	122	1.4	5	8.01	<0.5	8	38.6	63.9	118	10.9	33	
A72457 (9599041)	<0.5	7.07	<1	124	1.5	7	6.55	<0.5	10	39.2	69.0	63.9	11.7	37	
A72458 (9599042)	<0.5	7.10	<1	124	1.5	13	6.65	<0.5	10	40.1	73.2	63.4	11.9	37	
A72459 (9599043)	<0.5	7.51	<1	82	1.3	5	6.96	<0.5	10	41.4	78.9	33.9	11.2	41	
A72460 (9599044)	<0.5	7.36	<1	93	1.3	8	7.26	<0.5	11	40.4	53.3	61.1	9.20	35	
A72461 (9599045)	<0.5	7.45	<1	219	1.4	4	6.83	<0.5	10	41.2	30.5	122	10.0	37	
A72462 (9599046)	<0.5	7.96	<1	163	1.6	6	6.07	<0.5	10	44.2	34.0	56.8	10.1	39	
A72463 (9599047)	<0.5	7.67	<1	42	1.5	6	6.58	<0.5	9	42.7	28.8	45.7	10.1	38	
A72464 (9599048)	<0.5	7.08	<1	78	1.0	8	7.16	<0.5	9	40.5	31.5	103	9.41	39	
A72465 (9599049)	<0.5	7.72	<1	58	1.5	5	6.19	<0.5	9	45.3	34.1	90.8	10.4	38	
A72466 (9599050)	<0.5	7.77	<1	201	2.3	7	6.64	<0.5	21	40.9	179	108	7.97	38	
A72467 (9599051)	<0.5	3.31	<1	30	0.5	2	8.03	<0.5	3	15.9	33.2	114	3.72	18	
A72468 (9599052)	<0.5	7.90	<1	49	1.1	5	5.77	<0.5	9	46.4	39.5	313	11.0	41	
A72469 (9599053)	<0.5	6.95	<1	42	1.5	2	5.88	<0.5	8	40.2	33.8	44.7	9.35	37	
A72470 (9599054)	<0.5	6.98	<1	47	1.1	2	4.84	<0.5	9	43.8	52.6	87.4	10.3	37	
A72471 (9599055)	<0.5	4.61	<1	38	1.2	<1	4.22	<0.5	7	26.4	63.3	61.3	6.45	27	
A72472 (9599056)	<0.5	0.08	2	13	<0.5	<1	32.8	<0.5	<1	0.7	7.3	<0.5	0.17	12	
A72473 (9599057)	<0.5	8.16	<1	60	1.4	<1	7.36	<0.5	9	42.5	36.3	68.5	10.1	39	
A72474 (9599058)	<0.5	7.64	<1	65	1.2	2	6.53	<0.5	9	44.8	36.7	87.1	9.22	36	
A72475 (9599059)	<0.5	7.65	<1	63	1.4	7	6.20	<0.5	9	47.8	37.1	13.4	9.36	37	
A72476 (9599060)	<0.5	7.85	<1	52	1.3	9	7.11	<0.5	10	47.7	36.7	44.3	9.67	42	
A72477 (9599061)	<0.5	7.35	<1	68	1.2	3	6.19	<0.5	9	46.2	28.0	143	9.93	36	
A72478 (9599062)	<0.5	7.38	<1	67	1.3	4	6.10	<0.5	8	46.3	29.6	144	9.79	37	
A72479 (9599063)	<0.5	3.32	<1	187	1.0	<1	3.39	<0.5	5	22.4	51.0	20.6	4.20	21	
A72480 (9599064)	<0.5	7.84	<1	62	1.5	<1	6.36	<0.5	9	42.8	33.5	93.2	8.43	36	
A72481 (9599065)	<0.5	7.49	<1	85	1.2	5	6.18	<0.5	9	43.3	41.5	87.9	8.64	36	
A72482 (9599066)	<0.5	7.51	<1	78	1.5	3	6.40	<0.5	9	46.7	33.2	78.5	8.58	36	
A72483 (9599067)	<0.5	7.45	<1	85	1.3	2	6.53	<0.5	9	44.7	32.8	77.1	8.13	35	

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AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 03, 2018					DATE REPORTED: Nov 01, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72453 (9599037)	<1	0.25	4	14	2.41	1870	4.7	1.68	78.6	417	<20	<50	0.09	2	
A72454 (9599038)	<1	0.24	4	13	2.47	2120	4.2	1.63	76.3	389	<20	<50	0.11	<1	
A72455 (9599039)	<1	0.24	3	11	3.74	2870	3.6	1.17	73.4	355	<20	<50	0.25	<1	
A72456 (9599040)	<1	0.30	3	12	2.82	2810	3.2	0.75	60.0	342	<20	<50	0.35	<1	
A72457 (9599041)	<1	0.26	4	22	3.21	2840	2.9	0.89	68.0	396	<20	<50	0.13	4	
A72458 (9599042)	<1	0.26	3	22	3.26	2850	3.0	0.90	70.6	414	<20	<50	0.13	3	
A72459 (9599043)	<1	0.22	4	13	3.70	2810	3.6	1.15	69.1	387	<20	<50	0.05	2	
A72460 (9599044)	<1	0.16	4	13	3.44	2260	3.7	1.50	57.2	419	<20	<50	0.10	2	
A72461 (9599045)	<1	0.31	4	18	3.20	1980	4.0	1.68	42.0	382	<20	<50	0.19	4	
A72462 (9599046)	<1	0.35	3	16	3.18	1700	3.8	2.27	44.2	391	<20	<50	0.08	1	
A72463 (9599047)	<1	0.20	4	14	3.33	1700	4.0	2.14	43.0	387	<20	<50	0.11	1	
A72464 (9599048)	<1	0.23	3	14	2.96	1660	3.6	1.84	40.1	374	<20	<50	0.14	1	
A72465 (9599049)	<1	0.20	3	16	3.44	1620	2.6	2.30	45.5	405	<20	<50	0.15	1	
A72466 (9599050)	<1	0.46	9	10	4.52	1410	1.4	2.29	107	883	<20	<50	0.08	2	
A72467 (9599051)	<1	0.14	<2	20	1.24	961	6.0	0.87	15.1	216	<20	<50	0.16	<1	
A72468 (9599052)	<1	0.25	3	22	3.49	1780	3.4	1.72	45.8	380	<20	<50	0.42	3	
A72469 (9599053)	<1	0.18	3	13	3.14	1450	3.1	1.86	41.7	407	<20	<50	0.09	1	
A72470 (9599054)	<1	0.21	3	19	3.63	1650	6.0	1.61	44.6	343	<20	<50	0.11	1	
A72471 (9599055)	<1	0.13	3	17	2.24	991	7.2	1.11	30.5	244	<20	<50	0.11	<1	
A72472 (9599056)	<1	0.01	2	<1	2.65	79	2.5	0.04	1.1	81	<20	<50	<0.01	<1	
A72473 (9599057)	<1	0.21	3	22	3.54	1680	2.5	2.10	47.1	412	<20	<50	0.11	2	
A72474 (9599058)	<1	0.16	3	12	3.17	1640	3.0	2.05	49.5	403	<20	<50	0.14	1	
A72475 (9599059)	<1	0.21	3	13	3.57	1840	3.9	2.05	50.0	387	<20	<50	0.02	<1	
A72476 (9599060)	<1	0.22	4	14	3.58	1920	3.3	1.76	51.6	395	<20	<50	0.07	2	
A72477 (9599061)	<1	0.30	3	38	3.74	1910	2.6	1.92	43.6	336	<20	<50	0.11	<1	
A72478 (9599062)	<1	0.30	3	39	3.73	1930	2.3	1.91	42.7	333	<20	<50	0.10	2	
A72479 (9599063)	<1	0.17	<2	15	1.42	818	6.5	1.31	22.8	193	<20	<50	0.03	<1	
A72480 (9599064)	<1	0.24	3	20	3.28	1800	3.4	1.98	46.9	376	<20	<50	0.10	2	
A72481 (9599065)	<1	0.23	3	13	3.29	1780	4.7	1.83	59.5	389	<20	<50	0.16	1	
A72482 (9599066)	<1	0.24	3	15	3.30	1860	3.6	1.81	60.9	409	<20	<50	0.12	<1	
A72483 (9599067)	<1	0.33	3	19	3.15	1760	4.1	1.71	60.6	413	<20	<50	0.09	2	

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AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 03, 2018					DATE REPORTED: Nov 01, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72453 (9599037)	44	<10	<5	110	<10	<10	<5	0.77	<5	<50	333	3	29	102	
A72454 (9599038)	41	<10	<5	89	<10	<10	<5	0.77	<5	<50	323	3	27	101	
A72455 (9599039)	40	<10	<5	41	<10	<10	<5	0.71	<5	<50	294	2	26	130	
A72456 (9599040)	37	<10	<5	57	<10	<10	<5	0.64	<5	<50	259	3	24	92.1	
A72457 (9599041)	43	<10	<5	56	<10	<10	<5	0.73	<5	<50	297	2	28	104	
A72458 (9599042)	43	<10	<5	56	<10	<10	<5	0.74	<5	<50	297	2	28	105	
A72459 (9599043)	45	<10	<5	76	<10	<10	<5	0.78	<5	<50	319	3	28	119	
A72460 (9599044)	45	<10	<5	83	<10	<10	<5	0.78	<5	<50	328	2	28	159	
A72461 (9599045)	46	<10	<5	83	<10	<10	<5	0.78	<5	<50	348	1	28	105	
A72462 (9599046)	49	<10	<5	81	<10	<10	<5	0.82	<5	<50	376	2	29	106	
A72463 (9599047)	47	<10	<5	97	<10	<10	<5	0.78	<5	<50	352	3	28	106	
A72464 (9599048)	42	<10	<5	81	<10	<10	<5	0.72	<5	<50	312	3	25	99.8	
A72465 (9599049)	48	<10	<5	95	<10	<10	<5	0.80	<5	<50	352	2	28	106	
A72466 (9599050)	34	<10	<5	250	<10	<10	<5	0.91	<5	<50	238	3	22	89.2	
A72467 (9599051)	14	<10	<5	70	<10	<10	<5	0.29	<5	<50	104	<1	10	48.8	
A72468 (9599052)	47	<10	<5	102	<10	<10	<5	0.80	<5	<50	348	2	28	124	
A72469 (9599053)	43	<10	<5	104	<10	<10	<5	0.72	<5	<50	330	3	25	99.2	
A72470 (9599054)	49	<10	<5	83	<10	<10	<5	0.81	<5	<50	368	3	29	121	
A72471 (9599055)	33	<10	<5	67	<10	<10	<5	0.52	<5	<50	222	1	19	73.3	
A72472 (9599056)	<1	<10	<5	69	<10	<10	<5	<0.01	<5	<50	2.1	<1	2	2.8	
A72473 (9599057)	49	<10	<5	126	<10	<10	<5	0.81	<5	<50	355	2	28	113	
A72474 (9599058)	48	<10	<5	118	<10	<10	<5	0.77	<5	<50	354	1	27	103	
A72475 (9599059)	49	<10	<5	115	<10	<10	<5	0.77	<5	<50	360	2	27	115	
A72476 (9599060)	50	<10	<5	118	<10	<10	<5	0.80	<5	<50	378	3	29	105	
A72477 (9599061)	46	<10	<5	101	<10	<10	<5	0.72	<5	<50	345	4	25	110	
A72478 (9599062)	45	<10	<5	100	<10	<10	<5	0.72	<5	<50	339	2	24	110	
A72479 (9599063)	21	<10	<5	64	<10	<10	<5	0.31	<5	<50	153	3	15	53.9	
A72480 (9599064)	48	<10	<5	123	<10	<10	<5	0.77	<5	<50	348	3	27	105	
A72481 (9599065)	46	<10	<5	113	<10	<10	<5	0.75	<5	<50	338	2	27	98.4	
A72482 (9599066)	48	<10	<5	111	<10	<10	<5	0.79	<5	<50	352	2	29	103	
A72483 (9599067)	46	<10	<5	106	<10	<10	<5	0.75	<5	<50	336	3	27	97.5	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72453 (9599037)				12
A72454 (9599038)				15
A72455 (9599039)				20
A72456 (9599040)				12
A72457 (9599041)				13
A72458 (9599042)				15
A72459 (9599043)				15
A72460 (9599044)				15
A72461 (9599045)				15
A72462 (9599046)				19
A72463 (9599047)				14
A72464 (9599048)				11
A72465 (9599049)				15
A72466 (9599050)				87
A72467 (9599051)				<5
A72468 (9599052)				14
A72469 (9599053)				12
A72470 (9599054)				18
A72471 (9599055)				10
A72472 (9599056)				<5
A72473 (9599057)				15
A72474 (9599058)				13
A72475 (9599059)				16
A72476 (9599060)				13
A72477 (9599061)				15
A72478 (9599062)				15
A72479 (9599063)				10
A72480 (9599064)				14
A72481 (9599065)				15
A72482 (9599066)				14
A72483 (9599067)				14

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**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9599037-9599067 As, Sb values may be low due to digestion losses.

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AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72453 (9599037)			0.008
A72454 (9599038)			0.002
A72455 (9599039)			0.002
A72456 (9599040)			0.002
A72457 (9599041)			0.001
A72458 (9599042)			0.001
A72459 (9599043)			0.001
A72460 (9599044)			0.002
A72461 (9599045)			0.001
A72462 (9599046)			0.001
A72463 (9599047)			0.002
A72464 (9599048)			<0.001
A72465 (9599049)			0.001
A72466 (9599050)			0.352
A72467 (9599051)			0.001
A72468 (9599052)			0.001
A72469 (9599053)			0.015
A72470 (9599054)			0.002
A72471 (9599055)			0.002
A72472 (9599056)			0.001
A72473 (9599057)			0.002
A72474 (9599058)			<0.001
A72475 (9599059)			0.001
A72476 (9599060)			0.003
A72477 (9599061)			0.001
A72478 (9599062)			0.001
A72479 (9599063)			0.002
A72480 (9599064)			<0.001
A72481 (9599065)			0.010
A72482 (9599066)			0.002
A72483 (9599067)			0.002

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PROJECT: AGAT00365

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 03, 2018

DATE REPORTED: Nov 01, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72453 (9599037)		80
A72470 (9599054)		88
A72473 (9599057)		83

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B393071

PROJECT: AGAT00365

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 03, 2018	DATE REPORTED: Nov 01, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72453 (9599037)		94
A72481 (9599065)		93

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9599037	< 0.5	< 0.5	0.0%	9599051	< 0.5	< 0.5	0.0%	9599062	< 0.5	< 0.5	0.0%				
Al	9599037	7.23	7.10	1.8%	9599051	3.31	3.36	1.5%	9599062	7.38	7.32	0.8%				
As	9599037	< 1	< 1	0.0%	9599051	< 1	< 1	0.0%	9599062	< 1	< 1	0.0%				
Ba	9599037	68	67	1.5%	9599051	30	31	3.3%	9599062	67	66	1.5%				
Be	9599037	1.8	1.1		9599051	0.5	0.5	0.0%	9599062	1.3	0.8					
Bi	9599037	6	6	0.0%	9599051	2	< 1		9599062	4	10					
Ca	9599037	6.59	6.58	0.2%	9599051	8.03	7.97	0.8%	9599062	6.10	6.07	0.5%				
Cd	9599037	< 0.5	< 0.5	0.0%	9599051	< 0.5	< 0.5	0.0%	9599062	< 0.5	< 0.5	0.0%				
Ce	9599037	10	10	0.0%	9599051	3	3	0.0%	9599062	8	8	0.0%				
Co	9599037	48.9	45.6	7.0%	9599051	15.9	15.4	3.2%	9599062	46.3	47.1	1.7%				
Cr	9599037	116	108	7.1%	9599051	33.2	32.9	0.9%	9599062	29.6	32.4	9.0%				
Cu	9599037	60.8	58.2	4.4%	9599051	114	114	0.0%	9599062	144	141	2.1%				
Fe	9599037	9.25	9.30	0.5%	9599051	3.72	3.77	1.3%	9599062	9.79	9.68	1.1%				
Ga	9599037	37	35	5.6%	9599051	18	19	5.4%	9599062	37	40	7.8%				
In	9599037	< 1	< 1	0.0%	9599051	< 1	< 1	0.0%	9599062	< 1	< 1	0.0%				
K	9599037	0.25	0.24	4.1%	9599051	0.14	0.14	0.0%	9599062	0.302	0.294	2.7%				
La	9599037	4	4	0.0%	9599051	< 2	< 2	0.0%	9599062	3	3	0.0%				
Li	9599037	14	13	7.4%	9599051	20	20	0.0%	9599062	39	38	2.6%				
Mg	9599037	2.41	2.33	3.4%	9599051	1.24	1.24	0.0%	9599062	3.73	3.67	1.6%				
Mn	9599037	1870	1880	0.5%	9599051	961	985	2.5%	9599062	1930	1910	1.0%				
Mo	9599037	4.7	4.0	16.1%	9599051	6.0	6.0	0.0%	9599062	2.3	2.3	0.0%				
Na	9599037	1.68	1.67	0.6%	9599051	0.869	0.864	0.6%	9599062	1.91	1.92	0.5%				
Ni	9599037	78.6	75.2	4.4%	9599051	15.1	14.9	1.3%	9599062	42.7	45.0	5.2%				
P	9599037	417	389	6.9%	9599051	216	219	1.4%	9599062	333	341	2.4%				
Pb	9599037	< 20	< 20	0.0%	9599051	< 20	< 20	0.0%	9599062	< 20	< 20	0.0%				
Rb	9599037	< 50	< 50	0.0%	9599051	< 50	< 50	0.0%	9599062	< 50	< 50	0.0%				
S	9599037	0.09	0.09	0.0%	9599051	0.16	0.16	0.0%	9599062	0.103	0.105	1.9%				
Sb	9599037	2	2	0.0%	9599051	< 1	< 1	0.0%	9599062	2	1					
Sc	9599037	44	41	7.1%	9599051	14	14	0.0%	9599062	45	46	2.2%				
Se	9599037	< 10	< 10	0.0%	9599051	< 10	< 10	0.0%	9599062	< 10	< 10	0.0%				
Sn	9599037	< 5	< 5	0.0%	9599051	< 5	< 5	0.0%	9599062	< 5	< 5	0.0%				





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9599037	110	109	0.9%	9599051	70	70	0.0%	9599062	100	100	0.0%				
Ta	9599037	< 10	< 10	0.0%	9599051	< 10	< 10	0.0%	9599062	< 10	< 10	0.0%				
Te	9599037	< 10	< 10	0.0%	9599051	< 10	< 10	0.0%	9599062	< 10	< 10	0.0%				
Th	9599037	< 5	< 5	0.0%	9599051	< 5	< 5	0.0%	9599062	< 5	< 5	0.0%				
Ti	9599037	0.773	0.776	0.4%	9599051	0.29	0.29	0.0%	9599062	0.718	0.713	0.7%				
Tl	9599037	< 5	< 5	0.0%	9599051	< 5	< 5	0.0%	9599062	< 5	< 5	0.0%				
U	9599037	< 50	< 50	0.0%	9599051	< 50	< 50	0.0%	9599062	< 50	< 50	0.0%				
V	9599037	333	319	4.3%	9599051	104	101	2.9%	9599062	339	353	4.0%				
W	9599037	3	2		9599051	< 1	1		9599062	2	1					
Y	9599037	29	27	7.1%	9599051	10	10	0.0%	9599062	24	25	4.1%				
Zn	9599037	102	102	0.0%	9599051	48.8	48.3	1.0%	9599062	110	109	0.9%				
Zr	9599037	12	11	8.7%	9599051	< 5	< 5	0.0%	9599062	15	16	6.5%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au		0.003	0.003	0.0%	9599051	0.001	< 0.001		9599062	0.001	0.001	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GTS-2a)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	9.92	91%	90% - 110%	6.96	6.88	99%	90% - 110%								
As					124	125	101%	90% - 110%								
Ba	340	320	94%	90% - 110%	186	184	99%	90% - 110%								
Be	2.6	2.6	99%	90% - 110%												
Ca	5.72	5.44	95%	90% - 110%	4.01	3.96	99%	90% - 110%								
Ce	122	111	90%	90% - 110%	24	22	91%	90% - 110%								
Co					22.1	21.7	98%	90% - 110%								
Cu					88.6	86	97%	90% - 110%								
Fe	4.34	4.01	92%	90% - 110%	7.56	7.24	96%	90% - 110%								
Ga	35	35.0	100%	90% - 110%												
K	1.37	1.4	102%	90% - 110%	2.021	2.059	102%	90% - 110%								
Li	37	38	103%	90% - 110%												
Mg	0.325	0.299	91%	90% - 110%	2.412	2.434	101%	90% - 110%								
Mn					1510	1479	98%	90% - 110%								
Na	5.267	5.131	97%	90% - 110%	0.617	0.607	98%	90% - 110%								
Ni					77.1	72.8	94%	90% - 110%								
P					892	937	105%	90% - 110%								
Pb	10	7	74%	90% - 110%												
S					0.348	0.325	93%	90% - 110%								
Sr	1191	1100	92%	90% - 110%	92.8	88.4	95%	90% - 110%								
Ti	0.172	0.169	98%	90% - 110%												
Y	119	108	90%	90% - 110%												
Zn	93	93	100%	90% - 110%	208	207	99%	90% - 110%								

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.GSP7L)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	0.709	0.758	107%	90% - 110%	2.01	1.97	98%	90% - 110%	6.56	7.1	108%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00365  
 SAMPLING SITE:

AGAT WORK ORDER: 18B393071  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00367

AGAT WORK ORDER: 18B393617

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 02, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72484 (9601934)		1.46
A72485 (9601935)		2.15
A72486 (9601936)		0.07
A72487 (9601937)		1.67
A72488 (9601938)		0.77
A72489 (9601939)		1.27
A72490 (9601940)		1.92
A72491 (9601941)		1.53
A72492 (9601942)		1.07
A72493 (9601943)		2.00
A72494 (9601944)		2.23
A72495 (9601945)		2.74
A72496 (9601946)		1.67
A72497 (9601947)		1.08
A72498 (9601948)		1.08
A72499 (9601949)		2.01
A72500 (9601950)		1.90
A72501 (9601951)		2.30
A72502 (9601952)		2.23
A72503 (9601953)		1.85
A72504 (9601954)		1.56
A72505 (9601955)		1.32
A72506 (9601956)		0.07
A72507 (9601957)		1.13
A72508 (9601958)		0.82
A72509 (9601959)		1.83
A72510 (9601960)		1.26
A72511 (9601961)		1.57
A72512 (9601962)		1.24

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 04, 2018							DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72484 (9601934)	<0.5	7.45	<1	985	1.7	<1	3.79	<0.5	78	14.6	89.2	70.5	2.95	26	
A72485 (9601935)	<0.5	7.36	3	972	1.7	<1	3.46	<0.5	84	17.0	101	66.4	3.15	27	
A72486 (9601936)	<0.5	7.32	<1	191	1.6	9	6.18	<0.5	19	39.1	151	107	7.52	35	
A72487 (9601937)	<0.5	7.19	2	718	1.5	<1	4.88	<0.5	87	15.5	131	16.0	3.24	29	
A72488 (9601938)	<0.5	5.60	2	422	1.5	<1	5.68	<0.5	38	52.0	670	28.0	5.52	29	
A72489 (9601939)	<0.5	3.73	3	117	0.7	<1	8.08	<0.5	6	76.5	1250	28.7	6.54	29	
A72490 (9601940)	<0.5	3.36	3	112	0.7	<1	9.41	<0.5	3	66.9	1020	29.7	6.17	28	
A72491 (9601941)	<0.5	3.32	4	99	0.5	<1	7.13	<0.5	1	75.4	1160	36.0	6.17	28	
A72492 (9601942)	<0.5	0.09	<1	13	<0.5	<1	29.9	<0.5	<1	1.0	11.9	<0.5	0.19	12	
A72493 (9601943)	<0.5	3.75	3	103	0.5	<1	7.21	<0.5	2	76.3	1210	46.1	6.99	34	
A72494 (9601944)	<0.5	3.90	3	74	0.6	<1	6.01	<0.5	2	66.9	1020	13.7	6.78	29	
A72495 (9601945)	<0.5	3.67	4	159	1.0	<1	7.41	<0.5	2	77.8	1280	43.1	6.57	31	
A72496 (9601946)	<0.5	4.55	2	298	1.3	<1	5.90	<0.5	13	68.0	1040	64.4	6.71	29	
A72497 (9601947)	<0.5	3.70	2	337	0.9	<1	8.29	<0.5	3	91.4	1410	74.6	6.61	29	
A72498 (9601948)	<0.5	3.68	2	324	1.0	<1	8.26	<0.5	3	94.2	1430	75.0	6.53	28	
A72499 (9601949)	<0.5	5.01	5	553	1.2	<1	7.68	<0.5	2	86.3	1340	46.4	6.61	31	
A72500 (9601950)	<0.5	7.55	<1	387	0.9	<1	5.05	<0.5	4	41.6	167	112	6.55	29	
A72501 (9601951)	<0.5	7.65	<1	332	0.9	<1	4.83	<0.5	5	38.2	219	81.9	6.39	28	
A72502 (9601952)	<0.5	7.01	<1	558	1.9	<1	5.30	<0.5	11	37.2	151	96.3	6.15	29	
A72503 (9601953)	<0.5	1.80	5	1750	3.6	2	14.8	<0.5	236	41.1	317	65.2	6.12	28	
A72504 (9601954)	<0.5	7.03	4	1590	2.5	<1	2.65	<0.5	82	5.6	46.9	5.6	1.96	25	
A72505 (9601955)	<0.5	7.68	<1	1210	2.1	<1	1.64	<0.5	67	5.8	34.5	22.9	1.90	24	
A72506 (9601956)	<0.5	7.19	<1	188	1.8	8	6.03	<0.5	19	39.1	148	102	7.36	36	
A72507 (9601957)	<0.5	7.65	5	904	2.4	<1	1.40	<0.5	65	5.2	34.4	24.9	1.76	24	
A72508 (9601958)	<0.5	8.07	<1	1560	2.5	<1	1.64	<0.5	81	4.5	28.5	9.3	1.71	24	
A72509 (9601959)	<0.5	7.69	3	1120	2.5	<1	1.74	<0.5	77	4.9	30.0	1.5	1.72	23	
A72510 (9601960)	<0.5	3.70	<1	791	5.5	6	7.62	<0.5	137	50.6	543	135	7.89	33	
A72511 (9601961)	<0.5	7.24	2	1110	2.4	<1	1.91	<0.5	77	5.3	39.0	9.7	1.66	24	
A72512 (9601962)	<0.5	0.17	<1	27	<0.5	<1	31.2	<0.5	<1	0.6	5.5	<0.5	0.17	12	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 04, 2018					DATE REPORTED: Nov 02, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1
A72484 (9601934)	<1	1.93	33	16	2.35	453	4.5	2.27	114	1040	<20	<50	0.06	2	
A72485 (9601935)	<1	2.38	37	15	2.83	454	3.8	2.13	133	1140	<20	<50	0.07	1	
A72486 (9601936)	<1	0.43	9	10	4.14	1320	0.9	2.28	112	892	<20	<50	0.08	2	
A72487 (9601937)	<1	1.99	38	13	3.61	513	3.2	2.03	156	578	<20	<50	0.02	2	
A72488 (9601938)	<1	1.60	17	16	7.66	927	2.7	1.28	618	584	<20	<50	0.04	1	
A72489 (9601939)	<1	1.36	6	14	10.2	1210	2.4	0.44	877	92	<20	<50	0.06	<1	
A72490 (9601940)	<1	0.83	4	12	9.85	1360	2.0	0.51	787	78	<20	<50	0.06	<1	
A72491 (9601941)	<1	0.90	4	7	10.7	1140	0.9	0.37	1000	83	<20	<50	0.07	<1	
A72492 (9601942)	<1	0.02	<2	<1	2.35	78	2.3	0.04	14.2	74	<20	<50	<0.01	2	
A72493 (9601943)	<1	0.73	4	13	11.0	1090	1.6	0.31	958	107	<20	<50	0.04	1	
A72494 (9601944)	<1	0.66	3	10	11.1	954	1.5	0.34	708	124	<20	<50	0.03	2	
A72495 (9601945)	<1	1.01	4	9	10.9	1120	0.6	0.49	978	54	<20	<50	0.06	<1	
A72496 (9601946)	<1	1.41	8	27	9.22	1180	2.2	1.19	862	219	<20	<50	0.12	<1	
A72497 (9601947)	<1	0.86	4	18	8.93	1410	1.5	1.11	1020	35	<20	<50	0.18	<1	
A72498 (9601948)	<1	0.84	4	18	8.87	1400	1.4	1.13	1100	33	<20	<50	0.18	<1	
A72499 (9601949)	<1	1.33	3	28	6.94	1460	1.8	1.35	758	40	<20	<50	0.04	<1	
A72500 (9601950)	<1	1.46	2	32	5.26	1390	2.7	2.69	150	172	<20	<50	0.02	2	
A72501 (9601951)	<1	1.13	3	29	5.45	1100	2.2	2.42	110	160	<20	<50	0.02	2	
A72502 (9601952)	<1	1.34	6	36	4.86	1100	2.0	1.87	115	239	<20	<50	0.04	2	
A72503 (9601953)	<1	0.51	117	23	6.48	2120	2.2	0.08	210	3060	<20	<50	0.11	<1	
A72504 (9601954)	<1	2.93	38	30	1.25	323	5.4	2.40	41.9	807	<20	<50	0.05	<1	
A72505 (9601955)	<1	2.94	30	34	0.95	221	4.6	2.84	37.6	697	<20	<50	0.21	<1	
A72506 (9601956)	<1	0.42	9	10	4.05	1300	1.1	2.24	113	886	<20	<50	0.08	<1	
A72507 (9601957)	<1	2.23	28	21	0.90	200	5.4	3.17	37.7	644	<20	<50	0.15	3	
A72508 (9601958)	<1	2.90	36	26	0.80	224	3.9	3.12	36.3	659	<20	<50	0.03	1	
A72509 (9601959)	<1	2.37	34	20	0.84	295	4.7	3.16	36.3	655	<20	<50	0.03	1	
A72510 (9601960)	<1	1.79	59	60	6.27	1320	2.5	1.84	269	785	21	<50	0.17	<1	
A72511 (9601961)	<1	1.91	34	20	0.75	276	5.1	3.32	38.6	627	<20	<50	0.04	<1	
A72512 (9601962)	<1	0.03	3	1	2.49	80	1.9	0.10	5.2	103	<20	<50	<0.01	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
A72484 (9601934)	10	<10	<5	1710	<10	<10	<5	0.26	<5	<50	66.4	1	11	48.7
A72485 (9601935)	9	<10	<5	1610	<10	<10	<5	0.28	<5	<50	70.8	3	11	59.1
A72486 (9601936)	32	<10	<5	244	<10	<10	<5	0.86	<5	<50	224	3	21	86.0
A72487 (9601937)	10	<10	<5	1120	<10	<10	<5	0.29	<5	<50	70.3	2	12	54.7
A72488 (9601938)	18	<10	<5	1100	<10	<10	<5	0.25	<5	<50	111	4	10	81.6
A72489 (9601939)	23	<10	<5	356	<10	<10	<5	0.21	<5	<50	131	4	8	73.0
A72490 (9601940)	21	<10	<5	427	<10	<10	<5	0.19	<5	<50	123	3	8	58.0
A72491 (9601941)	21	<10	<5	498	<10	<10	<5	0.19	<5	<50	124	5	8	74.9
A72492 (9601942)	<1	<10	<5	68	<10	<10	<5	<0.01	<5	<50	2.3	<1	2	5.0
A72493 (9601943)	25	<10	<5	428	<10	<10	<5	0.23	<5	<50	149	3	11	49.1
A72494 (9601944)	26	<10	<5	355	<10	<10	<5	0.25	<5	<50	154	2	10	48.3
A72495 (9601945)	23	<10	<5	605	<10	<10	<5	0.21	<5	<50	135	3	9	70.7
A72496 (9601946)	22	<10	<5	415	<10	<10	<5	0.25	<5	<50	131	3	10	71.9
A72497 (9601947)	23	<10	<5	804	<10	<10	<5	0.21	<5	<50	134	3	15	82.2
A72498 (9601948)	23	<10	<5	825	<10	<10	<5	0.21	<5	<50	141	4	16	81.0
A72499 (9601949)	31	<10	<5	614	<10	<10	<5	0.29	<5	<50	200	3	41	103
A72500 (9601950)	42	<10	<5	486	<10	<10	<5	0.37	<5	<50	214	2	16	85.5
A72501 (9601951)	44	<10	<5	503	<10	<10	<5	0.35	<5	<50	218	3	15	66.1
A72502 (9601952)	39	<10	<5	601	<10	<10	<5	0.34	<5	<50	198	2	11	75.4
A72503 (9601953)	16	<10	<5	661	<10	<10	<5	0.75	<5	<50	131	5	29	67.6
A72504 (9601954)	4	<10	<5	551	<10	<10	<5	0.21	<5	<50	41.9	4	16	41.9
A72505 (9601955)	4	<10	<5	560	<10	<10	<5	0.20	<5	<50	37.4	3	8	47.8
A72506 (9601956)	32	<10	<5	239	<10	<10	<5	0.85	<5	<50	225	3	21	83.1
A72507 (9601957)	4	<10	<5	648	<10	<10	<5	0.17	<5	<50	31.9	3	8	42.4
A72508 (9601958)	4	<10	<5	1100	<10	<10	<5	0.18	<5	<50	32.1	4	10	46.8
A72509 (9601959)	4	<10	<5	697	<10	<10	<5	0.18	<5	<50	31.7	3	9	50.3
A72510 (9601960)	23	<10	<5	800	<10	<10	<5	1.19	<5	<50	209	2	24	80.5
A72511 (9601961)	4	<10	<5	917	<10	<10	<5	0.18	<5	<50	34.2	1	10	43.1
A72512 (9601962)	<1	<10	<5	77	<10	<10	<5	0.01	<5	<50	2.0	<1	2	5.0

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72484 (9601934)				96
A72485 (9601935)				97
A72486 (9601936)				85
A72487 (9601937)				100
A72488 (9601938)				61
A72489 (9601939)				12
A72490 (9601940)				10
A72491 (9601941)				7
A72492 (9601942)				<5
A72493 (9601943)				15
A72494 (9601944)				11
A72495 (9601945)				11
A72496 (9601946)				32
A72497 (9601947)				16
A72498 (9601948)				16
A72499 (9601949)				39
A72500 (9601950)				16
A72501 (9601951)				10
A72502 (9601952)				21
A72503 (9601953)				82
A72504 (9601954)				143
A72505 (9601955)				123
A72506 (9601956)				85
A72507 (9601957)				125
A72508 (9601958)				129
A72509 (9601959)				123
A72510 (9601960)				87
A72511 (9601961)				129
A72512 (9601962)				<5

Comments: RDL - Reported Detection Limit  
 9601934-9601962 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72484 (9601934)			0.003
A72485 (9601935)			0.003
A72486 (9601936)			0.340
A72487 (9601937)			<0.001
A72488 (9601938)			0.006
A72489 (9601939)			0.004
A72490 (9601940)			0.005
A72491 (9601941)			0.006
A72492 (9601942)			0.001
A72493 (9601943)			0.007
A72494 (9601944)			0.007
A72495 (9601945)			0.003
A72496 (9601946)			0.006
A72497 (9601947)			0.002
A72498 (9601948)			0.014
A72499 (9601949)			0.023
A72500 (9601950)			0.149
A72501 (9601951)			0.008
A72502 (9601952)			0.013
A72503 (9601953)			0.001
A72504 (9601954)			2.07
A72505 (9601955)			0.069
A72506 (9601956)			0.328
A72507 (9601957)			0.029
A72508 (9601958)			0.014
A72509 (9601959)			0.003
A72510 (9601960)			0.004
A72511 (9601961)			0.004
A72512 (9601962)			<0.001

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72484 (9601934)		84
A72503 (9601953)		94

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Nov 02, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72484 (9601934)	94

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9601934	< 0.5	< 0.5	0.0%	9601948	< 0.5	< 0.5	0.0%	9601959	< 0.5	< 0.5	0.0%				
Al	9601934	7.45	7.52	0.9%	9601948	3.68	3.79	2.9%	9601959	7.69	7.90	2.7%				
As	9601934	< 1	< 1	0.0%	9601948	2	3		9601959	3	2					
Ba	9601934	985	997	1.2%	9601948	324	332	2.4%	9601959	1120	1130	0.9%				
Be	9601934	1.71	1.88	9.5%	9601948	1.0	1.0	0.0%	9601959	2.46	2.32	5.9%				
Bi	9601934	< 1	< 1	0.0%	9601948	< 1	< 1	0.0%	9601959	< 1	< 1	0.0%				
Ca	9601934	3.79	3.57	6.0%	9601948	8.26	8.60	4.0%	9601959	1.74	1.81	3.9%				
Cd	9601934	< 0.5	< 0.5	0.0%	9601948	< 0.5	< 0.5	0.0%	9601959	< 0.5	< 0.5	0.0%				
Ce	9601934	78	80	2.5%	9601948	3	2		9601959	77	75	2.6%				
Co	9601934	14.6	16.7	13.4%	9601948	94.2	90.2	4.3%	9601959	4.87	4.75	2.5%				
Cr	9601934	89.2	106	17.2%	9601948	1430	1420	0.7%	9601959	30.0	34.0	12.5%				
Cu	9601934	70.5	66.2	6.3%	9601948	75.0	75.3	0.4%	9601959	1.55	1.63	5.0%				
Fe	9601934	2.95	3.08	4.3%	9601948	6.53	6.75	3.3%	9601959	1.72	1.78	3.4%				
Ga	9601934	26	32	20.7%	9601948	28	25	11.3%	9601959	23	23	0.0%				
In	9601934	< 1	< 1	0.0%	9601948	< 1	< 1	0.0%	9601959	< 1	< 1	0.0%				
K	9601934	1.93	2.14	10.3%	9601948	0.836	0.855	2.2%	9601959	2.37	2.42	2.1%				
La	9601934	33	34	3.0%	9601948	4	4	0.0%	9601959	34	33	3.0%				
Li	9601934	16	18	11.8%	9601948	18	18	0.0%	9601959	20	20	0.0%				
Mg	9601934	2.35	2.48	5.4%	9601948	8.87	9.16	3.2%	9601959	0.838	0.867	3.4%				
Mn	9601934	453	448	1.1%	9601948	1400	1430	2.1%	9601959	295	298	1.0%				
Mo	9601934	4.5	4.2	6.9%	9601948	1.4	1.7	19.4%	9601959	4.70	4.45	5.5%				
Na	9601934	2.27	2.20	3.1%	9601948	1.13	1.17	3.5%	9601959	3.16	3.22	1.9%				
Ni	9601934	114	130	13.1%	9601948	1100	1020	7.5%	9601959	36.3	36.2	0.3%				
P	9601934	1040	1080	3.8%	9601948	33	24		9601959	655	644	1.7%				
Pb	9601934	< 20	< 20	0.0%	9601948	< 20	< 20	0.0%	9601959	< 20	< 20	0.0%				
Rb	9601934	< 50	< 50	0.0%	9601948	< 50	< 50	0.0%	9601959	< 50	< 50	0.0%				
S	9601934	0.061	0.066	7.9%	9601948	0.18	0.18	0.0%	9601959	0.03	0.03	0.0%				
Sb	9601934	2	< 1		9601948	< 1	< 1	0.0%	9601959	1	< 1					
Sc	9601934	10	10	0.0%	9601948	23	23	0.0%	9601959	4	3	28.6%				
Se	9601934	< 10	< 10	0.0%	9601948	< 10	< 10	0.0%	9601959	< 10	< 10	0.0%				
Sn	9601934	< 5	< 5	0.0%	9601948	< 5	< 5	0.0%	9601959	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9601934	1710	1680	1.8%	9601948	825	810	1.8%	9601959	697	700	0.4%				
Ta	9601934	< 10	< 10	0.0%	9601948	< 10	< 10	0.0%	9601959	< 10	< 10	0.0%				
Te	9601934	< 10	< 10	0.0%	9601948	< 10	< 10	0.0%	9601959	< 10	< 10	0.0%				
Th	9601934	< 5	< 5	0.0%	9601948	< 5	< 5	0.0%	9601959	< 5	< 5	0.0%				
Ti	9601934	0.26	0.28	7.4%	9601948	0.21	0.21	0.0%	9601959	0.18	0.18	0.0%				
Tl	9601934	< 5	< 5	0.0%	9601948	< 5	< 5	0.0%	9601959	< 5	< 5	0.0%				
U	9601934	< 50	< 50	0.0%	9601948	< 50	< 50	0.0%	9601959	< 50	< 50	0.0%				
V	9601934	66.4	73.7	10.4%	9601948	141	132	6.6%	9601959	31.7	31.5	0.6%				
W	9601934	1	2		9601948	4	2		9601959	3	2					
Y	9601934	11	11	0.0%	9601948	16	15	6.5%	9601959	9	9	0.0%				
Zn	9601934	48.7	51.8	6.2%	9601948	81.0	80.9	0.1%	9601959	50.3	50.1	0.4%				
Zr	9601934	96	99	3.1%	9601948	16	15	6.5%	9601959	123	119	3.3%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9601934	0.003	0.005		9601948	0.014	0.014	0.0%	9601959	0.003	0.005					



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.76	98%	90% - 110%	8.17	8.14	100%	90% - 110%								
As					26	26	101%	90% - 110%								
Ba	340	325	96%	90% - 110%	540	513	95%	90% - 110%								
Be	2.6	2.5	98%	90% - 110%	4.0	3.5	88%	90% - 110%								
Ca	5.72	5.17	90%	90% - 110%	0.907	0.859	95%	90% - 110%								
Ce	122	111	91%	90% - 110%	98	91	93%	90% - 110%								
Cr					60.3	58.8	98%	90% - 110%								
Cu					150	148	99%	90% - 110%								
Fe	4.34	4	92%	90% - 110%	3.77	3.61	96%	90% - 110%								
Ga	35	37	106%	90% - 110%												
K	1.37	1.39	101%	90% - 110%												
La	58	53	91%	90% - 110%	44	41	93%	90% - 110%								
Li	37	37	101%	90% - 110%	47	46	98%	90% - 110%								
Mg	0.325	0.305	94%	90% - 110%	1.10	1.06	97%	90% - 110%								
Mn					780	744	95%	90% - 110%								
Mo					14	13	91%	90% - 110%								
Na	5.267	5.098	97%	90% - 110%	1.624	1.679	103%	90% - 110%								
Ni	9	7	77%	90% - 110%	32	33	105%	90% - 110%								
P					750	728	97%	90% - 110%								
Pb					31	32	102%	90% - 110%								
Sc					12	11	95%	90% - 110%								
Sr	1191	1133	95%	90% - 110%	144	149	103%	90% - 110%								
Ta					1.9	1.9	102%	90% - 110%								
Ti	0.172	0.169	98%	90% - 110%	0.53	0.45	85%	90% - 110%								
V					77	73	94%	90% - 110%								
W					5	5	106%	90% - 110%								
Y	119	116	97%	90% - 110%												
Zn	93	90	97%	90% - 110%	130	119	91%	90% - 110%								

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.WW07)				CRM #3 (ref.WW07)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				



**AGAT** Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B393617

PROJECT: AGAT00367

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Au	6.56	6.08	93%	90% - 110%	6.56	7.12	109%	90% - 110%	6.56	6.62	101%	90% - 110%				
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## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00367  
 SAMPLING SITE:

AGAT WORK ORDER: 18B393617  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00368

AGAT WORK ORDER: 18B393620

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 20, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72513 (9601964)		2.20
A72514 (9601965)		1.82
A72515 (9601966)		2.26
A72516 (9601967)		1.48
A72517 (9601968)		1.51
A72518 (9601969)		1.51
A72519 (9601970)		0.81
A72520 (9601971)		1.34
A72521 (9601972)		1.61
A72522 (9601973)		1.56
A72523 (9601974)		2.18
A72524 (9601975)		2.16
A72525 (9601976)		2.17
A72526 (9601977)		0.07
A72527 (9601978)		1.85
A72528 (9601979)		2.39
A72529 (9601980)		2.01
A72530 (9601981)		2.14
A72531 (9601982)		1.94
A72532 (9601983)		1.17
A72533 (9601984)		2.28
A72534 (9601985)		1.91
A72535 (9601986)		2.27
A72536 (9601987)		2.12
A72537 (9601988)		1.59
A72538 (9601989)		1.59
A72539 (9601990)		1.99

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72513 (9601964)		<0.5	7.66	5	1190	2.4	<1	2.10	<0.5	85	5.7	22.1	15.3	1.84	24
A72514 (9601965)		<0.5	7.46	<1	1140	2.5	<1	2.16	<0.5	85	5.0	15.6	6.6	1.82	24
A72515 (9601966)		0.6	7.56	2	1190	2.7	<1	1.90	<0.5	86	6.3	17.6	45.8	1.90	25
A72516 (9601967)		<0.5	7.47	4	941	2.3	<1	3.62	<0.5	70	19.6	39.8	33.8	4.07	30
A72517 (9601968)		<0.5	7.57	<1	1000	2.2	<1	3.50	<0.5	72	19.0	58.7	19.6	4.11	33
A72518 (9601969)		<0.5	7.04	1	820	3.0	<1	3.64	<0.5	73	16.1	51.6	21.6	3.37	29
A72519 (9601970)		<0.5	7.59	<1	985	2.2	<1	3.71	<0.5	75	16.1	37.2	15.7	3.54	31
A72520 (9601971)		<0.5	7.77	5	1170	2.9	<1	1.19	<0.5	80	5.1	21.7	19.8	1.93	24
A72521 (9601972)		<0.5	7.76	6	2060	2.4	<1	2.10	<0.5	85	4.6	21.3	13.2	1.83	24
A72522 (9601973)		<0.5	7.41	<1	1000	2.2	<1	3.48	<0.5	72	19.1	61.0	17.4	4.00	33
A72523 (9601974)		<0.5	7.78	<1	969	2.3	<1	2.88	<0.5	72	14.9	29.4	15.5	3.33	30
A72524 (9601975)		<0.5	7.73	4	1050	2.1	<1	2.71	<0.5	72	12.0	40.3	40.9	3.11	30
A72525 (9601976)		<0.5	8.27	4	1030	2.1	<1	3.05	<0.5	74	12.7	44.0	8.2	3.43	30
A72526 (9601977)		<0.5	6.98	<1	192	1.6	3	6.57	<0.5	20	40.4	167	103	7.93	36
A72527 (9601978)		<0.5	7.65	3	1100	2.0	<1	3.59	<0.5	73	17.7	56.3	39.5	4.10	30
A72528 (9601979)		<0.5	7.29	3	1090	2.5	<1	2.14	<0.5	85	5.8	13.9	22.1	1.84	25
A72529 (9601980)		<0.5	7.37	3	895	2.9	<1	3.12	<0.5	57	9.5	37.2	26.0	2.64	28
A72530 (9601981)		<0.5	7.33	7	1020	3.1	<1	3.12	<0.5	47	11.8	57.9	13.3	2.98	29
A72531 (9601982)		<0.5	6.88	2	709	3.8	<1	3.05	<0.5	48	11.0	45.4	13.1	2.63	29
A72532 (9601983)		<0.5	0.10	<1	17	<0.5	<1	31.1	<0.5	<1	0.5	3.4	<0.5	0.18	15
A72533 (9601984)		<0.5	6.82	3	613	3.3	<1	4.28	<0.5	48	11.6	44.0	17.3	2.97	28
A72534 (9601985)		<0.5	7.37	2	805	3.0	2	2.96	<0.5	47	11.4	53.7	13.5	2.94	28
A72535 (9601986)		<0.5	7.07	2	765	1.9	<1	2.78	<0.5	45	12.4	56.1	29.6	2.90	28
A72536 (9601987)		<0.5	7.45	1	727	2.3	<1	2.83	<0.5	48	11.7	53.3	15.8	2.97	29
A72537 (9601988)		<0.5	7.35	<1	876	4.2	<1	2.80	<0.5	48	11.9	50.5	12.0	2.83	29
A72538 (9601989)		<0.5	7.25	4	862	4.0	<1	2.77	<0.5	48	12.1	67.1	12.3	2.76	27
A72539 (9601990)		<0.5	7.44	<1	761	2.8	<1	2.96	<0.5	46	11.8	41.2	3.8	2.89	28

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 04, 2018					DATE REPORTED: Oct 20, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72513 (9601964)	<1	2.23	37	8	0.67	376	5.2	3.19	15.4	749	0.17	<1	4	<10	
A72514 (9601965)	<1	2.26	38	10	0.67	351	6.0	3.24	15.3	742	0.07	<1	4	<10	
A72515 (9601966)	<1	2.71	38	14	0.72	348	15.8	3.15	16.9	703	0.28	<1	4	<10	
A72516 (9601967)	<1	2.37	31	18	2.09	667	4.9	2.85	41.5	986	0.08	<1	14	<10	
A72517 (9601968)	<1	2.48	31	19	2.14	658	3.6	2.83	41.6	1020	0.04	<1	14	<10	
A72518 (9601969)	<1	2.45	32	27	1.65	585	4.1	2.76	35.5	844	0.03	<1	12	<10	
A72519 (9601970)	<1	2.35	32	16	1.75	632	4.1	2.91	35.2	988	0.04	<1	12	<10	
A72520 (9601971)	<1	2.73	35	16	0.77	208	4.0	3.26	16.2	985	<0.01	<1	4	<10	
A72521 (9601972)	<1	2.44	37	14	0.76	334	4.4	3.48	16.3	791	0.06	<1	5	<10	
A72522 (9601973)	<1	2.42	31	19	2.08	646	3.7	2.83	40.8	1040	0.04	1	14	<10	
A72523 (9601974)	<1	2.10	32	16	1.56	534	3.6	3.25	29.7	988	0.09	<1	10	<10	
A72524 (9601975)	<1	1.96	31	13	1.37	462	3.7	3.35	26.9	959	0.29	<1	8	<10	
A72525 (9601976)	<1	2.03	32	13	1.54	537	4.5	3.50	27.9	1010	0.06	<1	9	<10	
A72526 (9601977)	<1	0.42	9	10	4.18	1360	1.3	2.19	107	977	0.09	<1	35	<10	
A72527 (9601978)	<1	2.46	32	17	2.08	685	4.7	2.80	41.1	1000	0.11	<1	13	<10	
A72528 (9601979)	<1	2.29	38	9	0.76	383	4.8	3.08	15.4	688	0.06	<1	4	<10	
A72529 (9601980)	<1	1.98	25	12	1.27	543	5.4	3.42	28.1	750	0.05	3	8	<10	
A72530 (9601981)	<1	1.70	21	11	1.46	484	5.0	3.49	31.8	696	0.05	<1	9	<10	
A72531 (9601982)	<1	1.78	21	14	1.23	450	5.0	3.46	30.8	576	0.03	<1	9	<10	
A72532 (9601983)	<1	0.03	3	1	3.37	84	2.6	0.05	0.8	101	0.03	<1	<1	<10	
A72533 (9601984)	<1	2.22	20	13	1.69	584	4.1	3.37	29.5	414	0.04	<1	9	<10	
A72534 (9601985)	<1	1.71	21	19	1.39	461	4.9	3.45	33.6	686	0.02	<1	9	<10	
A72535 (9601986)	<1	1.56	20	14	1.45	432	4.3	3.21	34.9	711	0.02	<1	8	<10	
A72536 (9601987)	<1	1.58	20	16	1.47	446	3.9	3.45	35.2	704	0.03	<1	9	<10	
A72537 (9601988)	<1	1.83	21	14	1.41	415	4.0	3.24	35.3	717	0.03	<1	9	<10	
A72538 (9601989)	<1	1.79	21	14	1.39	409	4.2	3.25	34.9	736	0.03	<1	9	<10	
A72539 (9601990)	<1	1.79	20	17	1.43	417	4.1	3.32	34.4	683	0.02	2	9	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
Sample ID (AGAT ID)												
A72513 (9601964)	<5	707	<10	<10	<5	0.17	<5	34.2	2	10	59.4	137
A72514 (9601965)	<5	681	<10	<10	<5	0.16	<5	33.5	2	12	66.6	74
A72515 (9601966)	<5	596	<10	<10	<5	0.16	<5	36.5	3	11	60.9	138
A72516 (9601967)	<5	1000	<10	<10	<5	0.33	<5	104	3	21	83.9	94
A72517 (9601968)	<5	1170	<10	<10	<5	0.34	<5	108	2	20	87.1	116
A72518 (9601969)	<5	703	<10	<10	<5	0.26	<5	85.6	2	17	94.1	108
A72519 (9601970)	<5	954	<10	<10	<5	0.31	<5	94.2	4	18	75.1	88
A72520 (9601971)	<5	581	<10	<10	<5	0.17	<5	37.8	2	12	48.8	141
A72521 (9601972)	<5	866	<10	<10	<5	0.18	<5	43.1	1	11	43.7	132
A72522 (9601973)	<5	1170	<10	<10	<5	0.33	<5	107	3	19	83.5	114
A72523 (9601974)	<5	858	<10	<10	<5	0.28	<5	80.9	4	17	72.1	88
A72524 (9601975)	<5	854	<10	<10	<5	0.27	<5	75.0	5	15	69.9	111
A72525 (9601976)	<5	1120	<10	<10	<5	0.30	<5	78.5	3	18	78.7	110
A72526 (9601977)	<5	258	<10	<10	<5	0.83	<5	246	3	22	95.7	92
A72527 (9601978)	<5	812	<10	<10	<5	0.33	<5	98.6	3	19	86.9	113
A72528 (9601979)	<5	503	<10	<10	<5	0.16	<5	34.6	2	10	78.0	52
A72529 (9601980)	<5	749	<10	<10	<5	0.20	<5	64.4	4	13	71.1	68
A72530 (9601981)	<5	776	<10	<10	<5	0.22	<5	73.2	3	12	81.4	86
A72531 (9601982)	<5	643	<10	<10	<5	0.16	<5	65.1	2	12	75.7	66
A72532 (9601983)	<5	67	<10	<10	<5	<0.01	<5	1.6	<1	2	1.2	<5
A72533 (9601984)	<5	614	<10	<10	<5	0.16	<5	57.8	2	13	85.8	70
A72534 (9601985)	<5	716	<10	<10	<5	0.22	<5	72.8	3	11	77.9	87
A72535 (9601986)	<5	685	<10	<10	<5	0.23	<5	71.4	2	10	67.2	84
A72536 (9601987)	<5	709	<10	<10	<5	0.24	<5	73.8	2	11	68.1	89
A72537 (9601988)	<5	664	<10	<10	<5	0.24	<5	72.9	3	11	67.1	89
A72538 (9601989)	<5	662	<10	<10	<5	0.23	<5	71.8	3	11	68.0	88
A72539 (9601990)	<5	694	<10	<10	<5	0.23	<5	71.3	2	11	65.6	51

Comments: RDL - Reported Detection Limit  
 9601964-9601990 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72513 (9601964)		15.9	61.3	2.39
A72514 (9601965)		15.9	63.0	2.47
A72515 (9601966)		18.3	65.6	2.39
A72516 (9601967)		14.2	84.1	1.34
A72517 (9601968)		13.8	79.2	1.29
A72518 (9601969)		8.9	80.6	1.51
A72519 (9601970)		12.3	85.2	1.55
A72520 (9601971)		8.9	70.9	1.69
A72521 (9601972)		12.4	62.0	2.22
A72522 (9601973)		13.3	82.8	1.29
A72523 (9601974)		10.9	64.1	1.52
A72524 (9601975)		12.4	56.9	1.53
A72525 (9601976)		14.3	65.0	1.58
A72526 (9601977)		2.6	10.9	0.378
A72527 (9601978)		11.1	78.4	1.48
A72528 (9601979)		11.4	63.7	2.55
A72529 (9601980)		8.8	62.4	1.76
A72530 (9601981)		11.9	55.4	1.13
A72531 (9601982)		9.6	53.6	0.955
A72532 (9601983)		<0.1	0.7	0.110
A72533 (9601984)		10.7	57.9	0.919
A72534 (9601985)		11.0	54.9	1.13
A72535 (9601986)		9.3	48.0	1.14
A72536 (9601987)		9.5	46.9	1.19
A72537 (9601988)		9.1	58.5	1.13
A72538 (9601989)		9.3	58.2	1.19
A72539 (9601990)		9.2	57.6	1.09

Comments: RDL - Reported Detection Limit  
9601964-9601990 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72513 (9601964)			0.023
A72514 (9601965)			0.004
A72515 (9601966)			0.017
A72516 (9601967)			0.020
A72517 (9601968)			0.005
A72518 (9601969)			0.005
A72519 (9601970)			0.036
A72520 (9601971)			0.002
A72521 (9601972)			0.003
A72522 (9601973)			0.007
A72523 (9601974)			0.009
A72524 (9601975)			0.086
A72525 (9601976)			0.010
A72526 (9601977)			0.33
A72527 (9601978)			0.054
A72528 (9601979)			0.009
A72529 (9601980)			0.003
A72530 (9601981)			0.019
A72531 (9601982)			0.002
A72532 (9601983)			<0.001
A72533 (9601984)			0.004
A72534 (9601985)			0.002
A72535 (9601986)			0.011
A72536 (9601987)			0.007
A72537 (9601988)			0.001
A72538 (9601989)			0.002
A72539 (9601990)			0.003

Comments: RDL - Reported Detection Limit

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72514 (9601965)		89
A72531 (9601982)		85

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B393620

PROJECT: AGAT00368

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 20, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72513 (9601964)	93

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9601964	< 0.5	< 0.5	0.0%	9601978	< 0.5	< 0.5	0.0%	9601989	< 0.5	< 0.5	0.0%				
Al	9601964	7.66	7.34	4.3%	9601978	7.65	7.32	4.4%	9601989	7.25	7.50	3.4%				
As	9601964	5	4	22.2%	9601978	3	< 1		9601989	4	4	0.0%				
Ba	9601964	1190	1160	2.6%	9601978	1100	1050	4.7%	9601989	862	880	2.1%				
Be	9601964	2.37	2.45	3.3%	9601978	2.03	1.93	5.1%	9601989	4.01	4.40	9.3%				
Bi	9601964	< 1	< 1	0.0%	9601978	< 1	< 1	0.0%	9601989	< 1	< 1	0.0%				
Ca	9601964	2.10	2.04	2.9%	9601978	3.59	3.43	4.6%	9601989	2.77	2.82	1.8%				
Cd	9601964	< 0.5	< 0.5	0.0%	9601978	< 0.5	< 0.5	0.0%	9601989	< 0.5	< 0.5	0.0%				
Ce	9601964	85	85	0.0%	9601978	73	70	4.2%	9601989	48	49	2.1%				
Co	9601964	5.73	5.64	1.6%	9601978	17.7	17.0	4.0%	9601989	12.1	11.8	2.5%				
Cr	9601964	22.1	18.6	17.2%	9601978	56.3	60.0	6.4%	9601989	67.1	67.8	1.0%				
Cu	9601964	15.3	12.7	18.6%	9601978	39.5	37.1	6.3%	9601989	12.3	11.1	10.3%				
Fe	9601964	1.84	1.81	1.6%	9601978	4.10	3.92	4.5%	9601989	2.76	2.87	3.9%				
Ga	9601964	24	24	0.0%	9601978	30	32	6.5%	9601989	27	30	10.5%				
In	9601964	< 1	< 1	0.0%	9601978	< 1	< 1	0.0%	9601989	< 1	< 1	0.0%				
K	9601964	2.23	2.13	4.6%	9601978	2.46	2.35	4.6%	9601989	1.79	1.85	3.3%				
La	9601964	37	38	2.7%	9601978	32	31	3.2%	9601989	21	21	0.0%				
Li	9601964	8	8	0.0%	9601978	17	16	6.1%	9601989	14	14	0.0%				
Mg	9601964	0.67	0.66	1.5%	9601978	2.08	1.98	4.9%	9601989	1.39	1.44	3.5%				
Mn	9601964	376	367	2.4%	9601978	685	652	4.9%	9601989	409	423	3.4%				
Mo	9601964	5.2	4.6	12.2%	9601978	4.65	4.26	8.8%	9601989	4.18	4.37	4.4%				
Na	9601964	3.19	3.11	2.5%	9601978	2.80	2.66	5.1%	9601989	3.25	3.33	2.4%				
Ni	9601964	15.4	15.8	2.6%	9601978	41.1	38.9	5.5%	9601989	34.9	35.3	1.1%				
P	9601964	749	730	2.6%	9601978	1000	967	3.4%	9601989	736	738	0.3%				
S	9601964	0.17	0.17	0.0%	9601978	0.11	0.11	0.0%	9601989	0.03	0.03	0.0%				
Sb	9601964	< 1	< 1	0.0%	9601978	< 1	< 1	0.0%	9601989	< 1	< 1	0.0%				
Sc	9601964	4	4	0.0%	9601978	13	13	0.0%	9601989	9	9	0.0%				
Se	9601964	< 10	< 10	0.0%	9601978	< 10	< 10	0.0%	9601989	< 10	< 10	0.0%				
Sn	9601964	< 5	< 5	0.0%	9601978	< 5	< 5	0.0%	9601989	< 5	< 5	0.0%				
Sr	9601964	707	683	3.5%	9601978	812	801	1.4%	9601989	662	679	2.5%				
Ta	9601964	< 10	< 10	0.0%	9601978	< 10	< 10	0.0%	9601989	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9601964	< 10	< 10	0.0%	9601978	< 10	< 10	0.0%	9601989	< 10	< 10	0.0%				
Th	9601964	< 5	< 5	0.0%	9601978	< 5	< 5	0.0%	9601989	< 5	< 5	0.0%				
Ti	9601964	0.17	0.17	0.0%	9601978	0.328	0.313	4.7%	9601989	0.232	0.242	4.2%				
Tl	9601964	< 5	< 5	0.0%	9601978	< 5	< 5	0.0%	9601989	< 5	< 5	0.0%				
V	9601964	34.2	34.6	1.2%	9601978	98.6	96.5	2.2%	9601989	71.8	71.5	0.4%				
W	9601964	2	2	0.0%	9601978	3	3	0.0%	9601989	3	< 1					
Y	9601964	10	10	0.0%	9601978	19	19	0.0%	9601989	11	11	0.0%				
Zn	9601964	59.4	60.3	1.5%	9601978	86.9	85.8	1.3%	9601989	68.0	67.0	1.5%				
Zr	9601964	137	128	6.8%	9601978	113	111	1.8%	9601989	88	86	2.3%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9601964	15.9	16.9	6.1%	9601978	11.1	11.0	0.9%	9601989	9.3	9.1	2.2%				
Rb	9601964	61.3	59.8	2.5%	9601978	78.4	80.3	2.4%	9601989	58.2	58.8	1.0%				
U	9601964	2.39	2.51	4.9%	9601978	1.48	1.43	3.4%	9601989	1.19	1.16	2.6%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9601964	0.0228	0.0276	19.0%	9601978	0.0545	0.0572	4.8%	9601989	0.002	0.002	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.35	95%	90% - 110%	8.17	8.01	98%	90% - 110%								
As					26	26	101%	90% - 110%								
Ba	340	328	96%	90% - 110%	540	517	96%	90% - 110%								
Be	2.6	2.7	105%	90% - 110%	4.0	4.2	105%	90% - 110%								
Ca	5.72	5.47	96%	90% - 110%	0.907	0.922	102%	90% - 110%								
Ce	122	112	92%	90% - 110%	98	97	99%	90% - 110%								
Cr					60.3	63.3	105%	90% - 110%								
Cu					150	156	104%	90% - 110%								
Fe	4.34	4.3	99%	90% - 110%	3.77	3.92	104%	90% - 110%								
Ga	35	36.7	105%	90% - 110%												
K	1.37	1.37	100%	90% - 110%												
La	58	48	83%	90% - 110%	44	40	90%	90% - 110%								
Li	37	40	108%	90% - 110%	47	49	105%	90% - 110%								
Mg	0.325	0.298	92%	90% - 110%	1.10	1.09	99%	90% - 110%								
Mn					780	789	101%	90% - 110%								
Mo					14	14	101%	90% - 110%								
Na	5.267	5.018	95%	90% - 110%	1.624	1.574	97%	90% - 110%								
Ni					32	33	102%	90% - 110%								
P					750	821	109%	90% - 110%								
Sc					12	13	105%	90% - 110%								
Sr	1191	1212	102%	90% - 110%	144	153	107%	90% - 110%								
Ti	0.172	0.162	94%	90% - 110%	0.53	0.45	85%	90% - 110%								
V					77	82	106%	90% - 110%								
Y	119	118	99%	90% - 110%												
Zn	93	97	104%	90% - 110%	130	136	105%	90% - 110%								

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Pb	10	9	87%	90% - 110%	31	31	98%	90% - 110%								
Rb	55	52	94%	90% - 110%	143	152	107%	90% - 110%								
U	0.8	0.6	79%	90% - 110%	5.7	4.6	80%	90% - 110%								



**AGAT** Laboratories

Quality Assurance - Certified Reference materials  
 AGAT WORK ORDER: 18B393620  
 PROJECT: AGAT00368

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.04	101%	90% - 110%	6.56	6.11	93%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00368  
 SAMPLING SITE:

AGAT WORK ORDER: 18B393620  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00369

AGAT WORK ORDER: 18B393621

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 25, 2018

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72540 (9602009)		1.34
A72541 (9602010)		1.72
A72542 (9602011)		1.36
A72543 (9602012)		1.80
A72544 (9602013)		1.58
A72545 (9602014)		1.43
A72546 (9602015)		0.07
A72547 (9602016)		1.44
A72548 (9602017)		1.82
A72549 (9602018)		1.56
A72550 (9602019)		1.55
A72551 (9602020)		1.28
A72552 (9602021)		1.12
A72553 (9602022)		0.60
A72554 (9602023)		2.04
A72555 (9602024)		2.14
A72556 (9602025)		1.31
A72557 (9602026)		1.79
A72558 (9602027)		1.79
A72559 (9602028)		0.96

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72540 (9602009)		0.6	6.86	6	891	2.2	<1	0.99	<0.5	77	5.9	34.8	7.5	1.69	27
A72541 (9602010)		0.5	7.07	3	911	2.1	<1	1.34	<0.5	72	4.8	27.9	1.9	1.99	24
A72542 (9602011)		<0.5	4.54	2	595	2.2	<1	0.87	<0.5	71	6.6	39.8	4.2	1.30	27
A72543 (9602012)		1.0	5.77	3	724	2.4	<1	1.05	<0.5	79	5.4	25.2	1.6	1.44	28
A72544 (9602013)		<0.5	6.00	2	707	1.8	<1	1.14	<0.5	65	4.5	25.3	2.8	1.53	23
A72545 (9602014)		<0.5	3.41	3	466	1.9	<1	0.77	<0.5	67	4.7	20.3	6.6	0.77	22
A72546 (9602015)		<0.5	6.61	<1	179	1.4	<1	5.70	<0.5	19	38.5	183	113	7.23	41
A72547 (9602016)		0.6	5.80	5	586	2.4	<1	1.03	<0.5	88	6.1	31.2	13.8	1.40	27
A72548 (9602017)		<0.5	3.23	3	344	1.9	<1	0.63	<0.5	61	4.4	24.8	6.1	0.80	21
A72549 (9602018)		0.6	7.41	4	869	2.6	<1	1.31	<0.5	85	5.0	30.6	3.3	1.87	27
A72550 (9602019)		0.5	5.90	2	811	2.0	<1	1.93	<0.5	77	4.7	23.2	10.9	1.21	25
A72551 (9602020)		<0.5	7.43	3	1000	2.5	<1	1.41	<0.5	84	4.2	28.2	2.8	1.75	27
A72552 (9602021)		<0.5	0.12	<1	18	<0.5	<1	28.2	<0.5	<1	<0.5	7.3	<0.5	0.19	17
A72553 (9602022)		0.6	8.85	7	1520	2.4	<1	1.99	<0.5	84	4.3	27.6	12.7	2.04	26
A72554 (9602023)		0.9	7.00	4	1230	2.3	<1	1.39	<0.5	84	5.9	27.5	14.7	1.61	25
A72555 (9602024)		<0.5	3.98	2	868	2.1	<1	0.98	<0.5	68	5.2	22.9	14.3	0.84	26
A72556 (9602025)		1.3	4.57	6	924	2.3	<1	2.15	<0.5	95	9.4	44.1	21.4	1.44	30
A72557 (9602026)		<0.5	5.79	2	923	2.6	<1	3.67	<0.5	152	24.8	168	1.1	4.42	39
A72558 (9602027)		<0.5	6.31	2	979	2.9	<1	4.16	<0.5	165	27.7	205	0.9	4.85	43
A72559 (9602028)		<0.5	7.16	2	929	2.1	<1	2.13	<0.5	79	4.4	25.3	32.1	1.52	25

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 04, 2018					DATE REPORTED: Oct 25, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72540 (9602009)	<1	2.13	34	18	0.75	197	6.5	2.69	18.9	751	0.04	<1	4	<10	
A72541 (9602010)	<1	2.09	32	23	1.06	325	5.8	2.70	14.7	609	0.04	<1	3	<10	
A72542 (9602011)	<1	1.39	32	12	0.69	207	4.6	1.60	17.9	563	0.01	1	4	<10	
A72543 (9602012)	<1	1.84	36	15	0.74	225	4.9	2.71	15.2	651	0.02	<1	3	<10	
A72544 (9602013)	<1	1.84	30	17	0.89	282	4.4	2.20	12.4	525	0.04	<1	3	<10	
A72545 (9602014)	<1	0.96	31	9	0.44	143	5.0	1.39	11.8	589	0.08	<1	3	<10	
A72546 (9602015)	<1	0.38	9	9	3.80	1230	1.5	1.95	111	885	0.07	<1	32	<10	
A72547 (9602016)	<1	1.88	40	13	0.65	195	5.7	2.25	15.4	624	0.13	<1	3	<10	
A72548 (9602017)	<1	0.95	27	7	0.41	139	4.3	1.06	11.1	455	0.02	<1	2	<10	
A72549 (9602018)	<1	2.38	36	13	0.82	277	5.4	2.58	15.4	662	0.03	<1	3	<10	
A72550 (9602019)	<1	2.12	34	11	0.54	317	6.0	2.61	12.8	583	0.09	<1	3	<10	
A72551 (9602020)	<1	2.73	36	19	0.68	212	6.2	2.85	16.2	680	0.04	<1	3	<10	
A72552 (9602021)	<1	0.02	3	1	2.72	89	2.6	0.05	0.7	87	0.01	1	<1	<10	
A72553 (9602022)	<1	3.07	36	19	0.76	220	5.3	3.34	17.8	838	0.27	3	4	<10	
A72554 (9602023)	<1	1.86	36	14	0.59	201	5.9	2.85	16.4	635	0.32	5	3	<10	
A72555 (9602024)	<1	0.95	31	7	0.45	169	4.5	1.64	14.0	561	0.05	<1	3	<10	
A72556 (9602025)	<1	1.36	42	14	1.00	376	5.2	1.93	28.2	972	0.05	<1	7	<10	
A72557 (9602026)	<1	2.14	64	30	3.10	552	3.1	1.73	99.8	2090	0.02	<1	17	<10	
A72558 (9602027)	<1	2.46	72	33	3.39	679	3.3	1.82	110	2300	0.02	1	19	<10	
A72559 (9602028)	<1	1.47	34	9	0.77	293	5.4	3.34	16.4	636	0.04	2	3	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sn ppm 5	Sr ppm 1	Ta ppm 10	Te ppm 10	Th ppm 5	Ti % 0.01	Tl ppm 5	V ppm 0.5	W ppm 1	Y ppm 1	Zn ppm 0.5	Zr ppm 5
A72540 (9602009)		<5	428	<10	<10	<5	0.14	<5	37.0	2	10	42.2	122
A72541 (9602010)		<5	437	<10	<10	<5	0.14	<5	29.9	1	8	60.0	113
A72542 (9602011)		<5	307	<10	<10	<5	0.09	<5	37.4	1	8	34.0	111
A72543 (9602012)		<5	468	<10	<10	<5	0.11	<5	31.7	1	8	44.7	129
A72544 (9602013)		<5	244	<10	<10	<5	0.11	<5	24.7	1	7	55.7	102
A72545 (9602014)		<5	162	<10	<10	<5	0.06	<5	22.9	3	8	39.5	94
A72546 (9602015)		<5	238	<10	<10	<5	0.79	<5	237	4	21	88.2	91
A72547 (9602016)		<5	256	<10	<10	<5	0.11	<5	31.0	3	10	77.0	128
A72548 (9602017)		<5	185	<10	<10	<5	0.06	<5	23.4	1	6	33.8	91
A72549 (9602018)		<5	424	<10	<10	<5	0.15	<5	32.7	1	9	85.2	133
A72550 (9602019)		<5	368	<10	<10	<5	0.08	<5	27.6	3	12	44.2	123
A72551 (9602020)		<5	368	<10	<10	<5	0.14	<5	32.9	2	10	54.0	137
A72552 (9602021)		<5	61	<10	<10	<5	<0.01	<5	1.3	2	2	3.6	<5
A72553 (9602022)		<5	512	<10	<10	<5	0.16	<5	34.3	2	9	58.9	137
A72554 (9602023)		<5	589	<10	<10	<5	0.11	<5	31.5	2	10	72.1	136
A72555 (9602024)		<5	332	<10	<10	<5	0.07	<5	28.5	3	9	21.6	109
A72556 (9602025)		<5	426	<10	<10	<5	0.12	<5	56.4	6	19	32.0	121
A72557 (9602026)		<5	681	<10	<10	<5	0.30	<5	140	5	23	85.5	130
A72558 (9602027)		<5	706	<10	<10	<5	0.33	<5	153	7	25	95.0	137
A72559 (9602028)		<5	608	<10	<10	<5	0.13	<5	31.4	1	9	40.2	133

Comments: RDL - Reported Detection Limit

9602009-9602028 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 03, 2018      DATE RECEIVED: Oct 04, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72540 (9602009)		13.9	85.7	1.93
A72541 (9602010)		15.3	91.7	2.26
A72542 (9602011)		22.7	85.7	2.40
A72543 (9602012)		17.2	92.1	2.61
A72544 (9602013)		16.5	84.5	2.76
A72545 (9602014)		15.8	68.0	3.84
A72546 (9602015)		3.0	12.2	0.423
A72547 (9602016)		25.3	80.9	3.71
A72548 (9602017)		21.9	89.1	3.04
A72549 (9602018)		25.5	88.3	3.52
A72550 (9602019)		20.2	76.9	2.62
A72551 (9602020)		13.2	92.8	3.31
A72552 (9602021)		0.6	0.6	0.182
A72553 (9602022)		20.5	77.2	2.64
A72554 (9602023)		56.0	67.8	3.84
A72555 (9602024)		15.7	71.1	2.64
A72556 (9602025)		11.7	76.0	2.45
A72557 (9602026)		12.8	87.6	2.01
A72558 (9602027)		12.8	89.5	1.97
A72559 (9602028)		13.4	55.3	2.56

Comments: RDL - Reported Detection Limit  
 9602009-9602028 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 04, 2018	DATE REPORTED: Oct 25, 2018	SAMPLE TYPE: Drill Core
Analyte: Au	Unit: ppm	RDL: 0.001	
Sample ID (AGAT ID)			
A72540 (9602009)		0.045	
A72541 (9602010)		0.006	
A72542 (9602011)		0.004	
A72543 (9602012)		0.003	
A72544 (9602013)		0.008	
A72545 (9602014)		0.026	
A72546 (9602015)		0.327	
A72547 (9602016)		0.033	
A72548 (9602017)		0.007	
A72549 (9602018)		0.008	
A72550 (9602019)		0.024	
A72551 (9602020)		0.006	
A72552 (9602021)		0.001	
A72553 (9602022)		0.016	
A72554 (9602023)		0.027	
A72555 (9602024)		0.009	
A72556 (9602025)		0.004	
A72557 (9602026)		0.011	
A72558 (9602027)		0.009	
A72559 (9602028)		0.017	

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 03, 2018	DATE RECEIVED: Oct 04, 2018	DATE REPORTED: Oct 25, 2018	SAMPLE TYPE: Drill Core
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Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72540 (9602009)		88
A72559 (9602028)		88

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B393621

PROJECT: AGAT00369

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 03, 2018

DATE RECEIVED: Oct 04, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72540 (9602009)	94

Comments: RDL - Reported Detection Limit

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9602009	0.6	0.6	0.0%	9602023	0.9	1.0	10.5%								
Al	9602009	6.86	7.55	9.6%	9602023	7.00	6.17	12.6%								
As	9602009	6	5	18.2%	9602023	4	4	0.0%								
Ba	9602009	891	940	5.4%	9602023	1230	921	28.7%								
Be	9602009	2.24	2.47	9.8%	9602023	2.26	2.20	2.7%								
Bi	9602009	< 1	< 1	0.0%	9602023	< 1	< 1	0.0%								
Ca	9602009	0.99	1.05	5.9%	9602023	1.39	1.21	13.8%								
Cd	9602009	< 0.5	< 0.5	0.0%	9602023	< 0.5	< 0.5	0.0%								
Ce	9602009	77	87	12.2%	9602023	84	79	6.1%								
Co	9602009	5.93	6.11	3.0%	9602023	5.9	6.4	8.1%								
Cr	9602009	34.8	39.1	11.6%	9602023	27.5	25.7	6.8%								
Cu	9602009	7.5	6.1		9602023	14.7	14.2	3.5%								
Fe	9602009	1.69	1.86	9.6%	9602023	1.61	1.40	14.0%								
Ga	9602009	27	29	7.1%	9602023	25	26	3.9%								
In	9602009	< 1	< 1	0.0%	9602023	< 1	< 1	0.0%								
K	9602009	2.13	2.37	10.7%	9602023	1.86	1.60	15.0%								
La	9602009	34	38	11.1%	9602023	36	35	2.8%								
Li	9602009	18	20	10.5%	9602023	14	12	15.4%								
Mg	9602009	0.75	0.81	7.7%	9602023	0.595	0.535	10.6%								
Mn	9602009	197	210	6.4%	9602023	201	172	15.5%								
Mo	9602009	6.5	6.5	0.0%	9602023	5.9	5.2	12.6%								
Na	9602009	2.69	3.00	10.9%	9602023	2.85	2.46	14.7%								
Ni	9602009	18.9	19.9	5.2%	9602023	16.4	16.1	1.8%								
P	9602009	751	789	4.9%	9602023	635	624	1.7%								
S	9602009	0.04	0.04	0.0%	9602023	0.32	0.28	13.3%								
Sb	9602009	< 1	< 1	0.0%	9602023	5	4									
Sc	9602009	4	4	0.0%	9602023	3	3	0.0%								
Se	9602009	< 10	< 10	0.0%	9602023	< 10	< 10	0.0%								
Sn	9602009	< 5	< 5	0.0%	9602023	< 5	< 5	0.0%								
Sr	9602009	428	475	10.4%	9602023	589	509	14.6%								
Ta	9602009	< 10	< 10	0.0%	9602023	< 10	< 10	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9602009	< 10	< 10	0.0%	9602023	< 10	< 10	0.0%													
Th	9602009	< 5	< 5	0.0%	9602023	< 5	< 5	0.0%													
Ti	9602009	0.14	0.15	6.9%	9602023	0.108	0.090	18.2%													
Tl	9602009	< 5	< 5	0.0%	9602023	< 5	< 5	0.0%													
V	9602009	37.0	40.3	8.5%	9602023	31.5	31.0	1.6%													
W	9602009	2	2	0.0%	9602023	2	2	0.0%													
Y	9602009	10	10	0.0%	9602023	10	9	10.5%													
Zn	9602009	42.2	46.3	9.3%	9602023	72.1	62.8	13.8%													
Zr	9602009	122	137	11.6%	9602023	136	132	3.0%													

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2																			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD																
Pb	9602009	13.9	14.6	4.9%	9602023	56.0	56.3	0.5%																
Rb	9602009	85.7	89.9	4.8%	9602023	67.8	67.0	1.2%																
U	9602009	1.93	1.87	3.2%	9602023	3.84	3.86	0.5%																

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2																			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD																
Au	9602009	0.045	0.016		9602023	0.027	0.026	3.8%																



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)														
	Expect	Actual	Recovery	Limits											
Al	10.95	9.92	90%	90% - 110%											
Ba	340	316	92%	90% - 110%											
Be	2.6	2.6	100%	90% - 110%											
Ca	5.72	5.2	90%	90% - 110%											
Ce	122	118	96%	90% - 110%											
Fe	4.34	3.94	90%	90% - 110%											
Ga	35	34.5	98%	90% - 110%											
K	1.37	1.25	91%	90% - 110%											
La	58	56	96%	90% - 110%											
Li	37	34	91%	90% - 110%											
Mg	0.325	0.294	90%	90% - 110%											
Na	5.267	4.76	90%	90% - 110%											
Sr	1191	1117	93%	90% - 110%											
Y	119	113	94%	90% - 110%											
Zn	93	88.2	95%	90% - 110%											

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)														
	Expect	Actual	Recovery	Limits											
Pb	10	10	97%	90% - 110%											
Rb	55	60	109%	90% - 110%											
U	0.8	0.8	101%	90% - 110%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW07)														
	Expect	Actual	Recovery	Limits											
Au	6.56	6.16	94%	90% - 110%											



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00369  
 SAMPLING SITE:

AGAT WORK ORDER: 18B393621  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00378

AGAT WORK ORDER: 18B396155

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 12, 2018

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Nov 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72623 (9618078)		3.11
A72624 (9618079)		3.23
A72625 (9618080)		2.91
A72626 (9618081)		0.07
A72627 (9618082)		3.37
A72628 (9618083)		3.05
A72629 (9618084)		3.23
A72630 (9618085)		2.37
A72631 (9618086)		2.91
A72632 (9618087)		1.43
A72633 (9618088)		2.09
A72634 (9618089)		2.11
A72635 (9618090)		0.93
A72636 (9618091)		3.11
A72637 (9618092)		3.08
A72638 (9618093)		3.08
A72639 (9618094)		3.67
A72640 (9618095)		2.88
A72641 (9618096)		3.21
A72642 (9618097)		0.92

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018							DATE REPORTED: Nov 12, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72623 (9618078)	<0.5	7.58	5	891	1.7	<1	2.39	<0.5	73	8.1	46.8	6.7	2.33	15.0	
A72624 (9618079)	<0.5	7.71	2	881	1.9	<1	2.74	<0.5	74	7.6	43.9	10.6	2.28	16.0	
A72625 (9618080)	<0.5	7.72	4	847	1.9	2	3.27	<0.5	77	6.7	47.4	8.5	2.14	16.0	
A72626 (9618081)	<0.5	7.29	<1	190	1.7	10	6.60	<0.5	21	40.6	192	110	8.01	28.0	
A72627 (9618082)	<0.5	7.42	5	753	2.1	<1	2.82	<0.5	72	8.2	39.0	22.5	2.11	16.0	
A72628 (9618083)	<0.5	7.59	6	762	1.8	1	2.47	<0.5	75	9.4	43.1	8.9	2.22	16.0	
A72629 (9618084)	<0.5	7.77	3	632	1.8	<1	2.31	<0.5	76	9.8	57.8	9.3	2.28	17.0	
A72630 (9618085)	0.5	7.58	8	596	2.2	<1	2.44	<0.5	72	9.0	42.8	17.1	2.26	17.0	
A72631 (9618086)	<0.5	7.57	3	974	2.3	<1	3.86	<0.5	71	8.4	55.8	12.6	2.49	18.0	
A72632 (9618087)	<0.5	0.09	<1	18	<0.5	<1	32.8	<0.5	<1	0.6	1.3	<0.5	0.14	<5	
A72633 (9618088)	<0.5	7.76	5	740	1.9	2	3.02	<0.5	73	8.0	50.3	11.3	2.24	16.0	
A72634 (9618089)	<0.5	7.50	6	930	1.9	<1	3.95	<0.5	75	8.6	53.3	5.5	2.53	18.0	
A72635 (9618090)	<0.5	7.55	5	1530	2.1	<1	3.41	<0.5	76	9.7	45.5	11.6	2.25	17.0	
A72636 (9618091)	<0.5	7.48	3	859	3.0	1	3.15	<0.5	73	8.2	48.2	3.0	2.16	18.0	
A72637 (9618092)	<0.5	7.93	1	677	2.6	1	2.64	<0.5	75	8.1	55.1	2.6	2.24	17.0	
A72638 (9618093)	<0.5	7.85	4	668	2.5	3	2.63	<0.5	76	8.3	46.5	3.4	2.22	17.0	
A72639 (9618094)	<0.5	7.70	3	583	1.9	1	2.79	<0.5	73	8.5	47.6	6.1	2.22	17.0	
A72640 (9618095)	<0.5	7.82	6	986	2.3	<1	2.91	<0.5	82	8.3	51.4	2.3	2.26	18.0	
A72641 (9618096)	<0.5	7.30	4	759	2.1	<1	4.57	<0.5	120	26.7	234	25.9	4.44	23.0	
A72642 (9618097)	<0.5	7.76	3	1340	2.0	<1	2.99	<0.5	76	8.6	45.3	4.1	2.13	17.0	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Nov 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72623 (9618078)	<1	2.30	35	20	1.13	393	4.40	2.75	35.1	674	<20	<50	0.05	1	
A72624 (9618079)	<1	2.26	36	20	1.15	393	4.50	2.87	32.9	685	<20	<50	0.05	2	
A72625 (9618080)	<1	2.25	37	28	0.97	460	2.40	2.99	34.9	693	<20	<50	0.06	<1	
A72626 (9618081)	<1	0.44	10	11	4.28	1360	0.900	2.25	112	897	<20	<50	0.09	1	
A72627 (9618082)	<1	2.14	34	12	1.01	518	3.20	2.86	32.8	680	<20	<50	0.28	1	
A72628 (9618083)	<1	2.09	36	18	1.05	390	2.90	2.85	34.3	687	<20	<50	0.19	3	
A72629 (9618084)	<1	2.02	36	18	1.11	402	3.50	2.99	36.0	722	<20	<50	0.15	<1	
A72630 (9618085)	<1	2.03	35	20	1.03	435	4.00	2.98	34.0	725	61	<50	0.33	<1	
A72631 (9618086)	<1	2.33	34	27	1.60	839	3.40	2.71	37.3	676	<20	<50	0.22	1	
A72632 (9618087)	<1	0.03	3	1	2.31	69	0.9	0.04	0.7	72	<20	<50	<0.01	<1	
A72633 (9618088)	<1	2.14	35	20	1.16	479	2.20	2.82	35.4	700	<20	<50	0.14	<1	
A72634 (9618089)	<1	2.43	37	25	1.57	580	2.40	2.56	37.3	682	<20	<50	0.06	<1	
A72635 (9618090)	<1	2.38	36	26	1.15	448	2.70	2.68	32.7	686	<20	<50	0.22	2	
A72636 (9618091)	<1	2.44	34	25	1.20	475	2.90	2.81	34.0	651	<20	<50	0.04	<1	
A72637 (9618092)	<1	2.34	36	25	1.15	390	2.70	3.01	35.4	712	<20	<50	0.02	<1	
A72638 (9618093)	<1	2.31	36	25	1.14	390	2.30	2.98	35.3	717	<20	<50	0.02	2	
A72639 (9618094)	<1	1.70	35	26	1.18	397	3.50	3.02	35.3	702	<20	<50	0.03	<1	
A72640 (9618095)	<1	1.59	40	26	1.19	405	2.70	3.30	37.3	746	<20	<50	<0.01	2	
A72641 (9618096)	<1	1.23	60	36	3.95	725	0.900	3.18	149	1200	<20	<50	0.07	2	
A72642 (9618097)	<1	1.41	36	26	1.24	427	2.40	3.42	34.9	680	<20	<50	0.01	1	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Nov 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72623 (9618078)	5	<10	<5	392	<10	<10	<5	0.20	<5	<50	44.9	1	8	71.7	
A72624 (9618079)	6	<10	<5	424	<10	<10	<5	0.20	<5	<50	46.1	4	9	58.0	
A72625 (9618080)	6	<10	<5	351	<10	<10	<5	0.16	<5	<50	46.9	3	10	53.3	
A72626 (9618081)	35	<10	<5	249	<10	<10	<5	0.85	<5	<50	250	3	22	90.5	
A72627 (9618082)	5	<10	<5	367	<10	<10	<5	0.11	<5	<50	45.1	2	8	53.4	
A72628 (9618083)	5	<10	<5	398	<10	<10	<5	0.16	<5	<50	45.8	2	8	65.4	
A72629 (9618084)	6	<10	<5	388	<10	<10	<5	0.22	<5	<50	48.8	1	9	79.1	
A72630 (9618085)	6	<10	<5	380	<10	<10	<5	0.20	<5	<50	46.5	2	10	112	
A72631 (9618086)	6	<10	<5	460	<10	<10	<5	0.21	<5	<50	53.8	1	11	82.7	
A72632 (9618087)	<1	<10	<5	71	<10	<10	<5	<0.01	<5	<50	0.9	<1	2	0.8	
A72633 (9618088)	6	<10	<5	421	<10	<10	<5	0.22	<5	<50	47.5	<1	9	80.5	
A72634 (9618089)	5	<10	<5	452	<10	<10	<5	0.21	<5	<50	47.4	4	10	92.5	
A72635 (9618090)	6	<10	<5	404	<10	<10	<5	0.21	<5	<50	48.4	2	9	66.5	
A72636 (9618091)	6	<10	<5	376	<10	<10	<5	0.20	<5	<50	46.1	1	14	76.3	
A72637 (9618092)	6	<10	<5	405	<10	<10	<5	0.22	<5	<50	46.6	2	11	80.1	
A72638 (9618093)	6	<10	<5	402	<10	<10	<5	0.22	<5	<50	47.0	1	11	77.6	
A72639 (9618094)	6	<10	<5	409	<10	<10	<5	0.22	<5	<50	47.5	1	9	71.2	
A72640 (9618095)	6	<10	<5	469	<10	<10	<5	0.22	<5	<50	49.5	2	10	69.2	
A72641 (9618096)	17	<10	<5	1100	<10	<10	<5	0.26	<5	<50	127	2	20	79.1	
A72642 (9618097)	6	<10	<5	550	<10	<10	<5	0.20	<5	<50	46.7	1	9	67.8	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Nov 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Zr	ppm	5
A72623 (9618078)			92
A72624 (9618079)			95
A72625 (9618080)			104
A72626 (9618081)			91
A72627 (9618082)			102
A72628 (9618083)			101
A72629 (9618084)			103
A72630 (9618085)			98
A72631 (9618086)			93
A72632 (9618087)			<5
A72633 (9618088)			108
A72634 (9618089)			86
A72635 (9618090)			95
A72636 (9618091)			100
A72637 (9618092)			104
A72638 (9618093)			100
A72639 (9618094)			95
A72640 (9618095)			100
A72641 (9618096)			132
A72642 (9618097)			99

Comments: RDL - Reported Detection Limit

9618078-9618097 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Nov 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72623 (9618078)			0.025
A72624 (9618079)			0.015
A72625 (9618080)			0.034
A72626 (9618081)			0.346
A72627 (9618082)			0.016
A72628 (9618083)			0.044
A72629 (9618084)			0.024
A72630 (9618085)			0.047
A72631 (9618086)			0.016
A72632 (9618087)			<0.001
A72633 (9618088)			0.018
A72634 (9618089)			0.014
A72635 (9618090)			0.047
A72636 (9618091)			0.005
A72637 (9618092)			0.012
A72638 (9618093)			0.004
A72639 (9618094)			0.003
A72640 (9618095)			0.002
A72641 (9618096)			0.009
A72642 (9618097)			0.006

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018	DATE REPORTED: Nov 12, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72623 (9618078)		83
A72633 (9618088)		80
A72642 (9618097)		79

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396155

PROJECT: AGAT00378

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Nov 12, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72623 (9618078)	96

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9618078	< 0.5	< 0.5	0.0%	9618092	< 0.5	< 0.5	0.0%								
Al	9618078	7.58	7.63	0.7%	9618092	7.93	7.90	0.4%								
As	9618078	5	3		9618092	1	2									
Ba	9618078	891	888	0.3%	9618092	677	678	0.1%								
Be	9618078	1.72	1.81	5.1%	9618092	2.6	2.5	3.9%								
Bi	9618078	< 1	2		9618092	1	3									
Ca	9618078	2.39	2.43	1.7%	9618092	2.64	2.61	1.1%								
Cd	9618078	< 0.5	< 0.5	0.0%	9618092	< 0.5	< 0.5	0.0%								
Ce	9618078	73	74	1.4%	9618092	75	75	0.0%								
Co	9618078	8.1	8.4	3.6%	9618092	8.15	8.30	1.8%								
Cr	9618078	46.8	54.7	15.6%	9618092	55.1	43.7	23.1%								
Cu	9618078	6.7	4.9		9618092	2.56	2.38	7.3%								
Fe	9618078	2.33	2.34	0.4%	9618092	2.24	2.24	0.0%								
Ga	9618078	15.0	17.0	12.5%	9618092	17.0	17.0	0.0%								
In	9618078	< 1	< 1	0.0%	9618092	< 1	< 1	0.0%								
K	9618078	2.30	2.31	0.4%	9618092	2.34	2.33	0.4%								
La	9618078	35	36	2.8%	9618092	36	36	0.0%								
Li	9618078	20	20	0.0%	9618092	25	25	0.0%								
Mg	9618078	1.13	1.13	0.0%	9618092	1.15	1.16	0.9%								
Mn	9618078	393	390	0.8%	9618092	390	393	0.8%								
Mo	9618078	4.40	5.41	20.6%	9618092	2.70	2.1	25.0%								
Na	9618078	2.75	2.76	0.4%	9618092	3.01	3.03	0.7%								
Ni	9618078	35.1	35.0	0.3%	9618092	35.4	36.3	2.5%								
P	9618078	674	696	3.2%	9618092	712	719	1.0%								
Pb	9618078	< 20	< 20	0.0%	9618092	< 20	< 20	0.0%								
Rb	9618078	< 50	< 50	0.0%	9618092	< 50	< 50	0.0%								
S	9618078	0.046	0.035	27.2%	9618092	0.02	0.02	0.0%								
Sb	9618078	1	< 1		9618092	< 1	< 1	0.0%								
Sc	9618078	5	5	0.0%	9618092	6	6	0.0%								
Se	9618078	< 10	< 10	0.0%	9618092	< 10	< 10	0.0%								
Sn	9618078	< 5	< 5	0.0%	9618092	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9618078	392	392	0.0%	9618092	405	407	0.5%											
Ta	9618078	< 10	< 10	0.0%	9618092	< 10	< 10	0.0%											
Te	9618078	< 10	< 10	0.0%	9618092	< 10	< 10	0.0%											
Th	9618078	< 5	< 5	0.0%	9618092	< 5	< 5	0.0%											
Ti	9618078	0.204	0.206	1.0%	9618092	0.22	0.22	0.0%											
Tl	9618078	< 5	< 5	0.0%	9618092	< 5	< 5	0.0%											
U	9618078	< 50	< 50	0.0%	9618092	< 50	< 50	0.0%											
V	9618078	44.9	45.3	0.9%	9618092	46.6	47.6	2.1%											
W	9618078	1	< 1		9618092	2	3												
Y	9618078	8	8	0.0%	9618092	11	11	0.0%											
Zn	9618078	71.7	72.4	1.0%	9618092	80.1	80.5	0.5%											
Zr	9618078	92	95	3.2%	9618092	104	104	0.0%											
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																			
	REPLICATE #1				REPLICATE #2														
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD											
Au	9618092	0.013	0.007		9618092	0.012	0.007	52.6%											



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.91	100%	90% - 110%											
Ba	340	333	98%	90% - 110%											
Be	2.6	2.6	101%	90% - 110%											
Ca	5.72	5.75	101%	90% - 110%											
Ce	122	117	96%	90% - 110%											
Cu	7	7	103%	90% - 110%											
Fe	4.34	4.37	101%	90% - 110%											
Ga	35	37	106%	90% - 110%											
K	1.37	1.48	108%	90% - 110%											
La	58	56	96%	90% - 110%											
Li	37	40	109%	90% - 110%											
Mg	0.325	0.311	96%	90% - 110%											
Na	5.267	5.265	100%	90% - 110%											
Pb	10	9	88%	90% - 110%											
Sr	1191	1195	100%	90% - 110%											
Ti	0.172	0.165	96%	90% - 110%											
Y	119	118	100%	90% - 110%											
Zn	93	95	102%	90% - 110%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.WW03)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	6.56	6.83	104%	90% - 110%	2.01	1.96	98%	90% - 110%							





## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00378  
 SAMPLING SITE:

AGAT WORK ORDER: 18B396155  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00379

AGAT WORK ORDER: 18B396156

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 25, 2018

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72643 (9618098)		1.37
A72644 (9618099)		1.97
A72645 (9618100)		1.32
A72646 (9618101)		0.06
A72647 (9618102)		1.49
A72648 (9618103)		2.96
A72649 (9618104)		1.32
A72650 (9618105)		3.46
A72651 (9618106)		2.83
A72652 (9618107)		1.29
A72653 (9618108)		1.60
A72654 (9618109)		1.39
A72655 (9618110)		0.76
A72656 (9618111)		1.45
A72657 (9618112)		3.03
A72658 (9618113)		3.03
A72659 (9618114)		1.68
A72660 (9618115)		2.67
A72661 (9618116)		1.62
A72662 (9618117)		0.78
A72663 (9618118)		0.97
A72664 (9618119)		1.05
A72665 (9618120)		1.85
A72666 (9618121)		0.07
A72667 (9618122)		1.39
A72668 (9618123)		1.19
A72669 (9618124)		1.18
A72670 (9618125)		1.64
A72671 (9618126)		1.71
A72672 (9618127)		1.00
A72673 (9618128)		1.48

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (200-) Sample Login Weight

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID)	RDL: 0.01
A72674 (9618129)	1.46

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018							DATE REPORTED: Oct 25, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72643 (9618098)	1.1	7.60	14	633	1.8	<1	2.68	<0.5	68	13.2	54.8	104	3.61	28	
A72644 (9618099)	1.2	7.89	6	963	2.1	5	3.31	<0.5	39	10.8	47.0	108	2.96	27	
A72645 (9618100)	0.6	7.18	10	634	1.9	<1	2.91	<0.5	90	12.2	67.3	49.8	2.42	31	
A72646 (9618101)	<0.5	7.15	9	102	0.6	<1	7.58	<0.5	7	38.8	188	168	7.89	31	
A72647 (9618102)	0.6	8.08	7	686	2.1	<1	2.77	<0.5	86	9.5	66.1	32.9	2.63	30	
A72648 (9618103)	<0.5	6.33	10	448	1.8	<1	2.27	<0.5	82	10.9	70.0	34.1	2.26	30	
A72649 (9618104)	<0.5	7.11	7	600	1.7	<1	2.85	<0.5	86	9.7	63.6	27.0	2.49	31	
A72650 (9618105)	0.8	7.71	6	653	1.8	<1	2.56	<0.5	91	9.6	63.0	31.3	2.66	31	
A72651 (9618106)	0.7	7.20	4	609	1.9	<1	2.32	<0.5	87	10.0	62.5	36.6	2.46	30	
A72652 (9618107)	<0.5	0.14	2	21	<0.5	<1	37.9	<0.5	<1	0.9	9.3	1.0	0.19	16	
A72653 (9618108)	<0.5	8.51	3	781	6.5	<1	2.91	<0.5	96	9.5	69.0	18.0	3.01	31	
A72654 (9618109)	<0.5	8.23	7	735	2.6	<1	2.71	<0.5	89	9.4	55.1	19.3	2.77	30	
A72655 (9618110)	0.6	7.93	6	764	9.9	<1	3.10	<0.5	91	9.2	46.1	20.4	2.73	29	
A72656 (9618111)	0.6	8.21	6	859	2.1	<1	3.04	<0.5	99	9.4	69.9	14.2	2.84	32	
A72657 (9618112)	0.5	8.29	7	757	2.2	<1	3.06	<0.5	93	8.7	59.6	10.1	2.81	32	
A72658 (9618113)	0.6	7.43	7	717	2.4	<1	2.72	<0.5	91	9.3	65.3	9.8	2.51	31	
A72659 (9618114)	<0.5	6.10	6	501	1.9	<1	2.40	<0.5	81	9.7	57.9	6.4	2.21	30	
A72660 (9618115)	<0.5	7.62	4	642	1.9	<1	2.79	<0.5	88	10.3	72.0	5.0	2.59	30	
A72661 (9618116)	0.6	9.98	6	822	2.2	<1	4.48	<0.5	116	12.7	84.8	17.2	3.56	36	
A72662 (9618117)	<0.5	9.00	8	814	1.9	<1	2.86	<0.5	82	8.3	57.5	8.9	2.68	31	
A72663 (9618118)	<0.5	7.11	8	853	1.5	<1	5.23	<0.5	69	6.8	52.4	63.3	3.40	33	
A72664 (9618119)	0.5	8.87	11	695	1.9	<1	3.41	<0.5	101	9.1	70.3	15.3	2.94	32	
A72665 (9618120)	<0.5	8.70	11	635	2.4	<1	3.39	<0.5	93	9.8	64.4	28.1	2.93	30	
A72666 (9618121)	5.1	5.76	21	370	1.2	<1	4.19	0.7	25	9.6	22.9	80.5	3.30	23	
A72667 (9618122)	<0.5	8.04	16	515	1.9	<1	3.21	<0.5	91	9.7	66.1	23.3	2.72	31	
A72668 (9618123)	0.6	8.90	10	609	1.9	<1	3.10	<0.5	96	9.4	67.2	30.0	2.83	32	
A72669 (9618124)	0.7	8.60	15	662	2.0	<1	2.97	<0.5	96	10.1	75.0	29.4	3.11	31	
A72670 (9618125)	0.7	7.85	22	657	2.0	<1	3.42	<0.5	92	9.8	63.2	30.2	2.79	32	
A72671 (9618126)	0.6	7.42	15	628	5.2	<1	2.70	<0.5	83	9.3	58.9	23.7	2.43	29	
A72672 (9618127)	<0.5	0.13	4	23	<0.5	<1	38.4	<0.5	<1	0.8	7.0	<0.5	0.17	15	
A72673 (9618128)	0.6	8.48	39	997	11.1	<1	3.30	<0.5	97	12.7	72.1	52.0	2.78	32	
A72674 (9618129)	1.3	9.45	164	1200	2.8	<1	2.32	1.5	92	24.2	54.9	48.8	3.17	33	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

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PROJECT: AGAT00379

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### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Oct 25, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72643 (9618098)	<1	2.13	30	15	1.00	358	8.7	2.81	47.7	677	0.98	2	7	<10	
A72644 (9618099)	<1	3.46	17	11	0.94	399	10.3	2.35	46.3	443	0.66	<1	6	<10	
A72645 (9618100)	<1	1.87	40	17	1.18	377	12.3	2.70	50.0	887	0.22	<1	7	<10	
A72646 (9618101)	<1	0.24	4	13	4.36	1330	2.1	1.58	106	391	0.18	<1	41	<10	
A72647 (9618102)	<1	1.89	37	26	1.31	369	7.7	3.28	47.7	855	0.14	<1	6	<10	
A72648 (9618103)	<1	1.20	36	15	1.11	335	5.1	2.54	47.7	783	0.11	<1	6	<10	
A72649 (9618104)	<1	1.18	38	16	1.27	405	6.2	3.05	43.2	834	0.09	3	6	<10	
A72650 (9618105)	<1	1.32	40	18	1.38	396	6.1	3.50	48.2	897	0.18	<1	6	<10	
A72651 (9618106)	<1	1.35	38	15	1.31	336	3.7	3.19	44.5	862	0.18	3	6	<10	
A72652 (9618107)	<1	0.03	3	1	2.17	81	2.8	0.07	1.4	93	<0.01	<1	<1	<10	
A72653 (9618108)	<1	1.78	41	20	1.53	412	4.4	3.84	48.8	909	0.11	<1	7	<10	
A72654 (9618109)	<1	1.71	39	28	1.46	399	4.1	3.93	46.1	812	0.17	3	7	<10	
A72655 (9618110)	<1	1.57	39	20	1.37	408	3.8	3.83	47.5	1030	0.24	3	7	<10	
A72656 (9618111)	<1	1.73	43	18	1.59	410	3.7	3.84	53.1	941	0.26	1	8	<10	
A72657 (9618112)	<1	1.66	39	21	1.53	401	3.9	3.97	48.4	841	0.37	1	7	<10	
A72658 (9618113)	<1	1.48	39	19	1.37	376	4.5	3.46	47.5	841	0.35	<1	7	<10	
A72659 (9618114)	<1	1.15	34	15	1.22	307	3.9	2.75	43.9	828	0.39	<1	6	<10	
A72660 (9618115)	<1	1.52	37	14	1.40	356	3.2	3.44	47.1	897	0.48	<1	7	<10	
A72661 (9618116)	<1	2.00	50	16	1.91	505	4.8	4.38	62.0	1070	0.50	<1	9	<10	
A72662 (9618117)	<1	1.96	35	16	1.32	368	4.9	3.98	41.4	776	0.15	4	6	<10	
A72663 (9618118)	<1	1.78	30	8	1.90	774	6.5	2.85	41.7	699	0.88	2	5	<10	
A72664 (9618119)	<1	1.88	43	16	1.50	450	4.5	3.79	49.6	972	0.22	<1	7	<10	
A72665 (9618120)	<1	1.86	40	20	1.51	421	4.8	3.72	45.0	838	0.42	<1	7	<10	
A72666 (9618121)	<1	2.69	10	44	1.14	828	8.8	1.04	12.3	683	0.83	3	13	<10	
A72667 (9618122)	2	1.65	38	14	1.41	376	5.9	3.28	45.0	830	0.39	<1	7	<10	
A72668 (9618123)	<1	1.83	41	17	1.51	359	4.7	3.69	46.1	953	0.59	3	7	<10	
A72669 (9618124)	<1	1.80	41	17	1.54	374	6.9	3.39	49.1	923	0.52	<1	7	<10	
A72670 (9618125)	<1	1.74	40	16	1.51	447	4.8	2.99	50.5	937	0.57	<1	7	<10	
A72671 (9618126)	<1	2.00	35	23	1.22	362	4.8	3.00	44.5	706	0.37	<1	9	<10	
A72672 (9618127)	<1	0.03	3	1	2.16	62	2.7	0.06	1.1	92	<0.01	2	<1	<10	
A72673 (9618128)	<1	3.42	42	33	1.37	402	9.9	3.28	63.1	618	0.58	2	15	<10	
A72674 (9618129)	<1	4.24	38	18	1.48	381	28.6	2.57	88.7	725	1.13	<1	8	<10	

Certified By:



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# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Certified By:





## Certificate of Analysis

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PROJECT: AGAT00379

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### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018						DATE REPORTED: Oct 25, 2018				SAMPLE TYPE: Drill Core	
Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72643 (9618098)	<5	584	<10	<10	<5	0.19	<5	49.1	3	10	73.7	108
A72644 (9618099)	<5	469	<10	<10	<5	0.16	<5	40.1	4	10	66.5	87
A72645 (9618100)	<5	641	<10	<10	<5	0.18	<5	55.9	3	10	72.1	119
A72646 (9618101)	<5	170	<10	<10	<5	0.51	<5	273	5	19	78.0	46
A72647 (9618102)	<5	694	<10	<10	<5	0.20	<5	50.1	3	9	107	120
A72648 (9618103)	<5	596	<10	<10	<5	0.16	<5	48.2	2	9	69.4	111
A72649 (9618104)	<5	749	<10	<10	<5	0.18	<5	49.7	4	8	146	111
A72650 (9618105)	<5	822	<10	<10	<5	0.19	<5	51.9	3	9	68.6	123
A72651 (9618106)	<5	741	<10	<10	<5	0.19	<5	52.1	3	8	67.0	117
A72652 (9618107)	<5	82	<10	<10	<5	<0.01	6	2.5	1	3	4.9	<5
A72653 (9618108)	<5	884	<10	<10	<5	0.23	<5	55.9	3	9	105	121
A72654 (9618109)	<5	895	<10	<10	<5	0.21	<5	52.7	3	11	111	117
A72655 (9618110)	<5	874	<10	<10	<5	0.20	<5	54.1	2	10	103	121
A72656 (9618111)	<5	994	<10	<10	<5	0.22	<5	59.1	2	12	76.3	130
A72657 (9618112)	<5	875	<10	<10	<5	0.20	<5	55.7	<1	10	69.8	127
A72658 (9618113)	<5	783	<10	<10	<5	0.18	<5	56.6	3	11	66.1	121
A72659 (9618114)	<5	631	<10	<10	<5	0.15	<5	50.1	2	9	58.8	109
A72660 (9618115)	<5	776	<10	<10	<5	0.18	<5	55.3	2	9	59.4	121
A72661 (9618116)	<5	1080	<10	<10	<5	0.26	<5	68.9	4	13	84.2	156
A72662 (9618117)	<5	792	<10	<10	<5	0.21	<5	48.2	3	10	75.5	120
A72663 (9618118)	<5	752	<10	<10	<5	0.16	<5	46.9	4	10	87.2	87
A72664 (9618119)	<5	846	<10	<10	<5	0.23	<5	56.2	3	11	87.7	134
A72665 (9618120)	<5	844	<10	<10	<5	0.21	<5	54.2	2	10	64.3	120
A72666 (9618121)	<5	304	<10	<10	<5	0.29	<5	111	4	11	91	70
A72667 (9618122)	<5	767	<10	<10	<5	0.19	<5	52.1	4	9	41.1	117
A72668 (9618123)	<5	874	<10	<10	<5	0.21	<5	54.5	2	9	43.9	124
A72669 (9618124)	<5	858	<10	<10	<5	0.21	<5	55.7	2	9	61.0	126
A72670 (9618125)	<5	795	<10	<10	<5	0.20	<5	55.4	1	11	52.4	121
A72671 (9618126)	<5	629	<10	<10	<5	0.16	<5	57.9	3	14	48.5	121
A72672 (9618127)	<5	85	<10	<10	<5	<0.01	<5	1.6	1	2	3.6	<5
A72673 (9618128)	<5	612	<10	<10	<5	0.17	<5	83.6	4	24	65.7	143
A72674 (9618129)	<5	511	<10	<10	<5	0.22	<5	62.1	6	18	111	144

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9618098-9618129 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72643 (9618098)		89.0	72.5	2.00
A72644 (9618099)		66.5	103	1.59
A72645 (9618100)		42.6	72.5	2.35
A72646 (9618101)		6.1	7.4	0.152
A72647 (9618102)		35.8	65.4	2.14
A72648 (9618103)		41.6	55.8	2.39
A72649 (9618104)		82.0	46.5	2.13
A72650 (9618105)		31.1	46.0	2.29
A72651 (9618106)		28.0	53.5	2.36
A72652 (9618107)		0.7	0.6	0.146
A72653 (9618108)		50.0	58.0	2.31
A72654 (9618109)		43.7	56.5	2.52
A72655 (9618110)		52.0	56.6	2.35
A72656 (9618111)		34.1	56.2	2.27
A72657 (9618112)		36.0	57.1	2.20
A72658 (9618113)		37.2	59.7	2.38
A72659 (9618114)		29.6	52.1	2.14
A72660 (9618115)		25.5	55.4	2.38
A72661 (9618116)		42.7	62.8	2.71
A72662 (9618117)		34.8	61.7	2.15
A72663 (9618118)		33.5	49.0	1.84
A72664 (9618119)		30.8	67.1	2.18
A72665 (9618120)		28.4	62.0	2.11
A72666 (9618121)		20.4	99.6	0.786
A72667 (9618122)		19.7	58.6	1.81
A72668 (9618123)		19.6	60.9	1.80
A72669 (9618124)		20.5	64.6	2.10
A72670 (9618125)		23.0	66.2	2.03
A72671 (9618126)		22.2	78.2	2.06
A72672 (9618127)		0.5	0.9	0.150
A72673 (9618128)		18.7	102	3.58
A72674 (9618129)		15.0	114	11.8

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9618098-9618129 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Au	Unit: ppm	RDL: 0.001
A72643 (9618098)		0.117	
A72644 (9618099)		0.309	
A72645 (9618100)		0.012	
A72646 (9618101)		1.28	
A72647 (9618102)		0.021	
A72648 (9618103)		0.008	
A72649 (9618104)		0.154	
A72650 (9618105)		0.003	
A72651 (9618106)		0.002	
A72652 (9618107)		0.003	
A72653 (9618108)		0.003	
A72654 (9618109)		0.023	
A72655 (9618110)		0.009	
A72656 (9618111)		0.082	
A72657 (9618112)		0.008	
A72658 (9618113)		0.008	
A72659 (9618114)		0.005	
A72660 (9618115)		0.006	
A72661 (9618116)		0.007	
A72662 (9618117)		0.002	
A72663 (9618118)		0.330	
A72664 (9618119)		0.022	
A72665 (9618120)		0.015	
A72666 (9618121)		2.37	
A72667 (9618122)		0.010	
A72668 (9618123)		0.032	
A72669 (9618124)		0.015	
A72670 (9618125)		0.027	
A72671 (9618126)		0.013	
A72672 (9618127)		<0.001	
A72673 (9618128)		0.245	
A72674 (9618129)		<0.001	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72643 (9618098)		75
A72662 (9618117)		83

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396156

PROJECT: AGAT00379

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CANADA L4Z 1N9  
TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72643 (9618098)		99
A72672 (9618127)		96

Comments: RDL - Reported Detection Limit

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9618098	1.13	1.37	19.2%	9618112	0.5	0.5	0.0%	9618123	0.63	0.70	10.5%				
Al	9618098	7.60	8.34	9.3%	9618112	8.29	7.94	4.3%	9618123	8.90	8.56	3.9%				
As	9618098	14	7		9618112	7	8	13.3%	9618123	10	18					
Ba	9618098	633	714	12.0%	9618112	757	727	4.0%	9618123	609	591	3.0%				
Be	9618098	1.78	1.97	10.1%	9618112	2.24	2.25	0.4%	9618123	1.89	1.98	4.7%				
Bi	9618098	< 1	< 1	0.0%	9618112	< 1	< 1	0.0%	9618123	< 1	< 1	0.0%				
Ca	9618098	2.68	2.71	1.1%	9618112	3.06	2.89	5.7%	9618123	3.10	2.92	6.0%				
Cd	9618098	< 0.5	< 0.5	0.0%	9618112	< 0.5	< 0.5	0.0%	9618123	< 0.5	< 0.5	0.0%				
Ce	9618098	68	75	9.8%	9618112	93	94	1.1%	9618123	96	93	3.2%				
Co	9618098	13.2	12.7	3.9%	9618112	8.74	9.36	6.9%	9618123	9.4	10.0	6.2%				
Cr	9618098	54.8	52.0	5.2%	9618112	59.6	62.3	4.4%	9618123	67.2	71.8	6.6%				
Cu	9618098	104	113	8.3%	9618112	10.1	9.32	8.0%	9618123	30.0	30.8	2.6%				
Fe	9618098	3.61	3.82	5.7%	9618112	2.81	2.67	5.1%	9618123	2.83	2.71	4.3%				
Ga	9618098	28	29	3.5%	9618112	32	31	3.2%	9618123	32	33	3.1%				
In	9618098	< 1	< 1	0.0%	9618112	< 1	< 1	0.0%	9618123	< 1	< 1	0.0%				
K	9618098	2.13	2.37	10.7%	9618112	1.66	1.58	4.9%	9618123	1.83	1.76	3.9%				
La	9618098	30	31	3.3%	9618112	39	39	0.0%	9618123	41	41	0.0%				
Li	9618098	15	15	0.0%	9618112	21	20	4.9%	9618123	17	17	0.0%				
Mg	9618098	1.00	1.02	2.0%	9618112	1.53	1.45	5.4%	9618123	1.51	1.46	3.4%				
Mn	9618098	358	353	1.4%	9618112	401	387	3.6%	9618123	359	351	2.3%				
Mo	9618098	8.7	9.5	8.8%	9618112	3.9	3.7	5.3%	9618123	4.71	5.01	6.2%				
Na	9618098	2.81	3.13	10.8%	9618112	3.97	3.76	5.4%	9618123	3.69	3.44	7.0%				
Ni	9618098	47.7	44.0	8.1%	9618112	48.4	47.3	2.3%	9618123	46.1	46.9	1.7%				
P	9618098	677	720	6.2%	9618112	841	838	0.4%	9618123	953	963	1.0%				
S	9618098	0.982	1.04	5.7%	9618112	0.37	0.36	2.7%	9618123	0.59	0.58	1.7%				
Sb	9618098	2	2	0.0%	9618112	1	< 1		9618123	3	< 1					
Sc	9618098	7	7	0.0%	9618112	7	7	0.0%	9618123	7	7	0.0%				
Se	9618098	< 10	< 10	0.0%	9618112	< 10	< 10	0.0%	9618123	< 10	< 10	0.0%				
Sn	9618098	< 5	< 5	0.0%	9618112	< 5	< 5	0.0%	9618123	< 5	< 5	0.0%				
Sr	9618098	584	644	9.8%	9618112	875	820	6.5%	9618123	874	809	7.7%				
Ta	9618098	< 10	< 10	0.0%	9618112	< 10	< 10	0.0%	9618123	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9618098	< 10	< 10	0.0%	9618112	< 10	< 10	0.0%	9618123	< 10	< 10	0.0%				
Th	9618098	< 5	< 5	0.0%	9618112	< 5	< 5	0.0%	9618123	< 5	< 5	0.0%				
Ti	9618098	0.194	0.198	2.0%	9618112	0.20	0.20	0.0%	9618123	0.211	0.204	3.4%				
Tl	9618098	< 5	< 5	0.0%	9618112	< 5	< 5	0.0%	9618123	< 5	< 5	0.0%				
V	9618098	49.1	49.2	0.2%	9618112	55.7	55.7	0.0%	9618123	54.5	55.1	1.1%				
W	9618098	3	3	0.0%	9618112	< 1	3		9618123	2	3					
Y	9618098	10	11	9.5%	9618112	10	10	0.0%	9618123	9	10	10.5%				
Zn	9618098	73.7	79.1	7.1%	9618112	69.8	65.9	5.7%	9618123	43.9	43.6	0.7%				
Zr	9618098	108	119	9.7%	9618112	127	125	1.6%	9618123	124	122	1.6%				

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Pb	9618098	89.0	96.8	8.4%	9618112	36.0	36.0	0.0%	9618123	19.6	20.4	4.0%				
Rb	9618098	72.5	78.2	7.6%	9618112	57.1	56.8	0.5%	9618123	60.9	63.4	4.0%				
U	9618098	2.00	2.10	4.9%	9618112	2.20	2.25	2.2%	9618123	1.80	1.87	3.8%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9618098	0.117	0.135	14.3%	9618112	0.0077	0.0069	11.0%	9618123	0.032	0.031	3.2%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.GS6E)				CRM #2 (ref.GTS-2a)				CRM #3 (ref.WW07)				CRM #4 (ref.WW03)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Al					6.96	6.69	96%	90% - 110%								
As					124	120	97%	90% - 110%								
Ba	340	309	90%	90% - 110%	186	184	99%	90% - 110%								
Be	2.6	2.7	103%	90% - 110%												
Ca	5.72	5.19	90%	90% - 110%	4.01	3.87	97%	90% - 110%								
Ce					24	22	90%	90% - 110%								
Co					22.1	20.7	93%	90% - 110%								
Cu					88.6	94.2	106%	90% - 110%								
Fe	4.34	4.07	93%	90% - 110%	7.56	7.47	99%	90% - 110%								
Ga	35	35.6	101%	90% - 110%												
K	1.37	1.27	92%	90% - 110%	2.021	1.874	93%	90% - 110%								
Li	37	34	91%	90% - 110%												
Mg					2.412	2.324	96%	90% - 110%								
Mn					1510	1480	98%	90% - 110%								
Na	5.267	4.79	90%	90% - 110%	0.617	0.585	95%	90% - 110%								
Ni					77.1	80.2	104%	90% - 110%								
P					892	943	106%	90% - 110%								
S					0.348	0.323	92%	90% - 110%								
Sr					92.8	90.0	97%	90% - 110%								
Ti	0.172	0.158	91%	90% - 110%												
Zn	93	88.0	95%	90% - 110%	208	209	101%	90% - 110%								

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)				CRM #4 (ref.WW03)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Pb	10	9	91%	90% - 110%												
Rb	55	60	109%	90% - 110%												

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GS6E)				CRM #2 (ref.WW03)				CRM #3 (ref.WW07)				CRM #4 (ref.WW03)			
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits
Au	6.06	6.26	103%	90% - 110%	2.01	1.9	94%	90% - 110%	6.56	6.23	95%	90% - 110%	2.01	1.88	93%	90% - 110%



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00379  
 SAMPLING SITE:

AGAT WORK ORDER: 18B396156  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00380

AGAT WORK ORDER: 18B396157

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 25, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72560 (9618130)		0.91
A72561 (9618131)		2.97
A72562 (9618132)		2.05
A72563 (9618133)		2.15
A72564 (9618134)		1.24
A72565 (9618135)		2.22
A72566 (9618136)		0.07
A72567 (9618137)		3.32
A72568 (9618138)		2.70
A72569 (9618139)		2.90
A72570 (9618140)		2.98
A72571 (9618141)		2.23
A72572 (9618142)		1.42
A72573 (9618143)		2.56
A72574 (9618144)		2.60
A72575 (9618145)		3.35
A72576 (9618146)		3.36
A72577 (9618147)		1.92
A72578 (9618148)		1.92
A72579 (9618149)		2.35

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Oct 25, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72560 (9618130)	0.5	5.92	6	808	2.3	<1	1.64	<0.5	67	5.6	40.3	42.3	1.48	27	
A72561 (9618131)	<0.5	6.20	4	794	2.2	<1	1.32	<0.5	63	5.1	36.7	25.9	1.40	26	
A72562 (9618132)	0.5	7.02	2	847	2.3	<1	1.47	<0.5	63	5.0	41.7	3.2	1.63	27	
A72563 (9618133)	0.5	7.86	4	1170	2.6	<1	2.36	<0.5	99	7.7	66.4	3.6	2.17	32	
A72564 (9618134)	0.5	7.72	<1	917	2.6	<1	2.10	<0.5	66	5.5	30.8	0.6	1.82	29	
A72565 (9618135)	<0.5	7.58	6	1150	6.3	<1	1.92	<0.5	66	4.4	32.7	1.3	1.63	26	
A72566 (9618136)	<0.5	7.74	<1	207	1.0	<1	6.89	<0.5	20	35.6	165	115	7.95	40	
A72567 (9618137)	0.5	8.51	2	1360	4.0	<1	2.42	<0.5	81	4.7	33.0	1.3	1.99	28	
A72568 (9618138)	0.7	6.74	2	1090	2.5	<1	1.97	<0.5	82	5.2	30.6	0.7	1.53	28	
A72569 (9618139)	0.8	8.64	4	1250	2.4	<1	2.36	<0.5	87	4.8	31.3	0.8	1.94	31	
A72570 (9618140)	0.5	9.54	3	1310	2.4	<1	2.55	<0.5	83	4.5	32.8	1.4	2.12	28	
A72571 (9618141)	<0.5	6.87	2	982	2.4	<1	1.66	<0.5	80	5.3	25.1	9.0	1.51	27	
A72572 (9618142)	<0.5	0.13	4	22	<0.5	<1	39.7	<0.5	<1	0.6	9.4	<0.5	0.17	15	
A72573 (9618143)	0.7	6.92	3	1020	1.9	<1	1.71	<0.5	54	5.7	21.6	34.0	1.53	25	
A72574 (9618144)	0.6	7.45	1	1170	2.2	<1	1.68	<0.5	77	4.0	28.6	23.8	1.54	27	
A72575 (9618145)	<0.5	6.56	2	876	2.0	<1	1.58	<0.5	63	4.6	29.9	12.0	1.54	24	
A72576 (9618146)	<0.5	8.03	4	1050	2.2	<1	2.02	<0.5	82	4.5	30.0	0.8	1.81	28	
A72577 (9618147)	<0.5	7.91	4	992	2.2	<1	2.03	<0.5	78	5.3	27.7	<0.5	1.83	28	
A72578 (9618148)	0.6	8.07	2	957	2.3	<1	2.04	<0.5	82	4.7	40.4	<0.5	1.82	27	
A72579 (9618149)	<0.5	7.37	2	1050	2.1	<1	1.83	<0.5	79	4.8	27.1	2.5	1.66	29	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Oct 25, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72560 (9618130)	<1	1.36	29	17	0.75	248	5.6	2.66	16.2	649	0.03	2	3	<10	
A72561 (9618131)	<1	1.48	26	11	0.68	187	5.3	2.86	14.7	626	<0.01	<1	3	<10	
A72562 (9618132)	<1	1.79	26	12	0.70	219	5.7	3.24	16.3	681	<0.01	<1	3	<10	
A72563 (9618133)	<1	2.11	41	22	1.21	408	4.4	3.29	31.3	837	0.01	2	6	<10	
A72564 (9618134)	<1	1.64	26	13	0.82	303	4.9	3.74	18.0	701	<0.01	<1	3	<10	
A72565 (9618135)	<1	2.68	27	16	0.73	317	4.7	3.40	14.8	594	<0.01	<1	4	<10	
A72566 (9618136)	<1	0.45	9	10	4.50	1440	1.1	2.36	111	877	0.08	3	33	<10	
A72567 (9618137)	<1	2.96	35	23	1.05	406	4.6	3.33	15.6	693	<0.01	<1	4	<10	
A72568 (9618138)	<1	2.42	36	20	0.86	330	4.4	2.39	14.8	648	<0.01	<1	4	<10	
A72569 (9618139)	<1	3.08	38	22	1.04	374	3.8	3.12	16.0	717	<0.01	<1	4	<10	
A72570 (9618140)	<1	3.35	34	27	0.99	400	5.7	3.68	15.9	725	0.02	<1	4	<10	
A72571 (9618141)	<1	2.14	33	20	0.75	285	4.1	2.67	15.3	661	0.02	<1	3	<10	
A72572 (9618142)	<1	0.03	3	1	2.79	87	2.8	0.06	<0.5	94	<0.01	<1	<1	<10	
A72573 (9618143)	<1	2.16	21	10	0.68	281	4.5	3.31	13.4	636	0.05	<1	2	<10	
A72574 (9618144)	<1	2.24	31	16	0.72	220	3.8	3.34	14.5	684	0.01	2	3	<10	
A72575 (9618145)	<1	1.88	26	15	0.71	235	4.8	2.82	13.0	606	<0.01	<1	3	<10	
A72576 (9618146)	<1	2.69	34	19	0.83	325	3.9	3.00	14.8	632	<0.01	<1	3	<10	
A72577 (9618147)	<1	2.63	33	20	1.00	361	4.1	2.95	15.7	699	<0.01	2	3	<10	
A72578 (9618148)	<1	2.63	34	19	0.96	347	4.0	2.90	15.9	672	<0.01	<1	3	<10	
A72579 (9618149)	<1	2.38	33	18	0.90	315	3.6	2.72	15.8	665	<0.01	<1	3	<10	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018						DATE REPORTED: Oct 25, 2018				SAMPLE TYPE: Drill Core	
Analyte:	Sn	Sr	Ta	Te	Th	Ti	Tl	V	W	Y	Zn	Zr
Unit:	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	5	1	10	10	5	0.01	5	0.5	1	1	0.5	5
A72560 (9618130)	<5	487	<10	<10	<5	0.12	<5	34.7	2	9	42.3	120
A72561 (9618131)	<5	528	<10	<10	<5	0.12	<5	31.1	2	8	43.7	125
A72562 (9618132)	<5	718	<10	<10	<5	0.14	<5	34.3	1	8	48.8	134
A72563 (9618133)	<5	843	<10	<10	<5	0.19	<5	46.0	2	11	74.7	136
A72564 (9618134)	<5	845	<10	<10	<5	0.16	<5	35.2	1	8	54.4	141
A72565 (9618135)	<5	533	<10	<10	<5	0.15	<5	33.4	5	8	51.1	133
A72566 (9618136)	<5	251	<10	<10	<5	0.78	<5	237	3	21	98	91
A72567 (9618137)	<5	995	<10	<10	<5	0.17	<5	33.3	4	9	65.2	144
A72568 (9618138)	<5	670	<10	<10	<5	0.13	<5	32.6	3	9	50.5	123
A72569 (9618139)	<5	946	<10	<10	<5	0.16	<5	34.8	4	9	76.4	137
A72570 (9618140)	<5	872	<10	<10	<5	0.16	<5	35.1	2	9	90.1	145
A72571 (9618141)	<5	611	<10	<10	<5	0.11	<5	31.8	2	8	53.0	121
A72572 (9618142)	<5	83	<10	<10	<5	<0.01	<5	1.5	2	2	3.7	<5
A72573 (9618143)	<5	644	<10	<10	<5	0.10	<5	30.8	1	6	48.1	128
A72574 (9618144)	<5	767	<10	<10	<5	0.12	<5	30.9	2	8	56.8	141
A72575 (9618145)	<5	643	<10	<10	<5	0.13	<5	28.8	2	7	48.6	116
A72576 (9618146)	<5	839	<10	<10	<5	0.16	<5	32.0	1	9	56.3	132
A72577 (9618147)	<5	790	<10	<10	<5	0.17	<5	34.0	2	9	57.5	136
A72578 (9618148)	<5	811	<10	<10	<5	0.17	<5	32.4	<1	9	57.2	136
A72579 (9618149)	<5	749	<10	<10	<5	0.15	<5	32.9	2	9	51.7	132

Comments: RDL - Reported Detection Limit  
9618130-9618149 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72560 (9618130)		12.3	57.1	1.77
A72561 (9618131)		13.7	59.4	1.90
A72562 (9618132)		16.0	54.4	1.59
A72563 (9618133)		14.6	86.9	2.20
A72564 (9618134)		15.7	60.1	1.74
A72565 (9618135)		12.4	74.2	2.08
A72566 (9618136)		2.9	12.3	0.396
A72567 (9618137)		14.9	78.2	2.34
A72568 (9618138)		15.5	85.2	2.37
A72569 (9618139)		18.3	81.4	2.31
A72570 (9618140)		18.6	81.5	2.45
A72571 (9618141)		17.1	77.5	2.77
A72572 (9618142)		0.4	0.8	0.152
A72573 (9618143)		17.7	68.3	2.75
A72574 (9618144)		18.6	71.3	2.44
A72575 (9618145)		16.7	68.5	2.31
A72576 (9618146)		18.3	73.4	2.10
A72577 (9618147)		18.3	83.3	2.74
A72578 (9618148)		18.6	81.2	2.88
A72579 (9618149)		19.5	83.6	2.96

Comments: RDL - Reported Detection Limit

9618130-9618149 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018	DATE REPORTED: Oct 25, 2018	SAMPLE TYPE: Drill Core
Analyte: Au	Unit: ppm	RDL: 0.001	
Sample ID (AGAT ID)			
A72560 (9618130)		0.008	
A72561 (9618131)		0.007	
A72562 (9618132)		0.004	
A72563 (9618133)		0.011	
A72564 (9618134)		0.003	
A72565 (9618135)		0.003	
A72566 (9618136)		0.350	
A72567 (9618137)		0.008	
A72568 (9618138)		0.006	
A72569 (9618139)		0.004	
A72570 (9618140)		0.006	
A72571 (9618141)		0.003	
A72572 (9618142)		<0.001	
A72573 (9618143)		0.003	
A72574 (9618144)		0.006	
A72575 (9618145)		0.004	
A72576 (9618146)		0.007	
A72577 (9618147)		0.004	
A72578 (9618148)		0.002	
A72579 (9618149)		0.002	

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72560 (9618130)		85
A72579 (9618149)		76

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396157

PROJECT: AGAT00380

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72560 (9618130)	96

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9618130	0.5	0.5	0.0%	9618144	0.63	0.70	10.5%				
Al	9618130	5.92	6.59	10.7%	9618144	7.45	6.64	11.5%				
As	9618130	6	3		9618144	1	2					
Ba	9618130	808	891	9.8%	9618144	1170	1020	13.7%				
Be	9618130	2.34	2.39	2.1%	9618144	2.2	2.3	4.4%				
Bi	9618130	< 1	< 1	0.0%	9618144	< 1	< 1	0.0%				
Ca	9618130	1.64	1.80	9.3%	9618144	1.68	1.52	10.0%				
Cd	9618130	< 0.5	< 0.5	0.0%	9618144	< 0.5	< 0.5	0.0%				
Ce	9618130	67	66	1.5%	9618144	77	74	4.0%				
Co	9618130	5.57	6.28	12.0%	9618144	4.0	4.3	7.2%				
Cr	9618130	40.3	42.2	4.6%	9618144	28.6	29.0	1.4%				
Cu	9618130	42.3	40.4	4.6%	9618144	23.8	26.1	9.2%				
Fe	9618130	1.48	1.60	7.8%	9618144	1.54	1.42	8.1%				
Ga	9618130	27	27	0.0%	9618144	27	29	7.1%				
In	9618130	< 1	< 1	0.0%	9618144	< 1	< 1	0.0%				
K	9618130	1.36	1.53	11.8%	9618144	2.24	1.98	12.3%				
La	9618130	29	27	7.1%	9618144	31	30	3.3%				
Li	9618130	17	19	11.1%	9618144	16	14	13.3%				
Mg	9618130	0.75	0.82	8.9%	9618144	0.723	0.625	14.5%				
Mn	9618130	248	267	7.4%	9618144	220	190	14.6%				
Mo	9618130	5.6	5.7	1.8%	9618144	3.8	4.2	10.0%				
Na	9618130	2.66	3.05	13.7%	9618144	3.34	3.03	9.7%				
Ni	9618130	16.2	15.8	2.5%	9618144	14.5	15.4	6.0%				
P	9618130	649	653	0.6%	9618144	684	707	3.3%				
S	9618130	0.027	0.023	16.0%	9618144	0.01	0.01	0.0%				
Sb	9618130	2	< 1		9618144	2	1					
Sc	9618130	3	3	0.0%	9618144	3	3	0.0%				
Se	9618130	< 10	< 10	0.0%	9618144	< 10	< 10	0.0%				
Sn	9618130	< 5	< 5	0.0%	9618144	< 5	< 5	0.0%				
Sr	9618130	487	540	10.3%	9618144	767	708	8.0%				
Ta	9618130	< 10	< 10	0.0%	9618144	< 10	< 10	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9618130	< 10	< 10	0.0%	9618144	< 10	< 10	0.0%										
Th	9618130	< 5	< 5	0.0%	9618144	< 5	< 5	0.0%										
Ti	9618130	0.12	0.14	15.4%	9618144	0.115	0.105	9.1%										
Tl	9618130	< 5	< 5	0.0%	9618144	< 5	< 5	0.0%										
V	9618130	34.7	34.9	0.6%	9618144	30.9	31.9	3.2%										
W	9618130	2	2	0.0%	9618144	2	3											
Y	9618130	9	9	0.0%	9618144	8	8	0.0%										
Zn	9618130	42.3	47.0	10.5%	9618144	56.8	52.4	8.1%										
Zr	9618130	120	125	4.1%	9618144	141	130	8.1%										

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2													
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Pb	9618130	12.3	11.8	4.1%	9618144	18.6	18.4	1.1%										
Rb	9618130	57.1	55.2	3.4%	9618144	71.3	71.4	0.1%										
U	9618130	1.77	1.70	4.0%	9618144	2.44	2.39	2.1%										

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2													
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Au	9618130	0.008	0.022		9618144	0.006	0.004											



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.Till-2)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al					8.17	8.16	100%	90% - 110%							
As					26	25	96%	90% - 110%							
Ba	340	315	92%	90% - 110%	540	517	96%	90% - 110%							
Be	2.6	2.6	100%	90% - 110%	4.0	3.5	87%	90% - 110%							
Ca	5.72	5.5	96%	90% - 110%	0.907	0.906	100%	90% - 110%							
Ce					98	97	99%	90% - 110%							
Cr					60.3	56.8	94%	90% - 110%							
Cu	7	7	100%	90% - 110%	150	154	102%	90% - 110%							
Fe	4.34	4.05	93%	90% - 110%	3.77	3.68	98%	90% - 110%							
Ga	35	34.1	97%	90% - 110%											
K	1.37	1.24	90%	90% - 110%											
La					44	39	88%	90% - 110%							
Li	37	34	91%	90% - 110%	47	45	95%	90% - 110%							
Mg					1.10	1.1	100%	90% - 110%							
Mn					780	777	100%	90% - 110%							
Mo					14	15	105%	90% - 110%							
Na	5.267	5.01	95%	90% - 110%	1.624	1.651	102%	90% - 110%							
Ni					32	32	101%	90% - 110%							
P					750	731	98%	90% - 110%							
Sc					12	11	92%	90% - 110%							
Sr					144	145	100%	90% - 110%							
Ta					1.9	1.8	97%	90% - 110%							
Ti	0.172	0.159	92%	90% - 110%	0.53	0.39	74%	90% - 110%							
V					77	74	96%	90% - 110%							
W					5	5	107%	90% - 110%							
Zn	93	94	101%	90% - 110%	130	134	103%	90% - 110%							

**(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Pb	10	9	94%	90% - 110%	31	28	90%	90% - 110%							
Rb	55	60	109%	90% - 110%	143	138	96%	90% - 110%							





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

U					5.7	4.4	78%	90% - 110%									
(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)																	
	CRM #1 (ref.WW07)				CRM #2 (ref.WW03)												
Parameter	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits									
Au	6.56	5.98	91%	90% - 110%	2.01	2.21	109%	90% - 110%									



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00380  
 SAMPLING SITE:

AGAT WORK ORDER: 18B396157  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00381

AGAT WORK ORDER: 18B396159

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 30, 2018

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 30, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72580 (9618151)		2.09
A72581 (9618152)		2.85
A72582 (9618153)		3.22
A72583 (9618154)		2.90
A72584 (9618155)		3.30
A72585 (9618156)		3.08
A72586 (9618157)		0.07
A72587 (9618158)		2.73
A72588 (9618159)		0.77
A72589 (9618160)		3.00
A72590 (9618161)		3.46
A72591 (9618162)		3.34
A72592 (9618163)		1.20
A72593 (9618164)		3.40
A72594 (9618165)		2.97
A72595 (9618166)		3.45
A72596 (9618167)		1.97
A72597 (9618168)		1.92
A72598 (9618169)		1.92
A72599 (9618170)		1.70

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Oct 30, 2018					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72580 (9618151)		<0.5	8.41	3	1060	2.5	<1	1.67	<0.5	96	5.0	37.2	10.7	1.81	26
A72581 (9618152)		<0.5	8.27	<1	1160	2.4	<1	1.73	<0.5	93	4.8	34.3	10.9	1.98	27
A72582 (9618153)		<0.5	8.36	2	1650	2.5	<1	1.88	<0.5	96	5.8	28.3	1.3	2.13	28
A72583 (9618154)		<0.5	8.31	<1	1130	2.4	<1	1.99	<0.5	90	5.1	24.7	<0.5	1.94	29
A72584 (9618155)		<0.5	7.79	3	880	2.6	<1	2.04	<0.5	90	4.4	22.1	1.2	1.67	26
A72585 (9618156)		<0.5	8.19	4	1000	2.4	<1	1.84	<0.5	99	5.2	26.0	55.8	1.82	27
A72586 (9618157)		<0.5	7.79	<1	199	1.4	7	6.88	<0.5	22	39.0	186	107	8.05	35
A72587 (9618158)		<0.5	8.12	5	1200	2.4	<1	2.03	<0.5	90	4.7	23.2	2.0	1.80	26
A72588 (9618159)		<0.5	6.34	5	879	2.3	<1	1.98	<0.5	71	3.8	16.2	<0.5	1.48	22
A72589 (9618160)		<0.5	8.97	3	1080	2.9	<1	2.41	<0.5	102	5.5	26.5	<0.5	2.12	29
A72590 (9618161)		<0.5	8.31	<1	1020	2.6	<1	1.98	<0.5	94	4.8	23.4	1.5	1.94	26
A72591 (9618162)		<0.5	8.41	3	977	2.3	<1	2.13	<0.5	91	4.6	21.9	4.3	1.83	25
A72592 (9618163)		<0.5	0.09	2	14	<0.5	<1	31.1	<0.5	<1	0.6	7.2	<0.5	0.13	11
A72593 (9618164)		<0.5	8.33	4	911	2.2	1	2.25	<0.5	90	4.8	21.3	26.2	1.78	24
A72594 (9618165)		<0.5	8.27	3	773	2.3	<1	2.23	<0.5	92	4.6	20.8	7.1	1.71	24
A72595 (9618166)		<0.5	8.39	4	729	3.3	<1	2.33	<0.5	92	4.2	27.0	2.2	1.73	26
A72596 (9618167)		<0.5	8.22	<1	621	2.6	<1	2.21	<0.5	90	4.5	24.9	11.0	1.77	25
A72597 (9618168)		<0.5	8.14	4	600	2.1	<1	2.06	<0.5	94	5.5	22.8	18.0	1.86	26
A72598 (9618169)		<0.5	8.09	2	606	2.2	<1	2.07	<0.5	94	5.6	29.8	18.3	1.88	26
A72599 (9618170)		<0.5	5.58	<1	780	6.0	<1	6.68	<0.5	145	38.2	346	87.5	6.89	39

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Oct 30, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72580 (9618151)	<1	2.21	40	16	0.83	247	5.6	3.46	17.1	692	<20	<50	0.03	<1	
A72581 (9618152)	<1	2.16	39	23	1.06	297	4.3	3.18	15.2	678	<20	<50	0.04	<1	
A72582 (9618153)	<1	2.49	39	28	1.40	368	4.4	2.97	15.9	986	<20	<50	0.04	<1	
A72583 (9618154)	<1	2.93	38	30	1.49	338	4.3	2.65	15.2	702	<20	<50	0.02	<1	
A72584 (9618155)	<1	2.40	38	22	1.03	298	3.9	2.86	14.4	682	<20	<50	0.01	<1	
A72585 (9618156)	<1	2.59	41	19	0.88	298	4.5	2.98	15.7	717	<20	<50	0.09	<1	
A72586 (9618157)	<1	0.46	9	10	4.60	1360	1.6	2.26	106	885	<20	<50	0.08	<1	
A72587 (9618158)	<1	2.51	38	27	0.97	320	4.1	2.71	14.9	614	<20	<50	0.04	<1	
A72588 (9618159)	<1	1.63	29	22	0.95	349	1.7	2.06	11.5	1020	<20	<50	0.74	<1	
A72589 (9618160)	<1	2.91	42	29	1.26	379	3.9	2.96	17.8	753	<20	57	0.02	<1	
A72590 (9618161)	<1	2.75	39	19	1.02	324	4.1	2.92	15.6	692	<20	<50	0.01	<1	
A72591 (9618162)	<1	2.95	39	19	0.82	304	3.0	2.88	15.4	692	<20	<50	0.02	2	
A72592 (9618163)	<1	0.02	<2	<1	1.92	50	2.6	0.04	1.6	74	<20	<50	<0.01	<1	
A72593 (9618164)	<1	2.91	38	17	0.73	300	3.3	2.84	15.2	691	<20	<50	0.10	<1	
A72594 (9618165)	<1	2.82	39	18	0.72	291	4.0	2.74	15.1	685	<20	<50	0.02	<1	
A72595 (9618166)	<1	2.92	39	18	0.74	305	4.2	2.65	14.8	705	<20	<50	0.01	<1	
A72596 (9618167)	<1	2.76	38	21	0.81	305	4.4	2.98	14.7	708	<20	<50	0.04	<1	
A72597 (9618168)	<1	2.60	40	23	0.92	332	4.9	3.01	15.6	709	20	<50	0.17	2	
A72598 (9618169)	<1	2.57	40	23	0.91	334	5.8	3.03	16.8	717	20	<50	0.19	<1	
A72599 (9618170)	<1	2.32	61	68	5.95	1110	5.4	1.70	231	2220	27	56	0.27	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 30, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
A72580 (9618151)	4	<10	<5	692	<10	<10	<5	0.18	<5	<50	36.0	2	9	54.0
A72581 (9618152)	4	<10	<5	829	<10	<10	<5	0.18	<5	<50	34.5	2	9	60.0
A72582 (9618153)	4	<10	<5	738	<10	<10	<5	0.18	<5	<50	35.8	<1	11	59.7
A72583 (9618154)	4	<10	<5	577	<10	<10	<5	0.18	<5	<50	34.3	2	10	58.6
A72584 (9618155)	4	<10	<5	615	<10	<10	<5	0.16	<5	<50	32.9	1	12	52.7
A72585 (9618156)	4	<10	<5	605	<10	<10	<5	0.17	<5	<50	35.2	<1	10	59.4
A72586 (9618157)	34	<10	<5	250	<10	<10	<5	0.84	<5	<50	246	3	22	93.2
A72587 (9618158)	4	<10	<5	1600	<10	<10	<5	0.17	<5	<50	33.5	1	10	52.6
A72588 (9618159)	3	<10	<5	>10000	<10	<10	<5	0.13	<5	<50	25.8	12	10	46.2
A72589 (9618160)	4	<10	<5	913	<10	<10	<5	0.20	<5	<50	38.4	<1	11	66.8
A72590 (9618161)	4	<10	<5	546	<10	<10	<5	0.18	<5	<50	34.1	1	11	52.7
A72591 (9618162)	4	<10	<5	628	<10	<10	<5	0.19	<5	<50	34.9	1	10	53.7
A72592 (9618163)	<1	<10	<5	68	<10	<10	<5	<0.01	<5	<50	1.2	<1	2	2.4
A72593 (9618164)	4	<10	<5	558	<10	<10	<5	0.17	<5	<50	33.5	2	10	56.4
A72594 (9618165)	4	<10	<5	549	<10	<10	<5	0.18	<5	<50	35.2	2	10	54.0
A72595 (9618166)	4	<10	<5	542	<10	<10	<5	0.18	<5	<50	35.3	2	10	59.4
A72596 (9618167)	4	<10	<5	466	<10	<10	<5	0.17	<5	<50	34.0	3	11	52.1
A72597 (9618168)	4	<10	<5	420	<10	<10	<5	0.16	<5	<50	34.4	2	10	50.4
A72598 (9618169)	4	<10	<5	430	<10	<10	<5	0.16	<5	<50	35.0	3	10	52.6
A72599 (9618170)	18	<10	<5	705	<10	<10	<5	1.47	<5	<50	215	2	21	90.8

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 30, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72580 (9618151)				134
A72581 (9618152)				140
A72582 (9618153)				131
A72583 (9618154)				129
A72584 (9618155)				130
A72585 (9618156)				135
A72586 (9618157)				89
A72587 (9618158)				140
A72588 (9618159)				103
A72589 (9618160)				155
A72590 (9618161)				138
A72591 (9618162)				131
A72592 (9618163)				<5
A72593 (9618164)				142
A72594 (9618165)				129
A72595 (9618166)				133
A72596 (9618167)				133
A72597 (9618168)				133
A72598 (9618169)				127
A72599 (9618170)				233

Comments: RDL - Reported Detection Limit  
 9618151-9618170 As, Sb values may be low due to digestion losses.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 30, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72580 (9618151)			0.018
A72581 (9618152)			0.003
A72582 (9618153)			0.003
A72583 (9618154)			0.005
A72584 (9618155)			0.003
A72585 (9618156)			0.009
A72586 (9618157)			0.343
A72587 (9618158)			0.002
A72588 (9618159)			0.391
A72589 (9618160)			0.005
A72590 (9618161)			0.014
A72591 (9618162)			0.028
A72592 (9618163)			<0.001
A72593 (9618164)			0.014
A72594 (9618165)			0.021
A72595 (9618166)			0.013
A72596 (9618167)			0.097
A72597 (9618168)			0.663
A72598 (9618169)			0.616
A72599 (9618170)			0.091

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018	DATE REPORTED: Oct 30, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72580 (9618151)		90
A72581 (9618152)		82
A72599 (9618170)		81

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396159

PROJECT: AGAT00381

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 30, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72580 (9618151)	97

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9618151	< 0.5	< 0.5	0.0%	9618165	< 0.5	< 0.5	0.0%				
Al	9618151	8.41	8.53	1.4%	9618165	8.27	8.17	1.2%				
As	9618151	3	3	0.0%	9618165	3	2					
Ba	9618151	1060	1070	0.9%	9618165	773	784	1.4%				
Be	9618151	2.48	2.40	3.3%	9618165	2.3	2.3	0.0%				
Bi	9618151	< 1	< 1	0.0%	9618165	< 1	< 1	0.0%				
Ca	9618151	1.67	1.69	1.2%	9618165	2.23	2.21	0.9%				
Cd	9618151	< 0.5	< 0.5	0.0%	9618165	< 0.5	< 0.5	0.0%				
Ce	9618151	96	94	2.1%	9618165	92	93	1.1%				
Co	9618151	5.0	4.9	2.0%	9618165	4.6	4.8	4.3%				
Cr	9618151	37.2	34.4	7.8%	9618165	20.8	20.8	0.0%				
Cu	9618151	10.7	9.0	17.3%	9618165	7.1	7.3	2.8%				
Fe	9618151	1.81	1.80	0.6%	9618165	1.71	1.70	0.6%				
Ga	9618151	26	25	3.9%	9618165	24	25	4.1%				
In	9618151	< 1	< 1	0.0%	9618165	< 1	< 1	0.0%				
K	9618151	2.21	2.23	0.9%	9618165	2.82	2.78	1.4%				
La	9618151	40	41	2.5%	9618165	39	38	2.6%				
Li	9618151	16	16	0.0%	9618165	18	17	5.7%				
Mg	9618151	0.829	0.811	2.2%	9618165	0.72	0.72	0.0%				
Mn	9618151	247	240	2.9%	9618165	291	291	0.0%				
Mo	9618151	5.64	5.67	0.5%	9618165	3.96	3.57	10.4%				
Na	9618151	3.46	3.53	2.0%	9618165	2.74	2.78	1.4%				
Ni	9618151	17.1	16.1	6.0%	9618165	15.1	15.3	1.3%				
P	9618151	692	721	4.1%	9618165	685	664	3.1%				
Pb	9618151	< 20	< 20	0.0%	9618165	< 20	< 20	0.0%				
Rb	9618151	< 50	< 50	0.0%	9618165	< 50	< 50	0.0%				
S	9618151	0.03	0.03	0.0%	9618165	0.025	0.027	7.7%				
Sb	9618151	< 1	< 1	0.0%	9618165	< 1	< 1	0.0%				
Sc	9618151	4	4	0.0%	9618165	4	4	0.0%				
Se	9618151	< 10	< 10	0.0%	9618165	< 10	< 10	0.0%				
Sn	9618151	< 5	< 5	0.0%	9618165	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9618151	692	696	0.6%	9618165	549	559	1.8%								
Ta	9618151	< 10	< 10	0.0%	9618165	< 10	< 10	0.0%								
Te	9618151	< 10	< 10	0.0%	9618165	< 10	< 10	0.0%								
Th	9618151	< 5	< 5	0.0%	9618165	< 5	< 5	0.0%								
Ti	9618151	0.177	0.175	1.1%	9618165	0.18	0.18	0.0%								
Tl	9618151	< 5	< 5	0.0%	9618165	< 5	< 5	0.0%								
U	9618151	< 50	< 50	0.0%	9618165	< 50	< 50	0.0%								
V	9618151	36.0	35.9	0.3%	9618165	35.2	34.9	0.9%								
W	9618151	2	3		9618165	2	2	0.0%								
Y	9618151	9	9	0.0%	9618165	10	10	0.0%								
Zn	9618151	54.0	50.2	7.3%	9618165	54.0	54.1	0.2%								
Zr	9618151	134	136	1.5%	9618165	129	140	8.2%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	9618151	0.018	0.005		9618165	0.021	0.032									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.88	99%	90% - 110%											
Ba	340	319	94%	90% - 110%											
Be	2.6	2.7	105%	90% - 110%											
Ca	5.72	5.76	101%	90% - 110%											
Ce	122	125	103%	90% - 110%											
Cu	7	5	76%	90% - 110%											
Fe	4.34	4.09	94%	90% - 110%											
Ga	35	38	110%	90% - 110%											
K	1.37	1.41	103%	90% - 110%											
La	58	51	88%	90% - 110%											
Li	37	38	103%	90% - 110%											
Mg	0.325	0.31	96%	90% - 110%											
Na	5.267	5.199	99%	90% - 110%											
Ni	9	7	75%	90% - 110%											
Sr	1191	1190	100%	90% - 110%											
Ti	0.172	0.158	92%	90% - 110%											
Y	119	120	101%	90% - 110%											
Zn	93	92	99%	90% - 110%											

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.WW03)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	6.56	6.64	101%	90% - 110%	2.01	2.07	102%	90% - 110%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00381  
 SAMPLING SITE:

AGAT WORK ORDER: 18B396159  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00382

AGAT WORK ORDER: 18B396162

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Oct 25, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72600 (9618243)		2.33
A72601 (9618244)		0.74
A72602 (9618245)		0.82
A72603 (9618246)		0.85
A72604 (9618247)		2.24
A72605 (9618248)		3.61
A72606 (9618249)		0.07
A72607 (9618250)		1.58
A72608 (9618251)		2.11
A72609 (9618252)		3.45
A72610 (9618253)		3.35
A72611 (9618254)		3.58
A72612 (9618255)		1.13
A72613 (9618256)		3.50
A72614 (9618257)		3.45
A72615 (9618258)		3.38
A72616 (9618259)		1.50
A72617 (9618260)		2.66
A72618 (9618261)		2.66
A72619 (9618262)		1.54
A72620 (9618263)		1.57
A72621 (9618264)		2.34
A72622 (9618265)		2.24

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72600 (9618243)		<0.5	8.54	<1	1060	1.9	<1	3.54	<0.5	70	15.1	157	42.6	3.74	39
A72601 (9618244)		<0.5	6.05	2	809	2.1	<1	2.84	<0.5	61	15.8	143	14.5	2.59	35
A72602 (9618245)		<0.5	8.91	2	1290	2.0	<1	4.10	<0.5	79	15.4	191	11.2	3.82	36
A72603 (9618246)		<0.5	6.82	4	606	1.0	<1	3.98	<0.5	60	15.4	156	3.5	3.34	30
A72604 (9618247)		<0.5	7.79	2	577	1.6	<1	3.86	<0.5	69	16.3	195	16.8	3.64	36
A72605 (9618248)		<0.5	8.55	4	745	1.7	<1	3.67	<0.5	84	18.8	207	40.1	3.98	38
A72606 (9618249)		<0.5	7.77	2	204	1.2	<1	6.66	<0.5	20	38.3	214	114	7.58	42
A72607 (9618250)		<0.5	8.13	1	696	1.5	<1	3.23	<0.5	69	17.8	216	69.2	3.80	35
A72608 (9618251)		<0.5	8.94	2	1070	1.9	<1	3.80	<0.5	44	14.8	221	1.2	3.28	39
A72609 (9618252)		<0.5	7.06	3	651	1.9	<1	2.59	<0.5	38	14.4	202	35.7	2.54	36
A72610 (9618253)		<0.5	8.68	2	868	2.0	<1	3.51	<0.5	42	14.2	214	18.4	3.19	37
A72611 (9618254)		<0.5	8.20	3	800	1.5	<1	3.51	<0.5	39	13.4	201	10.9	3.13	35
A72612 (9618255)		<0.5	0.11	2	16	<0.5	<1	33.8	<0.5	<1	0.8	6.4	3.4	0.15	20
A72613 (9618256)		<0.5	8.41	2	822	1.6	<1	3.48	<0.5	40	13.2	210	22.6	3.13	34
A72614 (9618257)		<0.5	9.90	1	902	1.9	<1	3.79	<0.5	49	15.4	227	1.6	3.39	36
A72615 (9618258)		<0.5	9.12	<1	802	1.5	<1	3.62	<0.5	40	16.1	294	8.0	3.55	39
A72616 (9618259)		<0.5	8.14	<1	622	1.5	<1	3.65	<0.5	42	18.5	349	11.7	3.35	34
A72617 (9618260)		<0.5	7.81	2	320	0.9	<1	6.38	<0.5	24	42.9	92.9	142	8.46	42
A72618 (9618261)		<0.5	7.50	<1	309	0.9	6	5.88	<0.5	25	44.6	101	143	8.19	44
A72619 (9618262)		<0.5	7.36	3	314	1.5	<1	5.51	<0.5	26	44.6	66.8	156	8.18	41
A72620 (9618263)		<0.5	8.96	3	1200	2.0	<1	1.17	<0.5	91	4.4	34.4	2.9	2.09	26
A72621 (9618264)		<0.5	8.82	4	1190	2.1	<1	1.38	<0.5	90	4.6	44.0	3.0	1.95	27
A72622 (9618265)		0.6	8.14	1	1200	2.2	<1	1.03	<0.5	94	4.4	38.4	11.7	1.59	30

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018					DATE REPORTED: Oct 25, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	S	Sb	Sc	Se	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	0.01	1	1	10	
A72600 (9618243)	<1	1.64	29	22	2.21	572	3.9	3.70	71.9	913	0.04	3	12	<10	
A72601 (9618244)	<1	0.95	26	19	1.63	462	4.2	2.49	61.7	823	0.01	<1	11	<10	
A72602 (9618245)	<1	1.58	33	30	2.62	618	3.8	3.98	83.9	996	0.02	1	14	<10	
A72603 (9618246)	<1	1.06	25	17	2.38	644	3.4	2.99	70.9	742	0.01	2	10	<10	
A72604 (9618247)	<1	1.21	28	21	2.54	631	2.7	3.45	82.7	928	0.03	<1	12	<10	
A72605 (9618248)	<1	1.54	35	26	2.88	687	3.4	3.70	93.6	1080	0.11	<1	14	<10	
A72606 (9618249)	<1	0.41	9	10	4.45	1430	1.7	2.31	115	919	0.08	<1	34	<10	
A72607 (9618250)	<1	1.57	29	25	2.71	635	6.7	3.51	89.1	924	0.07	<1	13	<10	
A72608 (9618251)	<1	1.72	19	27	2.28	618	3.9	3.97	60.9	743	<0.01	1	11	<10	
A72609 (9618252)	<1	1.42	16	20	1.77	500	3.3	3.22	49.3	680	<0.01	1	10	<10	
A72610 (9618253)	<1	2.02	18	24	2.23	613	3.3	3.95	52.3	754	<0.01	3	11	<10	
A72611 (9618254)	<1	1.92	16	27	2.23	595	3.2	3.74	52.2	727	<0.01	4	11	<10	
A72612 (9618255)	<1	0.03	2	1	2.85	73	2.6	0.05	0.6	99	<0.01	<1	<1	<10	
A72613 (9618256)	<1	1.97	17	31	2.27	602	2.3	3.73	54.3	724	<0.01	<1	11	<10	
A72614 (9618257)	<1	2.07	21	38	2.45	663	2.3	4.06	56.7	866	<0.01	<1	12	<10	
A72615 (9618258)	<1	1.85	17	36	2.78	672	3.8	3.66	75.5	684	<0.01	2	12	<10	
A72616 (9618259)	<1	1.42	18	29	2.75	676	4.3	3.03	84.2	694	0.01	<1	13	<10	
A72617 (9618260)	<1	1.10	11	32	3.82	1470	2.2	1.60	89.5	473	0.10	6	32	<10	
A72618 (9618261)	<1	1.05	11	32	3.66	1430	2.5	1.47	88.9	478	0.10	<1	33	<10	
A72619 (9618262)	<1	0.97	12	29	3.45	1290	3.8	1.66	84.0	462	0.09	<1	32	<10	
A72620 (9618263)	<1	2.98	39	19	0.71	250	4.2	4.10	16.1	737	<0.01	<1	4	<10	
A72621 (9618264)	<1	2.41	39	22	0.72	275	4.8	3.95	15.8	739	<0.01	3	4	<10	
A72622 (9618265)	<1	2.48	42	22	0.63	168	4.2	3.02	14.6	747	0.02	<1	4	<10	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018						DATE REPORTED: Oct 25, 2018				SAMPLE TYPE: Drill Core	
Analyte: Unit: RDL:	Sn ppm 5	Sr ppm 1	Ta ppm 10	Te ppm 10	Th ppm 5	Ti % 0.01	Tl ppm 5	V ppm 0.5	W ppm 1	Y ppm 1	Zn ppm 0.5	Zr ppm 5
A72600 (9618243)	<5	806	<10	<10	<5	0.35	<5	94.0	4	16	80.9	123
A72601 (9618244)	<5	508	<10	<10	<5	0.24	<5	81.6	5	15	59.4	103
A72602 (9618245)	<5	787	<10	<10	<5	0.34	<5	102	4	17	93.5	132
A72603 (9618246)	<5	652	<10	<10	<5	0.28	<5	76.0	3	13	77.4	96
A72604 (9618247)	<5	785	<10	<10	<5	0.32	<5	95.6	3	17	76.5	113
A72605 (9618248)	<5	984	<10	<10	<5	0.35	<5	107	3	19	85.8	134
A72606 (9618249)	<5	246	<10	<10	<5	0.77	<5	246	4	22	95.4	95
A72607 (9618250)	<5	763	<10	<10	<5	0.33	<5	97.2	2	16	85.9	113
A72608 (9618251)	<5	792	<10	<10	<5	0.27	<5	83.9	3	13	68.2	75
A72609 (9618252)	<5	654	<10	<10	<5	0.21	<5	76.6	2	11	56.3	68
A72610 (9618253)	<5	818	<10	<10	<5	0.26	<5	82.6	2	12	64.6	72
A72611 (9618254)	<5	783	<10	<10	<5	0.25	<5	78.7	2	11	64.4	64
A72612 (9618255)	<5	73	<10	<10	<5	<0.01	<5	1.7	<1	2	2.6	<5
A72613 (9618256)	<5	780	<10	<10	<5	0.26	<5	80.7	2	11	66.1	67
A72614 (9618257)	<5	933	<10	<10	<5	0.29	<5	91.0	<1	13	70.7	84
A72615 (9618258)	<5	813	<10	<10	<5	0.28	<5	90.1	2	12	71.9	80
A72616 (9618259)	<5	870	<10	<10	<5	0.25	<5	93.2	3	12	73.2	83
A72617 (9618260)	<5	535	<10	<10	<5	0.48	<5	256	3	19	101	38
A72618 (9618261)	<5	486	<10	<10	<5	0.46	<5	262	4	19	98.5	41
A72619 (9618262)	<5	245	<10	<10	<5	0.44	<5	255	4	19	92.4	48
A72620 (9618263)	<5	514	<10	<10	<5	0.18	<5	34.9	4	8	58.6	118
A72621 (9618264)	<5	739	<10	<10	<5	0.18	<5	34.1	2	8	58.5	134
A72622 (9618265)	<5	596	<10	<10	<5	0.17	<5	40.1	2	9	50.1	138

Comments: RDL - Reported Detection Limit

9618243-9618265 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Pb ppm 0.1	Rb ppm 0.1	U ppm 0.005
A72600 (9618243)		11.8	49.1	1.08
A72601 (9618244)		11.6	43.5	1.14
A72602 (9618245)		12.4	53.2	1.11
A72603 (9618246)		9.6	35.0	0.910
A72604 (9618247)		11.0	41.9	1.17
A72605 (9618248)		15.4	58.2	1.27
A72606 (9618249)		3.5	11.9	0.407
A72607 (9618250)		15.4	56.9	1.04
A72608 (9618251)		14.3	53.6	1.09
A72609 (9618252)		13.6	46.6	0.974
A72610 (9618253)		12.7	60.0	0.972
A72611 (9618254)		12.5	62.0	1.01
A72612 (9618255)		0.3	0.7	0.119
A72613 (9618256)		13.0	58.4	1.10
A72614 (9618257)		16.4	68.4	1.24
A72615 (9618258)		14.3	61.3	0.996
A72616 (9618259)		14.9	58.2	1.08
A72617 (9618260)		9.2	39.5	0.424
A72618 (9618261)		8.8	37.4	0.409
A72619 (9618262)		5.0	35.1	0.608
A72620 (9618263)		18.2	75.6	2.85
A72621 (9618264)		19.9	68.7	2.69
A72622 (9618265)		20.6	85.2	2.81

Comments: RDL - Reported Detection Limit  
 9618243-9618265 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 11, 2018      DATE RECEIVED: Oct 11, 2018      DATE REPORTED: Oct 25, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A72600 (9618243)				0.006
A72601 (9618244)				0.060
A72602 (9618245)				0.002
A72603 (9618246)				<0.001
A72604 (9618247)				0.002
A72605 (9618248)				0.002
A72606 (9618249)				0.339
A72607 (9618250)				0.038
A72608 (9618251)				0.002
A72609 (9618252)				<0.001
A72610 (9618253)				0.006
A72611 (9618254)				0.004
A72612 (9618255)				<0.001
A72613 (9618256)				0.001
A72614 (9618257)				<0.001
A72615 (9618258)				0.003
A72616 (9618259)				0.006
A72617 (9618260)				0.008
A72618 (9618261)				0.007
A72619 (9618262)				0.009
A72620 (9618263)				0.022
A72621 (9618264)				<0.001
A72622 (9618265)				0.003

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 11, 2018

DATE RECEIVED: Oct 11, 2018

DATE REPORTED: Oct 25, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72600 (9618243)		80
A72616 (9618259)		80
A72619 (9618262)		77

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B396162

PROJECT: AGAT00382

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 11, 2018	DATE RECEIVED: Oct 11, 2018	DATE REPORTED: Oct 25, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72600 (9618243)	87

Comments: RDL - Reported Detection Limit

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9618243	< 0.5	< 0.5	0.0%	9618257	< 0.5	< 0.5	0.0%								
Al	9618243	8.54	9.03	5.6%	9618257	9.90	9.66	2.5%								
As	9618243	< 1	< 1	0.0%	9618257	1	4									
Ba	9618243	1060	1090	2.8%	9618257	902	860	4.8%								
Be	9618243	1.94	1.74	10.9%	9618257	1.88	1.84	2.2%								
Bi	9618243	< 1	< 1	0.0%	9618257	< 1	< 1	0.0%								
Ca	9618243	3.54	3.77	6.3%	9618257	3.79	3.61	4.9%								
Cd	9618243	< 0.5	< 0.5	0.0%	9618257	< 0.5	< 0.5	0.0%								
Ce	9618243	70	71	1.4%	9618257	49	50	2.0%								
Co	9618243	15.1	14.9	1.3%	9618257	15.4	14.5	6.0%								
Cr	9618243	157	146	7.3%	9618257	227	221	2.7%								
Cu	9618243	42.6	42.2	0.9%	9618257	1.60	1.32	19.2%								
Fe	9618243	3.74	3.92	4.7%	9618257	3.39	3.30	2.7%								
Ga	9618243	39	41	5.0%	9618257	36	37	2.7%								
In	9618243	< 1	< 1	0.0%	9618257	< 1	< 1	0.0%								
K	9618243	1.64	1.71	4.2%	9618257	2.07	2.01	2.9%								
La	9618243	29	29	0.0%	9618257	21	23	9.1%								
Li	9618243	22	23	4.4%	9618257	38	37	2.7%								
Mg	9618243	2.21	2.32	4.9%	9618257	2.45	2.39	2.5%								
Mn	9618243	572	600	4.8%	9618257	663	642	3.2%								
Mo	9618243	3.86	3.31	15.3%	9618257	2.3	2.5	8.3%								
Na	9618243	3.70	3.92	5.8%	9618257	4.06	3.92	3.5%								
Ni	9618243	71.9	69.4	3.5%	9618257	56.7	56.8	0.2%								
P	9618243	913	929	1.7%	9618257	866	807	7.1%								
S	9618243	0.038	0.035	8.2%	9618257	< 0.01	< 0.01	0.0%								
Sb	9618243	3	< 1		9618257	< 1	< 1	0.0%								
Sc	9618243	12	12	0.0%	9618257	12	12	0.0%								
Se	9618243	< 10	< 10	0.0%	9618257	< 10	< 10	0.0%								
Sn	9618243	< 5	< 5	0.0%	9618257	< 5	< 5	0.0%								
Sr	9618243	806	821	1.8%	9618257	933	882	5.6%								
Ta	9618243	< 10	< 10	0.0%	9618257	< 10	< 10	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Te	9618243	< 10	< 10	0.0%	9618257	< 10	< 10	0.0%												
Th	9618243	< 5	< 5	0.0%	9618257	< 5	< 5	0.0%												
Ti	9618243	0.35	0.36	2.8%	9618257	0.286	0.278	2.8%												
Tl	9618243	< 5	< 5	0.0%	9618257	< 5	< 5	0.0%												
V	9618243	94.0	93.4	0.6%	9618257	91.0	88.6	2.7%												
W	9618243	4	4	0.0%	9618257	< 1	2													
Y	9618243	16	17	6.1%	9618257	13	13	0.0%												
Zn	9618243	80.9	81.9	1.2%	9618257	70.7	67.6	4.5%												
Zr	9618243	123	126	2.4%	9618257	84	79	6.1%												

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	REPLICATE #1				REPLICATE #2																	
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD														
Pb	9618243	11.8	12.1	2.5%	9618257	16.4	16.3	0.6%														
Rb	9618243	49.1	49.8	1.4%	9618257	68.4	70.8	3.4%														
U	9618243	1.08	1.12	3.6%	9618257	1.24	1.20	3.3%														

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2																	
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD														
Au	9618243	0.0055	0.0041	29.2%	9618257	< 0.001	< 0.001	0.0%														



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	11.6	106%	90% - 110%	8.17	8.21	100%	90% - 110%								
As					26	23	90%	90% - 110%								
Ba	340	343	101%	90% - 110%	540	502	93%	90% - 110%								
Be	2.6	2.8	107%	90% - 110%	4.0	3.5	89%	90% - 110%								
Ca	5.72	6.26	109%	90% - 110%	0.907	0.909	100%	90% - 110%								
Ce	122	126	103%	90% - 110%	98	100	103%	90% - 110%								
Cr					60.3	58.2	97%	90% - 110%								
Cu	7	6	85%	90% - 110%	150	162	108%	90% - 110%								
Fe	4.34	4.47	103%	90% - 110%	3.77	3.49	93%	90% - 110%								
Ga	35	38.3	109%	90% - 110%												
K	1.37	1.44	105%	90% - 110%												
La	58	54	92%	90% - 110%	44	40	92%	90% - 110%								
Li	37	40	108%	90% - 110%	47	44	93%	90% - 110%								
Mg	0.325	0.334	103%	90% - 110%	1.10	1.12	102%	90% - 110%								
Mn					780	768	98%	90% - 110%								
Mo					14	13	92%	90% - 110%								
Na	5.267	5.82	110%	90% - 110%	1.624	1.63	101%	90% - 110%								
Ni					32	33	104%	90% - 110%								
P					750	750	100%	90% - 110%								
Sc					12	12	98%	90% - 110%								
Sr	1191	1250	105%	90% - 110%	144	144	100%	90% - 110%								
Ti	0.172	0.164	96%	90% - 110%	0.53	0.39	74%	90% - 110%								
V					77	77	100%	90% - 110%								
Y	119	118	99%	90% - 110%												
Zn	93	103	110%	90% - 110%	130	128	99%	90% - 110%								

(201-071) Goldcorp Borden - 4 Acid Digest - ICP-MS Finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Pb	10	9	95%	90% - 110%	31	33	106%	90% - 110%								
Rb	55	50	90%	90% - 110%	143	144	101%	90% - 110%								
U	0.8	0.9	112%	90% - 110%	5.7	4.5	79%	90% - 110%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW07)				CRM #2 (ref.WW07)				CRM #3 (ref.WW03)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	6.56	6.23	95%	90% - 110%	6.56	6.24	95%	90% - 110%	2.01	1.88	93%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00382  
 SAMPLING SITE:

AGAT WORK ORDER: 18B396162  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12020		ICP-MS
Rb	MIN-200-12020		ICP-MS
U	MIN-200-12020		ICP-MS
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00402

AGAT WORK ORDER: 18B400158

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 19, 2018

PAGES (INCLUDING COVER): 11

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B400158

PROJECT: AGAT00402

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 22, 2018      DATE RECEIVED: Oct 22, 2018      DATE REPORTED: Nov 19, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72675 (9643205)		1.13
A72676 (9643206)		1.64
A72677 (9643207)		1.44
A72678 (9643208)		1.44
A72679 (9643209)		2.68
A72680 (9643210)		3.44
A72681 (9643211)		2.75
A72682 (9643212)		3.17
A72683 (9643213)		2.80
A72684 (9643214)		2.03
A72685 (9643215)		1.38
A72686 (9643216)		0.07
A72687 (9643217)		1.00

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B400158

PROJECT: AGAT00402

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 22, 2018		DATE RECEIVED: Oct 22, 2018					DATE REPORTED: Nov 19, 2018					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5	
A72675 (9643205)		<0.5	5.80	<1	180	1.1	<1	3.47	<0.5	24	19.9	112	54.7	4.93	17.0	
A72676 (9643206)		<0.5	8.03	<1	322	1.4	1	3.56	<0.5	36	23.2	146	38.9	5.38	22.0	
A72677 (9643207)		<0.5	7.42	<1	271	1.4	<1	3.69	<0.5	35	18.2	109	36.1	4.49	19.0	
A72678 (9643208)		<0.5	7.39	<1	271	1.4	3	3.61	<0.5	35	17.2	115	34.4	4.49	17.0	
A72679 (9643209)		0.8	7.87	<1	839	2.1	1	2.29	<0.5	42	5.2	40.8	21.4	1.91	16.0	
A72680 (9643210)		<0.5	8.12	1	854	2.2	<1	2.17	<0.5	40	4.9	47.3	7.2	1.97	17.0	
A72681 (9643211)		<0.5	8.11	<1	872	2.1	2	2.07	<0.5	42	4.9	36.6	5.6	1.94	17.0	
A72682 (9643212)		<0.5	7.97	<1	887	2.3	<1	2.03	<0.5	49	4.8	39.8	8.5	1.91	17.0	
A72683 (9643213)		<0.5	7.94	<1	789	2.2	<1	1.90	<0.5	42	4.4	38.9	11.6	1.83	16.0	
A72684 (9643214)		<0.5	7.90	<1	790	2.2	<1	2.17	<0.5	49	5.1	40.8	3.0	1.88	17.0	
A72685 (9643215)		<0.5	7.93	<1	806	2.1	<1	2.07	<0.5	38	5.2	36.8	2.8	1.82	17.0	
A72686 (9643216)		<0.5	7.68	<1	200	2.0	7	6.70	<0.5	19	38.0	184	108	8.06	27.0	
A72687 (9643217)		<0.5	5.62	<1	733	1.7	1	1.61	<0.5	25	4.7	61.8	3.4	1.82	10.0	
Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1	
A72675 (9643205)		<1	0.46	12	15	1.77	1000	6.3	1.91	57.0	443	<20	<50	0.10	<1	
A72676 (9643206)		<1	1.07	17	24	2.17	949	5.3	3.07	83.1	551	<20	<50	0.09	<1	
A72677 (9643207)		<1	1.10	16	27	1.65	866	5.9	2.92	54.0	560	<20	<50	0.19	1	
A72678 (9643208)		<1	1.10	16	28	1.65	863	5.4	2.87	53.3	562	<20	<50	0.19	<1	
A72679 (9643209)		<1	1.77	18	17	0.76	299	5.4	3.49	18.8	499	<20	<50	0.15	<1	
A72680 (9643210)		<1	2.00	18	21	0.79	298	4.8	3.72	19.2	505	<20	<50	0.04	<1	
A72681 (9643211)		<1	2.04	18	23	0.78	286	4.9	3.74	18.8	518	<20	<50	0.02	<1	
A72682 (9643212)		<1	1.91	22	24	0.76	287	5.4	3.77	19.0	508	<20	<50	0.03	<1	
A72683 (9643213)		<1	1.72	18	18	0.75	275	5.1	3.83	18.0	493	<20	<50	0.04	<1	
A72684 (9643214)		<1	1.77	22	18	0.76	300	4.9	3.87	18.7	507	<20	<50	0.01	<1	
A72685 (9643215)		<1	1.77	17	19	0.71	274	4.9	3.99	18.7	436	<20	<50	0.01	<1	
A72686 (9643216)		<1	0.45	9	10	4.38	1370	0.8	2.37	107	837	<20	<50	0.08	3	
A72687 (9643217)		<1	1.49	11	27	0.61	245	8.3	2.70	18.1	270	<20	<50	0.01	<1	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B400158

PROJECT: AGAT00402

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 22, 2018	DATE RECEIVED: Oct 22, 2018	DATE REPORTED: Nov 19, 2018	SAMPLE TYPE: Drill Core												
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72675 (9643205)	19	<10	<5	252	<10	<10	<5	0.37	<5	<50	134	1	14	57.3	
A72676 (9643206)	20	<10	<5	486	<10	<10	<5	0.39	<5	<50	142	2	15	68.9	
A72677 (9643207)	14	<10	<5	635	<10	<10	<5	0.30	<5	<50	103	3	13	58.9	
A72678 (9643208)	14	<10	<5	639	<10	<10	<5	0.31	<5	<50	102	3	13	57.6	
A72679 (9643209)	4	<10	<5	628	<10	<10	<5	0.19	<5	<50	36.7	3	9	65.4	
A72680 (9643210)	4	<10	<5	701	<10	<10	<5	0.19	<5	<50	37.0	1	9	57.9	
A72681 (9643211)	4	<10	<5	696	<10	<10	<5	0.19	<5	<50	36.3	1	9	55.9	
A72682 (9643212)	4	<10	<5	740	<10	<10	<5	0.19	<5	<50	37.4	<1	10	54.3	
A72683 (9643213)	4	<10	<5	702	<10	<10	<5	0.18	<5	<50	34.7	<1	8	51.1	
A72684 (9643214)	4	<10	<5	754	<10	<10	<5	0.18	<5	<50	36.4	<1	9	53.1	
A72685 (9643215)	4	<10	<5	753	<10	<10	<5	0.17	<5	<50	35.3	1	9	49.1	
A72686 (9643216)	33	<10	<5	255	<10	<10	<5	0.84	<5	<50	234	2	21	92.0	
A72687 (9643217)	4	<10	<5	412	<10	<10	<5	0.15	<5	<50	33.5	3	7	38.2	
	Analyte:	Zr													
	Unit:	ppm													
	RDL:	5													
A72675 (9643205)	52														
A72676 (9643206)	76														
A72677 (9643207)	54														
A72678 (9643208)	55														
A72679 (9643209)	90														
A72680 (9643210)	93														
A72681 (9643211)	92														
A72682 (9643212)	93														
A72683 (9643213)	86														
A72684 (9643214)	89														
A72685 (9643215)	89														
A72686 (9643216)	86														
A72687 (9643217)	61														

Comments: RDL - Reported Detection Limit  
9643205-9643217 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B400158

PROJECT: AGAT00402

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 22, 2018      DATE RECEIVED: Oct 22, 2018      DATE REPORTED: Nov 19, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72675 (9643205)			0.028
A72676 (9643206)			0.006
A72677 (9643207)			0.016
A72678 (9643208)			0.013
A72679 (9643209)			0.021
A72680 (9643210)			0.004
A72681 (9643211)			0.003
A72682 (9643212)			0.005
A72683 (9643213)			0.010
A72684 (9643214)			0.002
A72685 (9643215)			0.004
A72686 (9643216)			0.322
A72687 (9643217)			0.011

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B400158

PROJECT: AGAT00402

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 22, 2018

DATE RECEIVED: Oct 22, 2018

DATE REPORTED: Nov 19, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72675 (9643205)		83
A72677 (9643207)		87

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B400158

PROJECT: AGAT00402

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 22, 2018

DATE RECEIVED: Oct 22, 2018

DATE REPORTED: Nov 19, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72675 (9643205)	94

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9643205	< 0.5	< 0.5	0.0%	9643216	< 0.5	< 0.5	0.0%								
Al	9643205	5.80	5.76	0.7%	9643216	7.68	7.66	0.3%								
As	9643205	< 1	< 1	0.0%	9643216	< 1	< 1	0.0%								
Ba	9643205	180	186	3.3%	9643216	200	199	0.5%								
Be	9643205	1.1	1.1	0.0%	9643216	2.0	2.0	0.0%								
Bi	9643205	< 1	3		9643216	7	5									
Ca	9643205	3.47	3.39	2.3%	9643216	6.70	6.65	0.7%								
Cd	9643205	< 0.5	< 0.5	0.0%	9643216	< 0.5	< 0.5	0.0%								
Ce	9643205	24	24	0.0%	9643216	19	19	0.0%								
Co	9643205	19.9	20.9	4.9%	9643216	38.0	37.9	0.3%								
Cr	9643205	112	110	1.8%	9643216	184	192	4.3%								
Cu	9643205	54.7	51.8	5.4%	9643216	108	105	2.8%								
Fe	9643205	4.93	5.00	1.4%	9643216	8.06	8.09	0.4%								
Ga	9643205	17.0	17	0.0%	9643216	27.0	30	10.5%								
In	9643205	< 1	< 1	0.0%	9643216	< 1	< 1	0.0%								
K	9643205	0.46	0.47	2.2%	9643216	0.45	0.45	0.0%								
La	9643205	12	11	8.7%	9643216	9	10	10.5%								
Li	9643205	15	15	0.0%	9643216	10	10	0.0%								
Mg	9643205	1.77	1.79	1.1%	9643216	4.38	4.41	0.7%								
Mn	9643205	1000	1010	1.0%	9643216	1370	1370	0.0%								
Mo	9643205	6.3	7.5	17.4%	9643216	0.8	0.5	46.2%								
Na	9643205	1.91	1.86	2.7%	9643216	2.37	2.36	0.4%								
Ni	9643205	57.0	52.9	7.5%	9643216	107	112	4.6%								
P	9643205	443	442	0.2%	9643216	837	863	3.1%								
Pb	9643205	< 20	< 20	0.0%	9643216	< 20	< 20	0.0%								
Rb	9643205	< 50	< 50	0.0%	9643216	< 50	< 50	0.0%								
S	9643205	0.096	0.095	1.0%	9643216	0.08	0.08	0.0%								
Sb	9643205	< 1	2		9643216	3	1									
Sc	9643205	19	19	0.0%	9643216	33	34	3.0%								
Se	9643205	< 10	< 10	0.0%	9643216	< 10	< 10	0.0%								
Sn	9643205	< 5	< 5	0.0%	9643216	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9643205	252	243	3.6%	9643216	255	252	1.2%												
Ta	9643205	< 10	< 10	0.0%	9643216	< 10	< 10	0.0%												
Te	9643205	< 10	< 10	0.0%	9643216	< 10	< 10	0.0%												
Th	9643205	< 5	< 5	0.0%	9643216	< 5	< 5	0.0%												
Ti	9643205	0.371	0.376	1.3%	9643216	0.84	0.84	0.0%												
Tl	9643205	< 5	< 5	0.0%	9643216	< 5	< 5	0.0%												
U	9643205	< 50	< 50	0.0%	9643216	< 50	< 50	0.0%												
V	9643205	134	138	2.9%	9643216	234	237	1.3%												
W	9643205	1	2		9643216	2	3													
Y	9643205	14	14	0.0%	9643216	21	21	0.0%												
Zn	9643205	57.3	57.8	0.9%	9643216	92.0	89.5	2.8%												
Zr	9643205	52	53	1.9%	9643216	86	86	0.0%												
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																				
		REPLICATE #1																		
Parameter	Sample ID	Original	Replicate	RPD																
Au	9643205	0.028	0.007																	



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)													
	Expect	Actual	Recovery	Limits										
Al	10.95	10.85	99%	90% - 110%										
Ba	340	335	98%	90% - 110%										
Be	2.6	2.7	103%	90% - 110%										
Ca	5.72	5.61	98%	90% - 110%										
Ce	122	119	98%	90% - 110%										
Cu	7	6	88%	90% - 110%										
Fe	4.34	4.12	95%	90% - 110%										
Ga	35	36.5	104%	90% - 110%										
K	1.37	1.42	104%	90% - 110%										
La	58	54	94%	90% - 110%										
Li	37	37	101%	90% - 110%										
Mg	0.325	0.3	92%	90% - 110%										
Na	5.267	5.453	104%	90% - 110%										
Sr	1191	1200	101%	90% - 110%										
Ti	0.172	0.161	94%	90% - 110%										
V	8	6	70%	90% - 110%										
Y	119	118	99%	90% - 110%										
Zn	93	89	95%	90% - 110%										

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)													
	Expect	Actual	Recovery	Limits										
Au	2.01	2.03	101%	90% - 110%										



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00402  
 SAMPLING SITE:

AGAT WORK ORDER: 18B400158  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE





CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00412

AGAT WORK ORDER: 18B402200

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 26, 2018

PAGES (INCLUDING COVER): 21

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 25, 2018      DATE RECEIVED: Oct 25, 2018      DATE REPORTED: Nov 26, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72689 (9654766)		1.05
A72690 (9654767)		1.56
A72691 (9654768)		1.35
A72692 (9654769)		1.37
A72693 (9654770)		1.60
A72694 (9654771)		1.75
A72695 (9654772)		1.51
A72696 (9654773)		1.71
A72697 (9654774)		1.59
A72698 (9654775)		1.59
A72699 (9654776)		1.81
A72700 (9654777)		1.60
A72701 (9654778)		1.66
A72702 (9654779)		1.68
A72703 (9654780)		1.82
A72704 (9654781)		1.58
A72705 (9654782)		1.66
A72706 (9654783)		0.07
A72707 (9654784)		1.51
A72708 (9654785)		0.68
A72709 (9654786)		1.30
A72710 (9654787)		1.55
A72711 (9654788)		1.91
A72712 (9654789)		1.31
A72713 (9654790)		0.68
A72714 (9654791)		1.35
A72715 (9654792)		1.35
A72716 (9654793)		1.56
A72717 (9654794)		1.91
A72718 (9654795)		1.91
A72719 (9654796)		1.33

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Oct 25, 2018      DATE RECEIVED: Oct 25, 2018      DATE REPORTED: Nov 26, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72720 (9654797)		1.24
A72721 (9654798)		1.29
A72722 (9654799)		2.59
A72723 (9654800)		2.57
A72724 (9654801)		1.40
A72725 (9654802)		1.34
A72726 (9654803)		0.07
A72727 (9654804)		1.51
A72728 (9654805)		2.03
A72729 (9654806)		1.42
A72730 (9654807)		1.54
A72731 (9654808)		1.65
A72732 (9654809)		1.52
A72733 (9654810)		1.85
A72734 (9654811)		1.64
A72735 (9654812)		1.61
A72736 (9654813)		1.88
A72737 (9654814)		1.59
A72738 (9654815)		1.59
A72739 (9654816)		1.88
A72740 (9654817)		1.54
A72741 (9654818)		1.40
A72742 (9654819)		1.43
A72743 (9654820)		1.78

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018	DATE RECEIVED: Oct 25, 2018							DATE REPORTED: Nov 26, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72689 (9654766)	0.5	7.94	5	898	1.9	<1	2.93	<0.5	47	10.7	63.1	13.9	2.78	30	
A72690 (9654767)	0.9	8.15	<1	848	1.8	<1	2.83	<0.5	46	10.5	53.4	6.0	2.78	30	
A72691 (9654768)	<0.5	8.11	1	846	1.8	<1	2.78	<0.5	50	10.8	60.8	16.2	2.77	32	
A72692 (9654769)	<0.5	0.10	4	22	<0.5	<1	32.0	<0.5	<1	<0.5	3.4	<0.5	0.14	15	
A72693 (9654770)	<0.5	8.04	2	773	1.9	<1	2.91	<0.5	49	11.8	65.0	10.7	2.86	34	
A72694 (9654771)	<0.5	8.23	1	858	1.8	<1	2.79	<0.5	50	10.8	56.5	9.8	2.87	33	
A72695 (9654772)	<0.5	8.46	<1	812	1.7	3	2.97	<0.5	50	11.9	69.5	9.9	3.10	32	
A72696 (9654773)	<0.5	8.16	<1	817	1.8	<1	2.89	<0.5	51	12.4	66.2	4.1	2.94	35	
A72697 (9654774)	<0.5	8.27	4	735	1.9	2	2.78	<0.5	49	11.0	55.2	14.7	2.86	32	
A72698 (9654775)	<0.5	7.94	4	685	2.0	<1	2.57	<0.5	53	11.7	59.4	14.8	2.78	33	
A72699 (9654776)	<0.5	7.96	1	970	1.9	<1	2.53	<0.5	50	6.5	30.0	62.7	2.19	30	
A72700 (9654777)	<0.5	7.48	2	778	1.8	<1	2.30	<0.5	53	5.0	22.5	8.5	1.84	27	
A72701 (9654778)	<0.5	7.83	9	763	2.0	<1	2.42	<0.5	50	6.2	24.9	9.0	2.04	28	
A72702 (9654779)	<0.5	7.86	2	798	2.2	1	2.30	<0.5	57	5.9	25.1	9.3	2.02	30	
A72703 (9654780)	<0.5	7.93	<1	862	2.0	<1	2.08	<0.5	48	5.5	26.1	13.9	2.00	28	
A72704 (9654781)	<0.5	8.15	2	806	2.0	<1	2.25	<0.5	48	5.5	30.3	5.7	2.03	31	
A72705 (9654782)	<0.5	7.91	<1	863	2.0	<1	2.18	<0.5	54	5.7	31.2	6.3	2.00	29	
A72706 (9654783)	<0.5	7.93	<1	191	0.9	3	6.46	<0.5	18	35.4	192	103	7.90	33	
A72707 (9654784)	<0.5	7.60	<1	930	2.0	<1	2.11	<0.5	45	5.9	48.2	9.1	1.99	30	
A72708 (9654785)	<0.5	7.98	<1	854	1.7	1	2.52	<0.5	42	5.2	40.9	31.0	1.98	29	
A72709 (9654786)	<0.5	7.96	<1	890	1.6	<1	2.18	<0.5	41	5.8	40.0	8.5	2.02	29	
A72710 (9654787)	<0.5	7.98	<1	797	1.6	<1	2.22	<0.5	41	6.4	40.3	3.4	2.00	30	
A72711 (9654788)	<0.5	8.21	4	788	1.6	<1	2.19	<0.5	41	6.2	39.9	3.8	2.10	29	
A72712 (9654789)	<0.5	0.14	1	21	<0.5	<1	31.9	<0.5	<1	<0.5	9.3	<0.5	0.15	15	
A72713 (9654790)	<0.5	7.47	<1	749	1.6	<1	2.12	<0.5	42	6.2	43.7	4.0	1.84	28	
A72714 (9654791)	<0.5	7.77	<1	822	1.7	<1	2.16	<0.5	43	6.4	40.5	4.5	1.96	30	
A72715 (9654792)	<0.5	8.70	<1	790	1.7	<1	2.44	<0.5	43	7.3	41.3	9.8	2.27	32	
A72716 (9654793)	<0.5	8.30	4	891	1.8	2	2.39	<0.5	40	6.8	45.8	2.8	2.14	30	
A72717 (9654794)	<0.5	10.4	2	809	2.1	<1	2.85	<0.5	48	7.3	46.3	4.1	2.56	34	
A72718 (9654795)	<0.5	9.43	<1	747	2.2	<1	2.71	<0.5	46	8.2	44.0	3.6	2.35	34	
A72719 (9654796)	<0.5	6.90	<1	636	1.7	<1	1.78	<0.5	39	5.2	51.6	8.8	1.84	26	
A72720 (9654797)	<0.5	7.94	<1	767	2.0	<1	2.39	<0.5	51	7.5	74.6	14.7	2.28	32	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018	DATE RECEIVED: Oct 25, 2018				DATE REPORTED: Nov 26, 2018				SAMPLE TYPE: Drill Core						
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72721 (9654798)		<0.5	8.04	<1	701	1.5	1	2.87	<0.5	60	11.5	116	1.1	2.97	32
A72722 (9654799)		<0.5	7.98	1	835	1.9	<1	2.19	<0.5	48	5.7	53.9	16.9	2.09	29
A72723 (9654800)		<0.5	7.69	3	883	6.6	<1	2.42	<0.5	51	6.5	59.3	33.5	2.09	30
A72724 (9654801)		<0.5	7.43	3	580	2.0	<1	4.87	<0.5	78	28.7	205	34.5	4.89	38
A72725 (9654802)		<0.5	7.98	2	915	1.9	<1	2.21	<0.5	48	5.8	36.2	46.2	2.07	30
A72726 (9654803)		<0.5	7.71	<1	186	0.7	4	6.24	<0.5	18	37.4	166	101	7.70	28
A72727 (9654804)		<0.5	7.87	<1	856	2.0	1	2.23	<0.5	47	5.6	31.5	6.7	2.02	28
A72728 (9654805)		<0.5	7.78	<1	844	2.0	<1	2.10	<0.5	50	5.8	32.4	5.6	2.01	30
A72729 (9654806)		<0.5	8.31	1	813	1.9	<1	2.10	<0.5	43	6.0	35.8	3.5	2.07	30
A72730 (9654807)		<0.5	8.11	3	872	1.6	<1	1.90	<0.5	42	6.0	35.8	9.4	2.09	28
A72731 (9654808)		<0.5	7.90	<1	908	2.0	<1	1.98	<0.5	43	6.4	36.1	7.6	2.04	29
A72732 (9654809)		<0.5	0.12	2	19	<0.5	<1	31.7	<0.5	<1	<0.5	4.1	<0.5	0.14	14
A72733 (9654810)		<0.5	8.09	2	944	2.2	<1	2.05	<0.5	43	5.9	32.0	10.7	2.03	28
A72734 (9654811)		<0.5	7.90	<1	913	2.0	1	2.84	<0.5	71	10.1	61.0	3.8	2.88	33
A72735 (9654812)		<0.5	8.19	2	971	2.4	<1	2.13	<0.5	49	5.7	30.4	15.4	2.05	31
A72736 (9654813)		<0.5	8.12	1	749	1.9	2	2.47	<0.5	49	5.7	30.7	8.1	2.11	30
A72737 (9654814)		<0.5	7.65	<1	767	2.4	<1	2.20	<0.5	48	6.2	34.0	5.9	1.94	30
A72738 (9654815)		<0.5	7.97	3	785	2.1	<1	2.29	<0.5	48	5.7	34.9	5.5	2.04	30
A72739 (9654816)		<0.5	8.18	<1	784	1.9	<1	2.30	<0.5	50	5.6	32.6	8.1	2.13	29
A72740 (9654817)		<0.5	7.79	2	762	2.0	<1	2.33	<0.5	45	5.3	37.5	9.6	1.98	30
A72741 (9654818)		<0.5	7.64	5	682	2.1	<1	2.33	<0.5	50	6.1	32.8	6.4	1.96	30
A72742 (9654819)		<0.5	7.54	2	850	2.0	<1	2.34	<0.5	51	5.9	33.6	9.5	1.98	29
A72743 (9654820)		<0.5	8.15	2	728	1.8	<1	1.95	<0.5	50	5.7	33.2	20.6	2.11	29

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018	DATE RECEIVED: Oct 25, 2018					DATE REPORTED: Nov 26, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72689 (9654766)	<1	1.64	21	22	1.48	411	4.5	3.69	35.0	541	<20	<50	0.03	2	
A72690 (9654767)	<1	1.90	21	29	1.49	412	3.0	3.97	32.4	604	<20	<50	0.03	1	
A72691 (9654768)	<1	1.83	22	23	1.60	412	3.0	3.75	35.2	618	<20	<50	0.02	1	
A72692 (9654769)	1	0.03	3	<1	2.16	55	1.7	0.05	1.8	72	<20	<50	<0.01	<1	
A72693 (9654770)	<1	1.70	22	20	1.62	428	2.5	3.73	36.7	626	<20	<50	0.01	2	
A72694 (9654771)	<1	1.76	22	19	1.58	418	3.0	3.79	34.5	612	<20	<50	<0.01	1	
A72695 (9654772)	<1	1.71	22	22	1.76	439	2.2	3.80	37.6	616	<20	<50	0.01	<1	
A72696 (9654773)	<1	1.79	23	24	1.66	440	3.0	3.78	36.8	655	<20	<50	0.02	<1	
A72697 (9654774)	<1	1.78	21	28	1.58	428	2.6	3.93	32.6	632	<20	<50	0.04	<1	
A72698 (9654775)	<1	1.72	23	27	1.54	413	3.0	3.64	33.9	640	<20	<50	0.03	1	
A72699 (9654776)	<1	1.87	22	21	0.95	326	4.2	3.88	19.7	540	<20	<50	0.11	<1	
A72700 (9654777)	<1	2.12	23	17	0.80	340	3.4	3.62	16.4	444	<20	<50	0.02	<1	
A72701 (9654778)	<1	2.14	23	16	0.88	310	3.0	3.59	17.7	503	<20	<50	0.03	3	
A72702 (9654779)	<1	2.17	24	22	0.86	325	3.6	3.65	18.2	513	<20	<50	0.02	<1	
A72703 (9654780)	<1	2.11	21	24	0.81	291	3.5	3.80	17.4	478	<20	<50	0.02	<1	
A72704 (9654781)	<1	1.97	21	16	0.87	322	3.4	3.72	17.7	525	<20	<50	0.02	<1	
A72705 (9654782)	<1	2.12	24	23	0.87	310	3.4	3.62	17.8	514	<20	<50	0.01	<1	
A72706 (9654783)	<1	0.47	9	10	4.45	1320	<0.5	2.44	105	838	<20	<50	0.08	<1	
A72707 (9654784)	<1	2.02	20	18	0.85	304	3.3	3.74	17.8	548	<20	<50	0.02	<1	
A72708 (9654785)	<1	1.84	18	17	0.88	329	4.2	3.93	16.8	807	<20	<50	0.02	1	
A72709 (9654786)	<1	1.94	17	18	0.93	285	3.2	3.85	18.3	527	<20	<50	0.01	1	
A72710 (9654787)	<1	1.68	18	21	0.88	281	3.6	4.02	19.4	551	<20	<50	0.01	2	
A72711 (9654788)	<1	1.72	17	19	0.95	299	2.7	4.02	20.3	543	<20	<50	0.02	1	
A72712 (9654789)	1	0.03	3	1	2.48	68	2.0	0.08	1.0	85	<20	<50	<0.01	<1	
A72713 (9654790)	<1	1.68	19	19	0.83	254	3.0	3.63	19.3	477	<20	<50	0.02	<1	
A72714 (9654791)	<1	1.63	18	17	0.89	301	3.6	3.96	19.4	514	<20	<50	0.02	2	
A72715 (9654792)	<1	1.78	18	23	1.00	314	2.2	4.45	21.5	583	<20	<50	0.02	<1	
A72716 (9654793)	<1	1.83	17	23	0.90	303	4.3	4.45	22.4	523	<20	<50	0.03	2	
A72717 (9654794)	<1	1.99	19	27	1.08	365	5.1	5.18	22.3	661	<20	<50	0.03	2	
A72718 (9654795)	<1	1.78	17	25	0.98	332	4.0	5.01	23.0	659	<20	<50	0.03	<1	
A72719 (9654796)	<1	1.29	17	19	0.78	226	5.1	3.46	17.3	474	<20	<50	0.01	<1	
A72720 (9654797)	<1	1.73	22	20	1.08	328	6.0	3.88	27.2	658	<20	<50	<0.01	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018	DATE RECEIVED: Oct 25, 2018					DATE REPORTED: Nov 26, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72721 (9654798)	<1	2.10	28	28	1.95	453	3.1	3.36	51.4	630	<20	<50	<0.01	1	
A72722 (9654799)	<1	1.71	21	17	0.92	309	4.8	3.92	17.7	548	<20	<50	0.01	<1	
A72723 (9654800)	<1	1.69	22	22	0.97	332	4.1	3.94	20.1	578	<20	<50	0.02	<1	
A72724 (9654801)	<1	3.87	36	31	4.32	830	2.6	2.24	112	824	<20	<50	0.05	2	
A72725 (9654802)	<1	1.56	22	16	0.92	317	4.3	4.01	19.1	529	<20	<50	0.02	2	
A72726 (9654803)	<1	0.46	9	10	4.34	1270	<0.5	2.36	105	824	<20	<50	0.08	3	
A72727 (9654804)	<1	1.99	21	19	0.83	324	4.0	3.87	17.2	532	<20	<50	0.01	<1	
A72728 (9654805)	<1	2.08	23	18	0.84	312	4.7	3.87	17.9	536	<20	<50	0.01	<1	
A72729 (9654806)	<1	1.91	20	27	0.88	315	3.8	4.16	16.5	639	<20	<50	0.02	<1	
A72730 (9654807)	<1	1.92	20	20	0.87	303	4.0	4.04	16.1	598	<20	<50	0.02	<1	
A72731 (9654808)	<1	2.00	20	22	0.83	315	4.2	3.82	16.0	666	<20	<50	0.02	<1	
A72732 (9654809)	<1	0.03	3	1	1.87	50	1.7	0.06	0.8	88	<20	<50	<0.01	<1	
A72733 (9654810)	<1	2.06	20	26	0.87	298	2.9	4.00	15.9	576	<20	<50	0.02	<1	
A72734 (9654811)	<1	2.40	31	25	1.71	483	2.7	3.47	43.3	931	<20	<50	<0.01	1	
A72735 (9654812)	<1	1.89	22	21	0.88	311	3.5	4.00	17.6	542	<20	<50	0.01	<1	
A72736 (9654813)	<1	1.67	22	18	0.94	380	3.4	3.94	17.8	527	<20	<50	<0.01	2	
A72737 (9654814)	<1	1.86	22	16	0.81	312	3.3	3.63	17.1	593	<20	<50	0.01	1	
A72738 (9654815)	<1	1.97	21	18	0.85	325	3.5	3.69	17.2	563	<20	<50	0.01	<1	
A72739 (9654816)	<1	2.05	22	21	0.90	333	3.4	3.77	17.2	536	<20	<50	<0.01	<1	
A72740 (9654817)	<1	2.10	20	20	0.84	320	3.9	3.59	17.4	529	<20	<50	0.01	<1	
A72741 (9654818)	<1	2.12	21	18	0.82	309	3.4	3.38	17.7	537	<20	<50	<0.01	2	
A72742 (9654819)	<1	2.07	22	19	0.81	316	3.4	3.48	17.6	503	<20	<50	0.01	<1	
A72743 (9654820)	<1	1.76	23	17	0.90	316	4.2	3.81	17.0	533	<20	<50	0.07	1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018	DATE RECEIVED: Oct 25, 2018					DATE REPORTED: Nov 26, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72689 (9654766)	8	<10	<5	742	<10	<10	<5	0.25	<5	<50	68.5	2	11	64.4	
A72690 (9654767)	8	<10	<5	772	<10	<10	<5	0.22	<5	<50	67.8	<1	10	67.3	
A72691 (9654768)	9	<10	<5	765	<10	<10	<5	0.24	<5	<50	71.8	1	11	73.9	
A72692 (9654769)	<1	<10	<5	72	<10	<10	<5	<0.01	<5	<50	1.4	1	2	2.6	
A72693 (9654770)	9	<10	<5	770	<10	<10	<5	0.27	<5	<50	73.3	<1	12	64.3	
A72694 (9654771)	8	<10	<5	777	<10	<10	<5	0.27	<5	<50	70.3	2	11	63.3	
A72695 (9654772)	9	<10	<5	749	<10	<10	<5	0.27	<5	<50	75.3	<1	12	65.5	
A72696 (9654773)	9	<10	<5	785	<10	<10	<5	0.28	<5	<50	77.1	<1	11	66.8	
A72697 (9654774)	8	<10	<5	897	<10	<10	<5	0.26	<5	<50	71.8	2	10	67.9	
A72698 (9654775)	9	<10	<5	850	<10	<10	<5	0.25	<5	<50	75.2	<1	11	66.4	
A72699 (9654776)	6	<10	<5	690	<10	<10	<5	0.18	<5	<50	46.7	<1	11	66.1	
A72700 (9654777)	5	<10	<5	489	<10	<10	<5	0.12	<5	<50	39.9	1	8	42.7	
A72701 (9654778)	5	<10	<5	538	<10	<10	<5	0.17	<5	<50	41.4	1	9	59.6	
A72702 (9654779)	5	<10	<5	575	<10	<10	<5	0.16	<5	<50	40.8	1	10	60.6	
A72703 (9654780)	5	<10	<5	590	<10	<10	<5	0.16	<5	<50	38.5	2	9	57.2	
A72704 (9654781)	5	<10	<5	646	<10	<10	<5	0.20	<5	<50	42.5	2	9	58.7	
A72705 (9654782)	5	<10	<5	697	<10	<10	<5	0.19	<5	<50	42.5	2	11	57.7	
A72706 (9654783)	32	<10	<5	248	<10	<10	<5	0.91	<5	<50	229	3	21	85.0	
A72707 (9654784)	5	<10	<5	710	<10	<10	<5	0.19	<5	<50	42.5	2	10	57.1	
A72708 (9654785)	5	<10	<5	724	<10	<10	<5	0.21	<5	<50	41.9	1	10	54.4	
A72709 (9654786)	5	<10	<5	715	<10	<10	<5	0.21	<5	<50	46.9	2	7	52.5	
A72710 (9654787)	5	<10	<5	740	<10	<10	<5	0.20	<5	<50	46.6	1	8	52.2	
A72711 (9654788)	5	<10	<5	782	<10	<10	<5	0.22	<5	<50	48.1	1	7	56.5	
A72712 (9654789)	<1	<10	<5	73	<10	<10	<5	<0.01	<5	<50	1.6	<1	2	4.8	
A72713 (9654790)	5	<10	<5	589	<10	<10	<5	0.19	<5	<50	43.5	1	7	49.7	
A72714 (9654791)	5	<10	<5	680	<10	<10	<5	0.21	<5	<50	47.0	2	7	53.8	
A72715 (9654792)	6	<10	<5	847	<10	<10	<5	0.24	<5	<50	52.8	2	8	61.3	
A72716 (9654793)	6	<10	<5	680	<10	<10	<5	0.21	<5	<50	48.6	<1	7	57.2	
A72717 (9654794)	6	<10	<5	843	<10	<10	<5	0.25	<5	<50	52.8	<1	8	63.1	
A72718 (9654795)	6	<10	<5	806	<10	<10	<5	0.23	<5	<50	54.2	2	8	60.4	
A72719 (9654796)	4	<10	<5	509	<10	<10	<5	0.17	<5	<50	37.2	2	9	43.9	
A72720 (9654797)	7	<10	<5	660	<10	<10	<5	0.22	<5	<50	52.3	2	11	49.3	

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## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018

DATE RECEIVED: Oct 25, 2018

DATE REPORTED: Nov 26, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
A72721 (9654798)	9	<10	<5	773	<10	<10	<5	0.30	<5	<50	73.8	2	9	68.5
A72722 (9654799)	5	<10	<5	647	<10	<10	<5	0.21	<5	<50	42.8	2	10	54.2
A72723 (9654800)	7	<10	<5	647	<10	<10	<5	0.19	<5	<50	46.9	2	14	50.4
A72724 (9654801)	23	<10	<5	1790	<10	<10	<5	0.34	<5	<50	152	3	18	77.4
A72725 (9654802)	5	<10	<5	824	<10	<10	<5	0.20	<5	<50	43.4	1	9	54.2
A72726 (9654803)	33	<10	<5	240	<10	<10	<5	0.86	<5	<50	236	2	21	86.9
A72727 (9654804)	5	<10	<5	649	<10	<10	<5	0.20	<5	<50	40.3	2	11	57.4
A72728 (9654805)	5	<10	<5	581	<10	<10	<5	0.19	<5	<50	41.7	1	10	54.9
A72729 (9654806)	5	<10	<5	928	<10	<10	<5	0.20	<5	<50	44.2	2	10	52.8
A72730 (9654807)	5	<10	<5	744	<10	<10	<5	0.21	<5	<50	43.7	2	8	56.5
A72731 (9654808)	5	<10	<5	686	<10	<10	<5	0.20	<5	<50	44.4	<1	12	55.1
A72732 (9654809)	<1	<10	<5	70	<10	<10	<5	<0.01	<5	<50	1.5	1	2	2.3
A72733 (9654810)	5	<10	<5	696	<10	<10	<5	0.19	<5	<50	42.5	2	8	50.4
A72734 (9654811)	9	<10	<5	815	<10	<10	<5	0.29	<5	<50	67.9	1	13	66.9
A72735 (9654812)	5	<10	<5	730	<10	<10	<5	0.20	<5	<50	42.1	2	11	56.9
A72736 (9654813)	5	<10	<5	736	<10	<10	<5	0.21	<5	<50	42.9	2	11	61.8
A72737 (9654814)	5	<10	<5	638	<10	<10	<5	0.19	<5	<50	42.2	<1	11	53.6
A72738 (9654815)	5	<10	<5	647	<10	<10	<5	0.20	<5	<50	42.0	<1	11	59.1
A72739 (9654816)	5	<10	<5	705	<10	<10	<5	0.22	<5	<50	42.1	2	10	64.1
A72740 (9654817)	5	<10	<5	623	<10	<10	<5	0.20	<5	<50	42.2	1	10	58.5
A72741 (9654818)	5	<10	<5	566	<10	<10	<5	0.20	<5	<50	42.6	1	11	56.7
A72742 (9654819)	5	<10	<5	586	<10	<10	<5	0.19	<5	<50	40.3	1	13	58.7
A72743 (9654820)	5	<10	<5	690	<10	<10	<5	0.21	<5	<50	42.0	<1	9	59.2

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018      DATE RECEIVED: Oct 25, 2018      DATE REPORTED: Nov 26, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72689 (9654766)				76
A72690 (9654767)				78
A72691 (9654768)				79
A72692 (9654769)				<5
A72693 (9654770)				82
A72694 (9654771)				78
A72695 (9654772)				81
A72696 (9654773)				78
A72697 (9654774)				83
A72698 (9654775)				89
A72699 (9654776)				93
A72700 (9654777)				90
A72701 (9654778)				92
A72702 (9654779)				97
A72703 (9654780)				93
A72704 (9654781)				93
A72705 (9654782)				95
A72706 (9654783)				87
A72707 (9654784)				93
A72708 (9654785)				84
A72709 (9654786)				89
A72710 (9654787)				88
A72711 (9654788)				91
A72712 (9654789)				<5
A72713 (9654790)				85
A72714 (9654791)				92
A72715 (9654792)				95
A72716 (9654793)				94
A72717 (9654794)				119
A72718 (9654795)				120
A72719 (9654796)				80
A72720 (9654797)				105

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 25, 2018

DATE RECEIVED: Oct 25, 2018

DATE REPORTED: Nov 26, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72721 (9654798)				105
A72722 (9654799)				95
A72723 (9654800)				98
A72724 (9654801)				96
A72725 (9654802)				97
A72726 (9654803)				90
A72727 (9654804)				94
A72728 (9654805)				92
A72729 (9654806)				93
A72730 (9654807)				87
A72731 (9654808)				91
A72732 (9654809)				<5
A72733 (9654810)				94
A72734 (9654811)				104
A72735 (9654812)				96
A72736 (9654813)				92
A72737 (9654814)				100
A72738 (9654815)				99
A72739 (9654816)				96
A72740 (9654817)				93
A72741 (9654818)				95
A72742 (9654819)				89
A72743 (9654820)				93

Comments: RDL - Reported Detection Limit

9654766-9654820 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 25, 2018      DATE RECEIVED: Oct 25, 2018      DATE REPORTED: Nov 26, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Au	Unit: ppm	RDL: 0.001
A72689 (9654766)		0.033	
A72690 (9654767)		0.004	
A72691 (9654768)		0.009	
A72692 (9654769)		0.001	
A72693 (9654770)		0.004	
A72694 (9654771)		0.004	
A72695 (9654772)		0.003	
A72696 (9654773)		0.005	
A72697 (9654774)		0.006	
A72698 (9654775)		0.008	
A72699 (9654776)		0.011	
A72700 (9654777)		0.002	
A72701 (9654778)		0.007	
A72702 (9654779)		0.006	
A72703 (9654780)		0.010	
A72704 (9654781)		0.005	
A72705 (9654782)		0.015	
A72706 (9654783)		0.335	
A72707 (9654784)		0.006	
A72708 (9654785)		0.007	
A72709 (9654786)		0.008	
A72710 (9654787)		0.005	
A72711 (9654788)		0.003	
A72712 (9654789)		<0.001	
A72713 (9654790)		0.003	
A72714 (9654791)		0.004	
A72715 (9654792)		0.003	
A72716 (9654793)		0.007	
A72717 (9654794)		0.002	
A72718 (9654795)		0.005	
A72719 (9654796)		0.042	
A72720 (9654797)		0.007	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

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 CANADA L4Z 1N9  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 25, 2018      DATE RECEIVED: Oct 25, 2018      DATE REPORTED: Nov 26, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72721 (9654798)			0.005
A72722 (9654799)			0.008
A72723 (9654800)			0.018
A72724 (9654801)			0.014
A72725 (9654802)			0.004
A72726 (9654803)			0.323
A72727 (9654804)			0.002
A72728 (9654805)			0.025
A72729 (9654806)			0.002
A72730 (9654807)			0.002
A72731 (9654808)			0.007
A72732 (9654809)			<0.001
A72733 (9654810)			0.002
A72734 (9654811)			0.003
A72735 (9654812)			0.002
A72736 (9654813)			0.006
A72737 (9654814)			0.006
A72738 (9654815)			0.007
A72739 (9654816)			0.003
A72740 (9654817)			0.004
A72741 (9654818)			0.003
A72742 (9654819)			0.003
A72743 (9654820)			0.033

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 25, 2018

DATE RECEIVED: Oct 25, 2018

DATE REPORTED: Nov 26, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72689 (9654766)		81
A72708 (9654785)		84
A72728 (9654805)		78

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B402200

PROJECT: AGAT00412

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 25, 2018

DATE RECEIVED: Oct 25, 2018

DATE REPORTED: Nov 26, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
RDL:	0.01
Sample ID (AGAT ID)	
A72716 (9654793)	97

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Ag	9654766	0.5	< 0.5		9654780	< 0.5	< 0.5	0.0%	9654791	< 0.5	< 0.5	0.0%	9654805	< 0.5	< 0.5	0.0%
Al	9654766	7.94	8.11	2.1%	9654780	7.93	7.97	0.5%	9654791	7.77	7.62	1.9%	9654805	7.78	8.07	3.7%
As	9654766	5	6	18.2%	9654780	< 1	< 1	0.0%	9654791	< 1	< 1	0.0%	9654805	< 1	< 1	0.0%
Ba	9654766	898	919	2.3%	9654780	862	866	0.5%	9654791	822	784	4.7%	9654805	844	823	2.5%
Be	9654766	1.9	1.9	0.0%	9654780	2.0	1.9	5.1%	9654791	1.7	1.7	0.0%	9654805	2.0	2.0	0.0%
Bi	9654766	< 1	2		9654780	< 1	< 1	0.0%	9654791	< 1	< 1	0.0%	9654805	< 1	< 1	0.0%
Ca	9654766	2.93	3.00	2.4%	9654780	2.08	2.08	0.0%	9654791	2.16	2.16	0.0%	9654805	2.10	2.19	4.2%
Cd	9654766	< 0.5	< 0.5	0.0%	9654780	< 0.5	< 0.5	0.0%	9654791	< 0.5	< 0.5	0.0%	9654805	< 0.5	< 0.5	0.0%
Ce	9654766	47	46	2.2%	9654780	48	46	4.3%	9654791	43	41	4.8%	9654805	50	50	0.0%
Co	9654766	10.7	10.4	2.8%	9654780	5.5	5.5	0.0%	9654791	6.38	6.19	3.0%	9654805	5.8	5.4	7.1%
Cr	9654766	63.1	58.0	8.4%	9654780	26.1	27.4	4.9%	9654791	40.5	45.2	11.0%	9654805	32.4	35.7	9.7%
Cu	9654766	13.9	12.6	9.8%	9654780	13.9	14.3	2.8%	9654791	4.53	4.23	6.8%	9654805	5.63	7.16	23.9%
Fe	9654766	2.78	2.82	1.4%	9654780	2.00	1.99	0.5%	9654791	1.96	1.94	1.0%	9654805	2.01	2.08	3.4%
Ga	9654766	30	31	3.3%	9654780	28	30	6.9%	9654791	30	30	0.0%	9654805	30	30	0.0%
In	9654766	< 1	< 1	0.0%	9654780	< 1	< 1	0.0%	9654791	< 1	< 1	0.0%	9654805	< 1	< 1	0.0%
K	9654766	1.64	1.68	2.4%	9654780	2.11	2.12	0.5%	9654791	1.63	1.63	0.0%	9654805	2.08	2.17	4.2%
La	9654766	21	20	4.9%	9654780	21	20	4.9%	9654791	18	18	0.0%	9654805	23	22	4.4%
Li	9654766	22	23	4.4%	9654780	24	24	0.0%	9654791	17	17	0.0%	9654805	18	19	5.4%
Mg	9654766	1.48	1.53	3.3%	9654780	0.81	0.81	0.0%	9654791	0.89	0.89	0.0%	9654805	0.841	0.861	2.4%
Mn	9654766	411	419	1.9%	9654780	291	299	2.7%	9654791	301	297	1.3%	9654805	312	326	4.4%
Mo	9654766	4.47	3.95	12.4%	9654780	3.47	3.66	5.3%	9654791	3.55	3.44	3.1%	9654805	4.70	4.43	5.9%
Na	9654766	3.69	3.80	2.9%	9654780	3.80	3.84	1.0%	9654791	3.96	3.93	0.8%	9654805	3.87	3.78	2.4%
Ni	9654766	35.0	33.7	3.8%	9654780	17.4	19.1	9.3%	9654791	19.4	19.7	1.5%	9654805	17.9	17.7	1.1%
P	9654766	541	529	2.2%	9654780	478	481	0.6%	9654791	514	532	3.4%	9654805	536	545	1.7%
Pb	9654766	< 20	< 20	0.0%	9654780	< 20	< 20	0.0%	9654791	< 20	< 20	0.0%	9654805	< 20	< 20	0.0%
Rb	9654766	< 50	< 50	0.0%	9654780	< 50	< 50	0.0%	9654791	< 50	< 50	0.0%	9654805	< 50	< 50	0.0%
S	9654766	0.03	0.03	0.0%	9654780	0.02	0.02	0.0%	9654791	0.02	0.02	0.0%	9654805	0.01	0.01	0.0%
Sb	9654766	2	< 1		9654780	< 1	2		9654791	2	< 1		9654805	< 1	< 1	0.0%
Sc	9654766	8	8	0.0%	9654780	5	5	0.0%	9654791	5	5	0.0%	9654805	5	5	0.0%
Se	9654766	< 10	< 10	0.0%	9654780	< 10	< 10	0.0%	9654791	< 10	< 10	0.0%	9654805	< 10	< 10	0.0%
Sn	9654766	< 5	< 5	0.0%	9654780	< 5	< 5	0.0%	9654791	< 5	< 5	0.0%	9654805	< 5	< 5	0.0%





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9654766	742	777	4.6%	9654780	590	591	0.2%	9654791	680	677	0.4%	9654805	581	565	2.8%
Ta	9654766	< 10	< 10	0.0%	9654780	< 10	< 10	0.0%	9654791	< 10	< 10	0.0%	9654805	< 10	< 10	0.0%
Te	9654766	< 10	< 10	0.0%	9654780	< 10	< 10	0.0%	9654791	< 10	< 10	0.0%	9654805	< 10	< 10	0.0%
Th	9654766	< 5	< 5	0.0%	9654780	< 5	< 5	0.0%	9654791	< 5	< 5	0.0%	9654805	< 5	< 5	0.0%
Ti	9654766	0.25	0.25	0.0%	9654780	0.16	0.16	0.0%	9654791	0.205	0.202	1.5%	9654805	0.188	0.197	4.7%
Tl	9654766	< 5	< 5	0.0%	9654780	< 5	< 5	0.0%	9654791	< 5	< 5	0.0%	9654805	< 5	< 5	0.0%
U	9654766	< 50	< 50	0.0%	9654780	< 50	< 50	0.0%	9654791	< 50	< 50	0.0%	9654805	< 50	< 50	0.0%
V	9654766	68.5	67.4	1.6%	9654780	38.5	38.7	0.5%	9654791	47.0	47.6	1.3%	9654805	41.7	41.9	0.5%
W	9654766	2	2	0.0%	9654780	2	< 1		9654791	2	1		9654805	1	1	0.0%
Y	9654766	11	11	0.0%	9654780	9	10	10.5%	9654791	7	7	0.0%	9654805	10	10	0.0%
Zn	9654766	64.4	66.7	3.5%	9654780	57.2	57.0	0.4%	9654791	53.8	53.6	0.4%	9654805	54.9	54.6	0.5%
Zr	9654766	76	70	8.2%	9654780	93	96	3.2%	9654791	92	91	1.1%	9654805	92	92	0.0%

REPLICATE #5

Parameter	Sample ID	Original	Replicate	RPD												
Ag	9654816	< 0.5	< 0.5	0.0%												
Al	9654816	8.18	7.72	5.8%												
As	9654816	< 1	< 1	0.0%												
Ba	9654816	784	764	2.6%												
Be	9654816	1.9	1.9	0.0%												
Bi	9654816	< 1	< 1	0.0%												
Ca	9654816	2.30	2.16	6.3%												
Cd	9654816	< 0.5	< 0.5	0.0%												
Ce	9654816	50	51	2.0%												
Co	9654816	5.6	5.6	0.0%												
Cr	9654816	32.6	34.1	4.5%												
Cu	9654816	8.1	6.7	18.9%												
Fe	9654816	2.13	1.97	7.8%												
Ga	9654816	29	28	3.5%												
In	9654816	< 1	< 1	0.0%												
K	9654816	2.05	1.93	6.0%												
La	9654816	22	23	4.4%												
Li	9654816	21	20	4.9%												
Mg	9654816	0.90	0.84	6.9%												
Mn	9654816	333	309	7.5%												



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Mo	9654816	3.4	3.4	0.0%												
Na	9654816	3.77	3.68	2.4%												
Ni	9654816	17.2	16.6	3.6%												
P	9654816	536	535	0.2%												
Pb	9654816	< 20	< 20	0.0%												
Rb	9654816	< 50	< 50	0.0%												
S	9654816	< 0.01	< 0.01	0.0%												
Sb	9654816	< 1	2													
Sc	9654816	5	5	0.0%												
Se	9654816	< 10	< 10	0.0%												
Sn	9654816	< 5	< 5	0.0%												
Sr	9654816	705	688	2.4%												
Ta	9654816	< 10	< 10	0.0%												
Te	9654816	< 10	< 10	0.0%												
Th	9654816	< 5	< 5	0.0%												
Ti	9654816	0.216	0.202	6.7%												
Tl	9654816	< 5	< 5	0.0%												
U	9654816	< 50	< 50	0.0%												
V	9654816	42.1	41.4	1.7%												
W	9654816	2	1													
Y	9654816	10	10	0.0%												
Zn	9654816	64.1	59.6	7.3%												
Zr	9654816	96	92	4.3%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3				REPLICATE #4			
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD
Au	9654766	0.033	0.050		9654780	0.010	0.010	0.0%	9654791	0.004	0.004	0.0%	9654805	0.025	0.004	
Parameter	REPLICATE #5															
	Sample ID	Original	Replicate	RPD												
Au	9654816	0.003	0.003	0.0%												



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.GTS-2a)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	11.19	102%	90% - 110%	8.17	8.42	103%	90% - 110%	6.96	7.09	102%	90% - 110%				
As					26	24	91%	90% - 110%	124	118	95%	90% - 110%				
Ba	340	324	95%	90% - 110%	540	503	93%	90% - 110%	186	180	97%	90% - 110%				
Be	2.6	2.7	104%	90% - 110%	4.0	3.6	91%	90% - 110%								
Ca	5.72	5.54	97%	90% - 110%	0.907	0.881	97%	90% - 110%	4.01	3.85	96%	90% - 110%				
Ce	122	121	99%	90% - 110%	98	94.4	96%	90% - 110%	24	21.8	91%	90% - 110%				
Co									22.1	20.1	91%	90% - 110%				
Cr					60.3	66	110%	90% - 110%								
Cu	7	5	71%	90% - 110%	150	146	98%	90% - 110%	88.6	83.5	94%	90% - 110%				
Fe	4.34	4.13	95%	90% - 110%	3.77	3.56	94%	90% - 110%	7.56	7.17	95%	90% - 110%				
Ga	35	38	108%	90% - 110%												
K	1.37	1.46	106%	90% - 110%					2.021	2.082	103%	90% - 110%				
La	58	52	89%	90% - 110%	44	39	88%	90% - 110%								
Li	37	37	99%	90% - 110%	47	45	96%	90% - 110%								
Mg	0.325	0.308	95%	90% - 110%	1.10	1.09	99%	90% - 110%	2.412	2.408	100%	90% - 110%				
Mn					780	721	92%	90% - 110%	1510	1386	92%	90% - 110%				
Mo					14	12.6	90%	90% - 110%								
Na	5.267	5.478	104%	90% - 110%	1.624	1.715	106%	90% - 110%	0.617	0.659	107%	90% - 110%				
Ni	9	7	75%	90% - 110%	32	35	110%	90% - 110%	77.1	71.1	92%	90% - 110%				
P					750	675	90%	90% - 110%	892	855	96%	90% - 110%				
Pb					31	28	91%	90% - 110%								
S									0.348	0.326	94%	90% - 110%				
Sc					12	11	95%	90% - 110%								
Sr	1191	1150	97%	90% - 110%	144	146	102%	90% - 110%	92.8	88.2	95%	90% - 110%				
Ti	0.172	0.172	100%	90% - 110%	0.53	0.43	81%	90% - 110%								
V	8	6	70%	90% - 110%	77	73	95%	90% - 110%								
W					5	5	95%	90% - 110%								
Y	119	116	98%	90% - 110%												
Zn	93	90	97%	90% - 110%	130	117	90%	90% - 110%	208	201	97%	90% - 110%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW07)				CRM #3 (ref.GTS-2a)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.01	1.95	97%	90% - 110%	6.56	6.24	95%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00412  
 SAMPLING SITE:

AGAT WORK ORDER: 18B402200  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00421

AGAT WORK ORDER: 18B404957

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 21, 2018

PAGES (INCLUDING COVER): 20

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018      DATE RECEIVED: Nov 30, 2018      DATE REPORTED: Nov 21, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72777 (9671825)		2.16
A72778 (9671826)		2.16
A72779 (9671827)		0.88
A72780 (9671828)		1.65
A72781 (9671829)		1.56
A72782 (9671830)		2.06
A72783 (9671831)		1.52
A72784 (9671832)		1.78
A72785 (9671833)		1.54
A72786 (9671834)		0.07
A72787 (9671835)		1.77
A72788 (9671836)		1.40
A72789 (9671837)		1.90
A72790 (9671838)		1.57
A72791 (9671839)		1.72
A72792 (9671840)		0.83
A72793 (9671841)		1.56
A72794 (9671842)		1.69
A72795 (9671843)		1.60
A72796 (9671844)		1.65
A72797 (9671845)		1.39
A72798 (9671846)		1.39
A72799 (9671847)		1.25
A72800 (9671848)		0.72
A72801 (9671849)		1.36
A72802 (9671850)		1.54
A72803 (9671851)		1.62
A72804 (9671852)		1.57
A72805 (9671853)		1.27
A72806 (9671854)		0.07
A72807 (9671855)		1.81

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID)	RDL: 0.01
A72808 (9671856)	2.04

Comments: RDL - Reported Detection Limit

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Nov 30, 2018					DATE REPORTED: Nov 21, 2018					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A72777 (9671825)		<0.5	7.16	2	720	1.8	3	3.12	<0.5	51	20.0	105	32.0	3.60	28
A72778 (9671826)		<0.5	7.18	<1	717	1.7	2	3.00	<0.5	50	21.7	111	30.8	3.70	29
A72779 (9671827)		<0.5	2.54	1	1500	6.7	12	7.23	<0.5	252	50.9	619	49.6	7.58	37
A72780 (9671828)		<0.5	7.25	<1	880	1.7	2	3.70	<0.5	53	20.8	105	40.4	3.87	32
A72781 (9671829)		<0.5	7.39	<1	746	1.7	<1	3.17	<0.5	52	21.6	107	26.4	3.96	31
A72782 (9671830)		<0.5	7.26	2	748	1.9	1	3.15	<0.5	53	22.9	114	29.7	3.98	33
A72783 (9671831)		<0.5	7.40	2	634	1.9	<1	2.99	<0.5	54	20.7	92.0	23.3	3.80	30
A72784 (9671832)		<0.5	7.42	<1	880	2.7	<1	3.30	<0.5	61	27.8	135	63.2	4.27	34
A72785 (9671833)		<0.5	8.00	2	1140	2.4	<1	3.65	<0.5	110	18.0	72.4	37.0	4.23	30
A72786 (9671834)		<0.5	7.50	<1	208	2.3	9	6.45	<0.5	18	46.7	178	106	7.87	38
A72787 (9671835)		<0.5	7.50	<1	1080	2.4	2	3.39	<0.5	71	22.6	115	30.8	4.18	32
A72788 (9671836)		<0.5	7.35	<1	853	1.9	2	3.32	<0.5	58	20.9	107	31.9	4.01	32
A72789 (9671837)		<0.5	7.68	1	765	1.8	1	3.15	<0.5	57	20.5	99.5	29.3	4.01	33
A72790 (9671838)		<0.5	7.60	1	710	1.7	1	2.76	<0.5	48	17.4	80.5	33.0	3.71	29
A72791 (9671839)		<0.5	7.75	3	711	1.8	3	2.72	<0.5	52	17.0	68.0	25.9	3.48	29
A72792 (9671840)		<0.5	0.17	1	22	<0.5	2	31.2	<0.5	<1	0.9	5.2	<0.5	0.19	14
A72793 (9671841)		<0.5	7.55	<1	608	1.7	2	2.54	<0.5	49	18.8	74.2	29.2	3.53	29
A72794 (9671842)		<0.5	7.75	<1	534	1.5	<1	2.79	<0.5	49	17.8	80.8	23.6	3.48	30
A72795 (9671843)		<0.5	7.57	<1	544	2.0	3	2.87	<0.5	54	21.1	103	34.8	4.01	32
A72796 (9671844)		<0.5	7.83	2	586	1.8	3	2.91	<0.5	54	19.5	98.4	39.7	3.92	30
A72797 (9671845)		<0.5	7.62	3	520	1.8	3	2.62	<0.5	51	20.3	94.3	54.9	3.87	30
A72798 (9671846)		<0.5	7.55	<1	511	1.9	<1	2.55	<0.5	51	20.3	98.3	52.9	3.79	32
A72799 (9671847)		<0.5	7.53	<1	519	2.0	<1	2.81	<0.5	51	16.8	79.8	24.6	3.28	31
A72800 (9671848)		<0.5	7.99	2	868	2.6	4	4.32	<0.5	71	29.3	291	25.9	5.20	36
A72801 (9671849)		<0.5	7.76	<1	673	2.3	4	2.85	<0.5	53	19.4	98.2	25.4	3.63	30
A72802 (9671850)		<0.5	7.81	4	678	1.8	2	2.84	<0.5	53	18.2	95.9	21.8	3.47	31
A72803 (9671851)		<0.5	7.56	<1	728	1.9	2	2.81	<0.5	53	16.2	77.0	33.5	3.27	31
A72804 (9671852)		<0.5	7.62	1	767	2.1	3	2.77	<0.5	55	20.3	99.5	36.7	3.79	34
A72805 (9671853)		<0.5	7.59	<1	1150	1.9	2	3.42	<0.5	56	17.5	100	24.4	3.64	29
A72806 (9671854)		<0.5	8.02	<1	223	2.6	10	6.80	<0.5	19	48.2	191	111	8.32	42
A72807 (9671855)		<0.5	7.85	<1	933	2.2	2	3.14	<0.5	56	19.2	123	28.1	4.02	34
A72808 (9671856)		<0.5	8.06	1	1060	2.1	<1	2.83	<0.5	55	20.1	127	41.0	4.37	31

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Nov 30, 2018					DATE REPORTED: Nov 21, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72777 (9671825)	<1	1.96	24	13	1.58	584	5.3	2.20	48.3	692	<20	<50	0.07	<1	
A72778 (9671826)	<1	2.03	23	14	1.64	567	5.1	2.14	50.4	683	<20	<50	0.06	<1	
A72779 (9671827)	<1	1.84	122	66	9.99	1600	2.2	0.63	438	3330	<20	<50	0.10	<1	
A72780 (9671828)	<1	2.08	25	16	1.74	638	3.6	2.41	52.6	702	<20	<50	0.08	<1	
A72781 (9671829)	<1	1.83	24	13	1.90	660	4.0	2.67	50.8	700	<20	<50	0.06	2	
A72782 (9671830)	<1	1.67	25	15	1.90	692	5.2	2.75	51.7	713	<20	<50	0.06	1	
A72783 (9671831)	<1	1.70	26	15	1.69	672	4.5	3.02	49.1	699	<20	<50	0.04	1	
A72784 (9671832)	<1	1.85	29	18	1.97	745	4.3	2.85	63.9	846	<20	<50	0.11	3	
A72785 (9671833)	<1	2.02	51	14	1.82	760	4.4	3.00	36.5	1240	<20	<50	0.07	2	
A72786 (9671834)	<1	0.45	9	10	4.31	1390	0.5	2.35	113	916	<20	<50	0.08	<1	
A72787 (9671835)	<1	2.01	33	16	1.91	725	4.6	2.72	50.9	981	<20	<50	0.07	<1	
A72788 (9671836)	<1	1.73	26	16	1.83	622	3.8	2.74	48.8	711	<20	<50	0.08	1	
A72789 (9671837)	<1	1.83	26	17	1.83	646	4.9	2.84	47.2	711	<20	<50	0.07	<1	
A72790 (9671838)	<1	1.83	22	14	1.56	596	4.8	2.88	41.4	596	<20	<50	0.08	<1	
A72791 (9671839)	<1	1.77	23	13	1.59	526	3.8	3.04	41.5	584	<20	<50	0.07	<1	
A72792 (9671840)	<1	0.04	3	<1	1.80	68	2.0	0.08	1.5	85	<20	<50	<0.01	<1	
A72793 (9671841)	<1	1.70	24	10	1.52	498	4.5	2.91	43.4	634	<20	<50	0.07	<1	
A72794 (9671842)	<1	1.66	23	8	1.53	580	3.9	3.09	41.9	611	<20	<50	0.06	<1	
A72795 (9671843)	<1	1.85	25	15	1.71	636	4.1	2.79	50.2	637	<20	<50	0.07	<1	
A72796 (9671844)	<1	2.06	25	12	1.70	614	4.8	2.74	46.1	566	<20	<50	0.11	<1	
A72797 (9671845)	<1	1.91	24	10	1.64	572	5.2	2.46	47.8	663	<20	<50	0.17	<1	
A72798 (9671846)	<1	1.91	24	10	1.63	562	4.7	2.41	47.6	652	<20	<50	0.17	<1	
A72799 (9671847)	<1	2.11	24	11	1.58	527	4.0	2.71	45.2	613	<20	<50	0.06	<1	
A72800 (9671848)	<1	2.21	34	18	2.87	897	3.6	2.23	84.6	1210	<20	<50	0.06	4	
A72801 (9671849)	<1	2.06	25	19	1.75	554	4.0	2.52	49.4	652	<20	<50	0.06	2	
A72802 (9671850)	<1	2.16	24	14	1.71	579	4.4	2.56	46.7	644	<20	<50	0.10	1	
A72803 (9671851)	<1	1.73	24	16	1.73	653	3.9	3.48	42.6	652	<20	<50	0.10	2	
A72804 (9671852)	<1	1.90	25	21	1.79	639	3.4	2.97	47.8	719	<20	<50	0.10	1	
A72805 (9671853)	<1	2.04	25	18	1.75	657	8.3	2.56	71.0	712	<20	<50	0.07	<1	
A72806 (9671854)	<1	0.48	10	11	4.62	1480	<0.5	2.46	119	944	<20	<50	0.09	3	
A72807 (9671855)	<1	2.29	27	17	1.81	627	13.1	2.51	87.5	688	<20	<50	0.06	1	
A72808 (9671856)	<1	2.39	25	18	2.01	614	8.7	2.38	80.2	711	<20	<50	0.10	<1	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

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DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Nov 30, 2018					DATE REPORTED: Nov 21, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72777 (9671825)	15	<10	<5	611	<10	<10	<5	0.31	<5	<50	106	<1	10	73.4	
A72778 (9671826)	15	<10	<5	589	<10	<10	<5	0.32	<5	<50	110	<1	10	74.7	
A72779 (9671827)	18	<10	<5	1380	<10	<10	<5	1.40	<5	<50	150	2	26	103	
A72780 (9671828)	15	<10	<5	874	<10	<10	<5	0.33	<5	<50	111	1	10	75.4	
A72781 (9671829)	16	<10	<5	730	<10	<10	<5	0.31	<5	<50	117	1	10	68.7	
A72782 (9671830)	17	<10	<5	789	<10	<10	<5	0.31	<5	<50	120	1	11	69.8	
A72783 (9671831)	14	<10	<5	677	<10	<10	<5	0.28	<5	<50	105	2	10	57.8	
A72784 (9671832)	18	<10	<5	1060	<10	<10	<5	0.35	<5	<50	139	2	13	76.2	
A72785 (9671833)	13	<10	<5	1340	<10	<10	<5	0.37	<5	<50	108	2	20	80.4	
A72786 (9671834)	36	<10	<5	252	<10	<10	<5	0.88	<5	<50	248	1	22	90.7	
A72787 (9671835)	16	<10	<5	1080	<10	<10	<5	0.36	<5	<50	132	1	14	79.8	
A72788 (9671836)	15	<10	<5	975	<10	<10	<5	0.33	<5	<50	121	<1	11	75.8	
A72789 (9671837)	15	<10	<5	918	<10	<10	<5	0.32	<5	<50	119	<1	10	75.6	
A72790 (9671838)	14	<10	<5	735	<10	<10	<5	0.30	<5	<50	105	<1	9	70.4	
A72791 (9671839)	13	<10	<5	723	<10	<10	<5	0.25	<5	<50	95.4	<1	8	58.9	
A72792 (9671840)	<1	<10	<5	77	<10	<10	<5	0.01	<5	<50	2.2	<1	2	2.8	
A72793 (9671841)	14	<10	<5	584	<10	<10	<5	0.28	<5	<50	104	1	9	62.5	
A72794 (9671842)	13	<10	<5	431	<10	<10	<5	0.26	<5	<50	99.9	2	9	52.8	
A72795 (9671843)	15	<10	<5	415	<10	<10	<5	0.31	<5	<50	116	2	10	72.6	
A72796 (9671844)	14	<10	<5	460	<10	<10	<5	0.32	<5	<50	109	1	10	73.8	
A72797 (9671845)	14	<10	<5	398	<10	<10	<5	0.32	<5	<50	112	3	10	65.7	
A72798 (9671846)	15	<10	<5	406	<10	<10	<5	0.32	<5	<50	114	1	10	67.6	
A72799 (9671847)	13	<10	<5	428	<10	<10	<5	0.25	<5	<50	95.2	2	10	47.7	
A72800 (9671848)	23	<10	<5	671	<10	<10	<5	0.38	<5	<50	150	1	17	84.1	
A72801 (9671849)	13	<10	<5	567	<10	<10	<5	0.31	<5	<50	104	1	10	66.2	
A72802 (9671850)	13	<10	<5	485	<10	<10	<5	0.28	<5	<50	99.5	2	9	56.1	
A72803 (9671851)	12	<10	<5	367	<10	<10	<5	0.27	<5	<50	90.3	3	12	46.6	
A72804 (9671852)	15	<10	<5	507	<10	<10	<5	0.32	<5	<50	112	1	12	60.1	
A72805 (9671853)	13	<10	<5	595	<10	<10	<5	0.30	<5	<50	102	1	10	60.8	
A72806 (9671854)	38	<10	<5	266	<10	<10	<5	0.93	<5	<50	263	3	24	94.6	
A72807 (9671855)	14	<10	<5	616	<10	<10	<5	0.32	<5	<50	111	<1	12	67.4	
A72808 (9671856)	14	<10	<5	558	<10	<10	<5	0.35	<5	<50	120	<1	9	73.4	

Certified By:



**AGAT** Laboratories

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PROJECT: AGAT00421

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

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SAMPLE TYPE: Drill Core

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(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018      DATE RECEIVED: Nov 30, 2018      DATE REPORTED: Nov 21, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72777 (9671825)				86
A72778 (9671826)				87
A72779 (9671827)				264
A72780 (9671828)				90
A72781 (9671829)				92
A72782 (9671830)				88
A72783 (9671831)				88
A72784 (9671832)				96
A72785 (9671833)				154
A72786 (9671834)				84
A72787 (9671835)				99
A72788 (9671836)				89
A72789 (9671837)				85
A72790 (9671838)				86
A72791 (9671839)				81
A72792 (9671840)				<5
A72793 (9671841)				88
A72794 (9671842)				84
A72795 (9671843)				86
A72796 (9671844)				83
A72797 (9671845)				79
A72798 (9671846)				81
A72799 (9671847)				87
A72800 (9671848)				99
A72801 (9671849)				93
A72802 (9671850)				85
A72803 (9671851)				85
A72804 (9671852)				91
A72805 (9671853)				86
A72806 (9671854)				88
A72807 (9671855)				91
A72808 (9671856)				89

Certified By:





**AGAT** Laboratories

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

9671825-9671856 As, Sb values may be low due to digestion losses.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 01, 2018      DATE RECEIVED: Nov 30, 2018      DATE REPORTED: Nov 21, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72777 (9671825)			0.032
A72778 (9671826)			0.004
A72779 (9671827)			0.002
A72780 (9671828)			0.004
A72781 (9671829)			0.073
A72782 (9671830)			0.004
A72783 (9671831)			0.004
A72784 (9671832)			0.007
A72785 (9671833)			0.004
A72786 (9671834)			0.331
A72787 (9671835)			0.003
A72788 (9671836)			0.003
A72789 (9671837)			0.002
A72790 (9671838)			0.002
A72791 (9671839)			0.004
A72792 (9671840)			0.001
A72793 (9671841)			0.003
A72794 (9671842)			0.003
A72795 (9671843)			0.003
A72796 (9671844)			0.004
A72797 (9671845)			0.014
A72798 (9671846)			0.008
A72799 (9671847)			0.004
A72800 (9671848)			0.004
A72801 (9671849)			0.003
A72802 (9671850)			0.003
A72803 (9671851)			0.003
A72804 (9671852)			0.004
A72805 (9671853)			0.003
A72806 (9671854)			0.335
A72807 (9671855)			0.030
A72808 (9671856)			0.004

Certified By:





**AGAT** Laboratories

# Certificate of Analysis

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

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CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72779 (9671827)		88
A72794 (9671842)		77
A72795 (9671843)		76
A72797 (9671845)		86

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Nov 30, 2018

DATE REPORTED: Nov 21, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72777 (9671825)		93
A72805 (9671853)		94

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9671825	< 0.5	< 0.5	0.0%	9671839	< 0.5	< 0.5	0.0%	9671850	< 0.5	< 0.5	0.0%				
Al	9671825	7.16	7.35	2.6%	9671839	7.75	7.74	0.1%	9671850	7.81	7.64	2.2%				
As	9671825	2	< 1		9671839	3	2		9671850	4	< 1					
Ba	9671825	720	727	1.0%	9671839	711	727	2.2%	9671850	678	661	2.5%				
Be	9671825	1.77	1.73	2.3%	9671839	1.79	1.88	4.9%	9671850	1.8	1.8	0.0%				
Bi	9671825	3	3	0.0%	9671839	3	< 1		9671850	2	2	0.0%				
Ca	9671825	3.12	3.02	3.3%	9671839	2.72	2.78	2.2%	9671850	2.84	2.80	1.4%				
Cd	9671825	< 0.5	< 0.5	0.0%	9671839	< 0.5	< 0.5	0.0%	9671850	< 0.5	< 0.5	0.0%				
Ce	9671825	51	49	4.0%	9671839	52	55	5.6%	9671850	53	53	0.0%				
Co	9671825	20.0	20.9	4.4%	9671839	17.0	17.6	3.5%	9671850	18.2	18.2	0.0%				
Cr	9671825	105	118	11.7%	9671839	68.0	73.7	8.0%	9671850	95.9	102	6.2%				
Cu	9671825	32.0	30.7	4.1%	9671839	25.9	26.5	2.3%	9671850	21.8	21.3	2.3%				
Fe	9671825	3.60	3.78	4.9%	9671839	3.48	3.48	0.0%	9671850	3.47	3.38	2.6%				
Ga	9671825	28	30	6.9%	9671839	29	32	9.8%	9671850	31	30	3.3%				
In	9671825	< 1	< 1	0.0%	9671839	< 1	< 1	0.0%	9671850	< 1	< 1	0.0%				
K	9671825	1.96	2.10	6.9%	9671839	1.77	1.76	0.6%	9671850	2.16	2.08	3.8%				
La	9671825	24	23	4.3%	9671839	23	24	4.3%	9671850	24	25	4.1%				
Li	9671825	13	14	7.4%	9671839	13	13	0.0%	9671850	14	13	7.4%				
Mg	9671825	1.58	1.68	6.1%	9671839	1.59	1.59	0.0%	9671850	1.71	1.68	1.8%				
Mn	9671825	584	580	0.7%	9671839	526	528	0.4%	9671850	579	568	1.9%				
Mo	9671825	5.3	5.1	3.8%	9671839	3.75	3.72	0.8%	9671850	4.4	4.3	2.3%				
Na	9671825	2.20	2.17	1.4%	9671839	3.04	3.09	1.6%	9671850	2.56	2.54	0.8%				
Ni	9671825	48.3	51.3	6.0%	9671839	41.5	41.6	0.2%	9671850	46.7	48.8	4.4%				
P	9671825	692	686	0.9%	9671839	584	605	3.5%	9671850	644	654	1.5%				
Pb	9671825	< 20	< 20	0.0%	9671839	< 20	< 20	0.0%	9671850	< 20	< 20	0.0%				
Rb	9671825	< 50	< 50	0.0%	9671839	< 50	< 50	0.0%	9671850	< 50	< 50	0.0%				
S	9671825	0.07	0.06	15.4%	9671839	0.069	0.065	6.0%	9671850	0.095	0.089	6.5%				
Sb	9671825	< 1	< 1	0.0%	9671839	< 1	< 1	0.0%	9671850	1	3					
Sc	9671825	15	15	0.0%	9671839	13	13	0.0%	9671850	13	14	7.4%				
Se	9671825	< 10	< 10	0.0%	9671839	< 10	< 10	0.0%	9671850	< 10	< 10	0.0%				
Sn	9671825	< 5	< 5	0.0%	9671839	< 5	< 5	0.0%	9671850	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9671825	611	598	2.2%	9671839	723	719	0.6%	9671850	485	485	0.0%				
Ta	9671825	< 10	< 10	0.0%	9671839	< 10	< 10	0.0%	9671850	< 10	< 10	0.0%				
Te	9671825	< 10	< 10	0.0%	9671839	< 10	< 10	0.0%	9671850	< 10	< 10	0.0%				
Th	9671825	< 5	< 5	0.0%	9671839	< 5	< 5	0.0%	9671850	< 5	< 5	0.0%				
Ti	9671825	0.31	0.33	6.3%	9671839	0.25	0.25	0.0%	9671850	0.279	0.272	2.5%				
Tl	9671825	< 5	< 5	0.0%	9671839	< 5	< 5	0.0%	9671850	< 5	< 5	0.0%				
U	9671825	< 50	< 50	0.0%	9671839	< 50	< 50	0.0%	9671850	< 50	< 50	0.0%				
V	9671825	106	108	1.9%	9671839	95.4	97.0	1.7%	9671850	99.5	102	2.5%				
W	9671825	< 1	< 1	0.0%	9671839	< 1	< 1	0.0%	9671850	2	1					
Y	9671825	10	10	0.0%	9671839	8	9	11.8%	9671850	9	10	10.5%				
Zn	9671825	73.4	76.7	4.4%	9671839	58.9	58.8	0.2%	9671850	56.1	55.3	1.4%				
Zr	9671825	86	87	1.2%	9671839	81	81	0.0%	9671850	85	86	1.2%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9671825	0.032	0.004		9671839	0.004	0.002		9671850	0.003	0.003	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	11.58	106%	90% - 110%	8.17	8.01	98%	90% - 110%							
As					26	24	91%	90% - 110%							
Ba	340	353	104%	90% - 110%	540	537	99%	90% - 110%							
Be	2.6	2.77	107%	90% - 110%	4.0	4.37	109%	90% - 110%							
Ca	5.72	5.6	98%	90% - 110%	0.907	0.872	96%	90% - 110%							
Ce	122	119	97%	90% - 110%	98	94	96%	90% - 110%							
Cr					60.3	55.8	93%	90% - 110%							
Cu	7	6	81%	90% - 110%	150	153	102%	90% - 110%							
Fe	4.34	4.14	95%	90% - 110%	3.77	3.63	96%	90% - 110%							
Ga	35	37	107%	90% - 110%											
K	1.37	1.48	108%	90% - 110%											
La	58	53	92%	90% - 110%	44	40.4	92%	90% - 110%							
Li	37	40	109%	90% - 110%	47	47	101%	90% - 110%							
Mg	0.325	0.318	98%	90% - 110%	1.10	1.06	96%	90% - 110%							
Mn					780	753	97%	90% - 110%							
Mo					14	12	88%	90% - 110%							
Na	5.267	5.482	104%	90% - 110%	1.624	1.663	102%	90% - 110%							
Ni					32	33	103%	90% - 110%							
P					750	725	97%	90% - 110%							
Pb					31	33	106%	90% - 110%							
Sc	1.1	0.8	74%	90% - 110%	12	13	105%	90% - 110%							
Sr	1191	1214	102%	90% - 110%	144	150	104%	90% - 110%							
Ta					1.9	1.7	88%	90% - 110%							
Ti	0.172	0.173	100%	90% - 110%	0.53	0.45	85%	90% - 110%							
V	8	6	70%	90% - 110%	77	80	104%	90% - 110%							
W					5	5	98%	90% - 110%							
Y	119	123	103%	90% - 110%											
Zn	93	95	102%	90% - 110%	130	129	99%	90% - 110%							

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.Till-2)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							



**AGAT** Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B404957

PROJECT: AGAT00421

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Au	2.01	2.1	104%	90% - 110%													
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## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00421  
 SAMPLING SITE:

AGAT WORK ORDER: 18B404957  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00422

AGAT WORK ORDER: 18B404997

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Dec 05, 2018

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018      DATE RECEIVED: Oct 30, 2018      DATE REPORTED: Dec 05, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A72744 (9672033)		1.00
A72745 (9672034)		1.35
A72746 (9672035)		0.07
A72747 (9672036)		1.39
A72748 (9672037)		0.89
A72749 (9672038)		1.64
A72750 (9672039)		1.18
A72751 (9672040)		1.68
A72752 (9672041)		1.03
A72753 (9672042)		1.74
A72754 (9672043)		1.66
A72755 (9672044)		1.89
A72756 (9672045)		1.63
A72757 (9672046)		2.30
A72758 (9672047)		2.30
A72759 (9672048)		1.80
A72760 (9672049)		1.88
A72761 (9672050)		1.80
A72762 (9672051)		1.69
A72763 (9672052)		1.75
A72764 (9672053)		2.18
A72765 (9672054)		1.93
A72766 (9672055)		0.07
A72767 (9672056)		2.04
A72768 (9672057)		1.49
A72769 (9672058)		1.82
A72770 (9672059)		1.64
A72771 (9672060)		1.94
A72772 (9672061)		1.01
A72773 (9672062)		1.70
A72774 (9672063)		1.95

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## (200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72775 (9672064)		1.48
A72776 (9672065)		1.70

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018							DATE REPORTED: Dec 05, 2018					SAMPLE TYPE: Drill Core		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72744 (9672033)	<0.5	7.62	3	845	1.9	<1	4.03	<0.5	52	23.2	195	39.2	4.57	23.0	
A72745 (9672034)	<0.5	6.61	4	800	1.6	<1	3.86	<0.5	56	28.9	297	28.5	5.10	25.0	
A72746 (9672035)	<0.5	7.70	<1	189	1.8	5	6.30	<0.5	18	37.7	179	104	7.71	32.0	
A72747 (9672036)	<0.5	7.44	<1	773	1.6	<1	3.18	<0.5	60	24.0	205	31.0	4.65	27.0	
A72748 (9672037)	<0.5	6.57	2	769	1.4	<1	3.46	<0.5	53	24.6	256	23.5	4.34	24.0	
A72749 (9672038)	<0.5	6.28	<1	969	1.3	<1	5.04	<0.5	51	28.2	361	23.3	4.78	23.0	
A72750 (9672039)	<0.5	6.23	<1	726	3.5	<1	4.77	<0.5	54	33.5	396	41.3	5.18	27.0	
A72751 (9672040)	<0.5	6.10	1	601	1.5	<1	5.08	<0.5	50	33.6	398	35.8	5.40	24.0	
A72752 (9672041)	<0.5	0.11	1	18	<0.5	<1	29.9	<0.5	<1	0.8	5.4	<0.5	0.19	7.00	
A72753 (9672042)	<0.5	7.42	4	1050	1.4	1	4.03	<0.5	60	32.4	396	31.1	5.67	27.0	
A72754 (9672043)	<0.5	6.66	2	784	1.4	<1	3.88	<0.5	54	29.5	320	27.2	4.88	25.0	
A72755 (9672044)	<0.5	6.66	<1	1050	1.3	<1	3.77	<0.5	52	26.5	279	55.2	4.76	25.0	
A72756 (9672045)	<0.5	6.81	2	985	1.7	<1	3.22	<0.5	60	26.9	269	35.8	4.70	26.0	
A72757 (9672046)	<0.5	6.56	2	886	1.5	<1	3.50	<0.5	54	30.2	294	35.7	5.03	24.0	
A72758 (9672047)	<0.5	6.71	<1	913	1.5	<1	3.60	<0.5	55	30.2	296	34.6	5.13	28.0	
A72759 (9672048)	<0.5	6.37	1	1060	1.6	<1	4.45	<0.5	53	30.8	305	41.6	5.25	26.0	
A72760 (9672049)	<0.5	6.94	1	1000	1.8	<1	3.19	<0.5	56	25.5	233	36.8	4.53	28.0	
A72761 (9672050)	<0.5	6.95	<1	960	1.6	<1	4.19	<0.5	57	28.8	274	35.0	5.02	29.0	
A72762 (9672051)	<0.5	7.07	3	824	1.4	<1	4.17	<0.5	53	28.3	224	39.1	4.97	25.0	
A72763 (9672052)	<0.5	6.49	1	547	1.3	<1	5.70	<0.5	49	30.6	259	61.0	5.35	26.0	
A72764 (9672053)	<0.5	6.75	<1	666	1.3	<1	5.40	<0.5	51	29.1	253	31.4	5.56	24.0	
A72765 (9672054)	<0.5	6.55	<1	718	1.3	<1	4.99	<0.5	51	25.0	204	25.2	4.69	23.0	
A72766 (9672055)	<0.5	7.68	<1	196	1.4	7	6.50	<0.5	18	36.0	174	105	7.67	31.0	
A72767 (9672056)	<0.5	5.93	<1	754	1.7	<1	6.18	<0.5	47	29.8	231	40.6	4.88	27.0	
A72768 (9672057)	<0.5	7.07	<1	845	3.0	<1	5.30	<0.5	53	31.0	235	108	5.36	27.0	
A72769 (9672058)	<0.5	7.13	3	748	2.2	<1	4.30	<0.5	54	26.6	209	43.0	5.01	28.0	
A72770 (9672059)	<0.5	7.25	<1	880	1.3	3	4.58	<0.5	53	25.8	227	42.1	4.97	24.0	
A72771 (9672060)	<0.5	7.63	<1	943	1.5	<1	4.02	<0.5	57	28.4	280	43.7	5.24	29.0	
A72772 (9672061)	<0.5	0.15	1	24	<0.5	<1	31.1	<0.5	<1	0.7	5.5	<0.5	0.21	5.00	
A72773 (9672062)	<0.5	7.28	3	926	1.5	2	3.96	<0.5	54	25.0	247	39.7	4.94	26.0	
A72774 (9672063)	<0.5	6.83	2	750	1.8	<1	4.58	<0.5	58	30.1	268	53.4	5.09	27.0	
A72775 (9672064)	<0.5	6.70	<1	693	1.6	<1	4.29	<0.5	56	31.4	263	27.2	5.42	27.0	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Dec 05, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
A72776 (9672065)	<0.5	7.15	<1	838	1.5	<1	3.43	<0.5	54	27.0	183	27.3	5.06	27.0	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1
A72744 (9672033)		<1	1.91	23	27	3.67	803	4.8	3.46	66.6	1080	<20	<50	0.03	1
A72745 (9672034)		<1	1.85	25	22	4.73	859	3.8	3.00	91.8	1100	<20	<50	0.02	<1
A72746 (9672035)		<1	0.45	9	10	4.36	1290	<0.5	2.40	105	860	<20	<50	0.09	<1
A72747 (9672036)		<1	2.09	27	24	3.74	740	3.8	3.38	74.7	1140	<20	<50	0.04	2
A72748 (9672037)		<1	2.01	25	23	3.93	734	4.0	2.90	99.2	908	<20	<50	0.03	<1
A72749 (9672038)		<1	1.89	23	24	4.95	894	3.5	2.58	126	2840	<20	<50	0.02	<1
A72750 (9672039)		<1	2.16	25	23	5.19	900	3.3	2.45	141	967	<20	<50	0.05	<1
A72751 (9672040)		<1	1.78	23	18	5.59	962	3.1	2.41	143	978	<20	<50	0.04	<1
A72752 (9672041)		<1	0.03	3	1	3.28	83	1.8	0.06	1.9	85	<20	<50	<0.01	1
A72753 (9672042)		<1	2.59	27	31	5.79	970	2.4	2.85	129	1100	<20	<50	0.05	<1
A72754 (9672043)		<1	2.05	25	23	5.01	896	2.8	2.87	107	1060	<20	<50	0.04	<1
A72755 (9672044)		<1	2.14	23	23	4.69	875	3.0	2.92	94.5	990	<20	<50	0.06	<1
A72756 (9672045)		<1	2.90	28	25	4.32	798	3.1	2.53	88.7	1130	<20	<50	0.04	<1
A72757 (9672046)		<1	3.07	25	25	4.83	847	3.4	2.13	97.3	1050	<20	<50	0.04	<1
A72758 (9672047)		<1	3.18	25	26	4.93	866	2.6	2.19	98.5	1050	<20	<50	0.04	<1
A72759 (9672048)		<1	2.21	23	25	5.20	888	2.5	2.13	97.6	991	<20	<50	0.05	<1
A72760 (9672049)		<1	2.05	25	25	4.11	696	3.4	2.41	68.5	1030	<20	<50	0.03	<1
A72761 (9672050)		<1	1.52	25	21	4.68	810	1.8	2.30	75.0	1080	<20	<50	0.03	1
A72762 (9672051)		<1	1.14	23	18	4.25	790	2.8	2.44	67.3	1020	<20	<50	0.04	<1
A72763 (9672052)		<1	0.76	22	12	4.21	963	3.1	1.97	73.5	1010	<20	<50	0.05	<1
A72764 (9672053)		<1	1.82	22	19	4.61	910	2.3	1.67	69.4	953	<20	<50	0.03	1
A72765 (9672054)		<1	3.06	23	25	3.76	771	2.5	1.10	63.9	898	<20	<50	0.02	<1
A72766 (9672055)		<1	0.46	9	10	4.32	1280	<0.5	2.47	103	842	<20	<50	0.08	3
A72767 (9672056)		<1	2.89	21	18	4.06	937	2.9	1.30	76.3	958	<20	<50	0.04	<1
A72768 (9672057)		<1	2.05	24	44	4.05	835	2.4	2.12	68.7	1010	<20	<50	0.09	1
A72769 (9672058)		<1	1.35	24	36	3.83	827	2.5	2.51	59.2	1040	<20	<50	0.05	<1
A72770 (9672059)		<1	0.97	24	17	4.13	904	2.2	2.84	70.4	998	<20	<50	0.07	<1
A72771 (9672060)		<1	1.00	26	18	4.49	868	2.3	3.04	77.4	1040	<20	<50	0.07	<1
A72772 (9672061)		<1	0.02	3	<1	2.95	98	1.9	0.08	1.6	92	<20	<50	<0.01	<1
A72773 (9672062)		<1	0.85	24	17	4.28	801	4.1	3.32	73.7	943	<20	<50	0.04	1
A72774 (9672063)		<1	0.65	26	15	4.21	926	2.9	3.00	76.4	981	<20	<50	0.07	<1
A72775 (9672064)		<1	0.93	24	16	4.51	907	4.3	2.83	70.2	1010	<20	<50	0.03	2

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018		DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Dec 05, 2018					SAMPLE TYPE: Drill Core			
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:														
A72776 (9672065)	<1	1.02	25	20	4.18	787	2.8	3.45	59.7	1060	<20	<50	0.02	<1	

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Dec 05, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72744 (9672033)	20	<10	<5	550	<10	<10	<5	0.31	<5	<50	117	<1	13	72.4	
A72745 (9672034)	22	<10	<5	588	<10	<10	<5	0.36	<5	<50	137	2	13	78.7	
A72746 (9672035)	33	<10	<5	243	<10	<10	<5	0.87	<5	<50	236	3	21	88.2	
A72747 (9672036)	18	<10	<5	568	<10	<10	<5	0.37	<5	<50	128	2	13	73.0	
A72748 (9672037)	17	<10	<5	485	<10	<10	<5	0.33	<5	<50	114	2	12	71.2	
A72749 (9672038)	19	<10	<5	528	<10	<10	<5	0.34	<5	<50	119	2	15	69.4	
A72750 (9672039)	23	<10	<5	464	<10	<10	<5	0.35	<5	<50	139	1	14	75.4	
A72751 (9672040)	21	<10	<5	427	<10	<10	<5	0.35	<5	<50	127	<1	12	76.7	
A72752 (9672041)	<1	<10	<5	68	<10	<10	<5	<0.01	<5	<50	2.1	<1	2	4.1	
A72753 (9672042)	23	<10	<5	562	<10	<10	<5	0.41	<5	<50	148	1	14	82.6	
A72754 (9672043)	20	<10	<5	534	<10	<10	<5	0.34	<5	<50	123	2	12	74.7	
A72755 (9672044)	18	<10	<5	514	<10	<10	<5	0.35	<5	<50	115	<1	13	70.6	
A72756 (9672045)	18	<10	<5	423	<10	<10	<5	0.36	<5	<50	126	2	13	72.9	
A72757 (9672046)	20	<10	<5	517	<10	<10	<5	0.36	<5	<50	131	2	13	76.1	
A72758 (9672047)	20	<10	<5	530	<10	<10	<5	0.37	<5	<50	132	4	13	77.2	
A72759 (9672048)	22	<10	<5	838	<10	<10	<5	0.37	<5	<50	141	<1	14	77.1	
A72760 (9672049)	19	<10	<5	875	<10	<10	<5	0.35	<5	<50	133	2	13	70.2	
A72761 (9672050)	22	<10	<5	1020	<10	<10	<5	0.35	<5	<50	143	<1	13	73.6	
A72762 (9672051)	23	<10	<5	956	<10	<10	<5	0.35	<5	<50	148	2	14	72.8	
A72763 (9672052)	26	<10	<5	882	<10	<10	<5	0.35	<5	<50	152	1	15	74.9	
A72764 (9672053)	24	<10	<5	479	<10	<10	<5	0.39	<5	<50	150	2	13	80.8	
A72765 (9672054)	20	<10	<5	387	<10	<10	<5	0.34	<5	<50	132	3	13	69.7	
A72766 (9672055)	32	<10	<5	251	<10	<10	<5	0.90	<5	<50	231	2	21	86.9	
A72767 (9672056)	22	<10	<5	530	<10	<10	<5	0.31	<5	<50	137	3	14	71.8	
A72768 (9672057)	25	<10	<5	674	<10	<10	<5	0.38	<5	<50	170	3	16	77.8	
A72769 (9672058)	23	<10	<5	733	<10	<10	<5	0.36	<5	<50	148	3	14	74.8	
A72770 (9672059)	20	<10	<5	821	<10	<10	<5	0.35	<5	<50	134	<1	13	72.7	
A72771 (9672060)	23	<10	<5	1030	<10	<10	<5	0.38	<5	<50	150	2	14	77.7	
A72772 (9672061)	<1	<10	<5	76	<10	<10	<5	0.01	<5	<50	3.0	<1	2	3.0	
A72773 (9672062)	20	<10	<5	933	<10	<10	<5	0.35	<5	<50	133	2	13	74.1	
A72774 (9672063)	23	<10	<5	989	<10	<10	<5	0.35	<5	<50	151	2	14	76.8	
A72775 (9672064)	25	<10	<5	858	<10	<10	<5	0.39	<5	<50	158	2	15	78.7	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

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 TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018	DATE RECEIVED: Oct 30, 2018					DATE REPORTED: Dec 05, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72776 (9672065)	20	<10	<5	883	<10	<10	<5	0.37	<5	<50	139	3	14	80.2	

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(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72744 (9672033)				92
A72745 (9672034)				87
A72746 (9672035)				91
A72747 (9672036)				100
A72748 (9672037)				85
A72749 (9672038)				78
A72750 (9672039)				98
A72751 (9672040)				79
A72752 (9672041)				<5
A72753 (9672042)				105
A72754 (9672043)				87
A72755 (9672044)				90
A72756 (9672045)				99
A72757 (9672046)				94
A72758 (9672047)				90
A72759 (9672048)				89
A72760 (9672049)				95
A72761 (9672050)				97
A72762 (9672051)				96
A72763 (9672052)				71
A72764 (9672053)				77
A72765 (9672054)				81
A72766 (9672055)				88
A72767 (9672056)				69
A72768 (9672057)				89
A72769 (9672058)				94
A72770 (9672059)				90
A72771 (9672060)				94
A72772 (9672061)				<5
A72773 (9672062)				92
A72774 (9672063)				97
A72775 (9672064)				99

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**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
Sample ID (AGAT ID)	RDL: 5
A72776 (9672065)	96

Comments: RDL - Reported Detection Limit  
9672033-9672065 As, Sb values may be low due to digestion losses.

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PROJECT: AGAT00422

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 01, 2018      DATE RECEIVED: Oct 30, 2018      DATE REPORTED: Dec 05, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A72744 (9672033)				0.003
A72745 (9672034)				0.002
A72746 (9672035)				0.338
A72747 (9672036)				0.002
A72748 (9672037)				0.004
A72749 (9672038)				0.005
A72750 (9672039)				0.002
A72751 (9672040)				0.001
A72752 (9672041)				0.001
A72753 (9672042)				0.003
A72754 (9672043)				0.002
A72755 (9672044)				0.002
A72756 (9672045)				0.002
A72757 (9672046)				0.002
A72758 (9672047)				0.002
A72759 (9672048)				0.002
A72760 (9672049)				0.006
A72761 (9672050)				0.004
A72762 (9672051)				0.004
A72763 (9672052)				0.005
A72764 (9672053)				0.007
A72765 (9672054)				0.006
A72766 (9672055)				0.354
A72767 (9672056)				0.007
A72768 (9672057)				0.009
A72769 (9672058)				0.003
A72770 (9672059)				0.002
A72771 (9672060)				0.002
A72772 (9672061)				0.001
A72773 (9672062)				0.004
A72774 (9672063)				0.202
A72775 (9672064)				0.005

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

5623 McADAM ROAD  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Analyte: Au

Unit: ppm

Sample ID (AGAT ID) RDL: 0.001

A72776 (9672065) 0.005

Comments: RDL - Reported Detection Limit

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## Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72745 (9672034)		84
A72763 (9672052)		79

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B404997

PROJECT: AGAT00422

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 01, 2018

DATE RECEIVED: Oct 30, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72744 (9672033)		93
A72773 (9672062)		91

Comments: RDL - Reported Detection Limit

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9672033	< 0.5	< 0.5	0.0%	9672047	< 0.5	< 0.5	0.0%	9672058	< 0.5	< 0.5	0.0%				
Al	9672033	7.62	7.07	7.5%	9672047	6.71	6.45	4.0%	9672058	7.13	7.16	0.4%				
As	9672033	3	3	0.0%	9672047	< 1	< 1	0.0%	9672058	3	2					
Ba	9672033	845	850	0.6%	9672047	913	854	6.7%	9672058	748	763	2.0%				
Be	9672033	1.90	1.84	3.2%	9672047	1.5	1.5	0.0%	9672058	2.2	2.0	9.5%				
Bi	9672033	< 1	< 1	0.0%	9672047	< 1	< 1	0.0%	9672058	< 1	< 1	0.0%				
Ca	9672033	4.03	3.77	6.7%	9672047	3.60	3.39	6.0%	9672058	4.30	4.33	0.7%				
Cd	9672033	< 0.5	< 0.5	0.0%	9672047	< 0.5	< 0.5	0.0%	9672058	< 0.5	< 0.5	0.0%				
Ce	9672033	52	48	8.0%	9672047	55	53	3.7%	9672058	54	54	0.0%				
Co	9672033	23.2	24.0	3.4%	9672047	30.2	30.8	2.0%	9672058	26.6	26.1	1.9%				
Cr	9672033	195	199	2.0%	9672047	296	300	1.3%	9672058	209	200	4.4%				
Cu	9672033	39.2	33.1	16.9%	9672047	34.6	34.9	0.9%	9672058	43.0	40.0	7.2%				
Fe	9672033	4.57	4.38	4.2%	9672047	5.13	4.93	4.0%	9672058	5.01	4.98	0.6%				
Ga	9672033	23.0	26.0	12.2%	9672047	28.0	26.0	7.4%	9672058	28.0	26.0	7.4%				
In	9672033	< 1	< 1	0.0%	9672047	< 1	< 1	0.0%	9672058	< 1	< 1	0.0%				
K	9672033	1.91	1.96	2.6%	9672047	3.18	3.04	4.5%	9672058	1.35	1.35	0.0%				
La	9672033	23	22	4.4%	9672047	25	25	0.0%	9672058	24	23	4.3%				
Li	9672033	27	27	0.0%	9672047	26	25	3.9%	9672058	36	34	5.7%				
Mg	9672033	3.67	3.47	5.6%	9672047	4.93	4.76	3.5%	9672058	3.83	3.81	0.5%				
Mn	9672033	803	750	6.8%	9672047	866	838	3.3%	9672058	827	820	0.9%				
Mo	9672033	4.8	3.8	23.3%	9672047	2.62	2.72	3.7%	9672058	2.51	2.42	3.7%				
Na	9672033	3.46	3.24	6.6%	9672047	2.19	2.05	6.6%	9672058	2.51	2.56	2.0%				
Ni	9672033	66.6	67.3	1.0%	9672047	98.5	99.6	1.1%	9672058	59.2	56.4	4.8%				
P	9672033	1080	1000	7.7%	9672047	1050	1070	1.9%	9672058	1040	995	4.4%				
Pb	9672033	< 20	< 20	0.0%	9672047	< 20	< 20	0.0%	9672058	< 20	< 20	0.0%				
Rb	9672033	< 50	< 50	0.0%	9672047	< 50	< 50	0.0%	9672058	< 50	< 50	0.0%				
S	9672033	0.03	0.03	0.0%	9672047	0.04	0.04	0.0%	9672058	0.045	0.041	9.3%				
Sb	9672033	1	< 1		9672047	< 1	< 1	0.0%	9672058	< 1	1					
Sc	9672033	20	18	10.5%	9672047	20	20	0.0%	9672058	23	22	4.4%				
Se	9672033	< 10	< 10	0.0%	9672047	< 10	< 10	0.0%	9672058	< 10	< 10	0.0%				
Sn	9672033	< 5	< 5	0.0%	9672047	< 5	< 5	0.0%	9672058	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9672033	550	512	7.2%	9672047	530	519	2.1%	9672058	733	735	0.3%				
Ta	9672033	< 10	< 10	0.0%	9672047	< 10	< 10	0.0%	9672058	< 10	< 10	0.0%				
Te	9672033	< 10	< 10	0.0%	9672047	< 10	< 10	0.0%	9672058	< 10	< 10	0.0%				
Th	9672033	< 5	< 5	0.0%	9672047	< 5	< 5	0.0%	9672058	< 5	< 5	0.0%				
Ti	9672033	0.31	0.31	0.0%	9672047	0.369	0.355	3.9%	9672058	0.36	0.36	0.0%				
Tl	9672033	< 5	< 5	0.0%	9672047	< 5	< 5	0.0%	9672058	< 5	< 5	0.0%				
U	9672033	< 50	< 50	0.0%	9672047	< 50	< 50	0.0%	9672058	< 50	< 50	0.0%				
V	9672033	117	117	0.0%	9672047	132	133	0.8%	9672058	148	144	2.7%				
W	9672033	< 1	3		9672047	4	2		9672058	3	3	0.0%				
Y	9672033	13	11	16.7%	9672047	13	13	0.0%	9672058	14	14	0.0%				
Zn	9672033	72.4	71.0	2.0%	9672047	77.2	75.5	2.2%	9672058	74.8	72.7	2.8%				
Zr	9672033	92	83	10.3%	9672047	90	90	0.0%	9672058	94	92	2.2%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9672033	0.003	0.006		9672047	0.002	0.002	0.0%	9672058	0.003	0.004	28.6%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GTS-2a)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.69	98%	90% - 110%	6.96	6.99	100%	90% - 110%							
As					124	123	100%	90% - 110%							
Ba	340	330	97%	90% - 110%	186	181	97%	90% - 110%							
Be	2.6	2.5	98%	90% - 110%											
Ca	5.72	5.45	95%	90% - 110%	4.01	3.8	95%	90% - 110%							
Ce	122	113	93%	90% - 110%	24	21.8	91%	90% - 110%							
Co					22.1	20.2	91%	90% - 110%							
Cu	7	5	77%	90% - 110%	88.6	85.4	96%	90% - 110%							
Fe	4.34	3.94	91%	90% - 110%	7.56	7.07	94%	90% - 110%							
Ga	35	38	109%	90% - 110%											
K	1.37	1.43	104%	90% - 110%	2.021	2.05	101%	90% - 110%							
La	58	49	85%	90% - 110%											
Li	37	36	98%	90% - 110%											
Mg	0.325	0.303	93%	90% - 110%	2.412	2.39	99%	90% - 110%							
Mn					1510	1367	91%	90% - 110%							
Na	5.267	5.561	106%	90% - 110%	0.617	0.649	105%	90% - 110%							
Ni	9	7	73%	90% - 110%	77.1	69.8	91%	90% - 110%							
P					892	859	96%	90% - 110%							
S					0.348	0.322	92%	90% - 110%							
Sr	1191	1151	97%	90% - 110%	92.8	88.3	95%	90% - 110%							
Ti	0.172	0.165	96%	90% - 110%											
Y	119	110	92%	90% - 110%											
Zn	93	88	94%	90% - 110%	208	202	97%	90% - 110%							

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	2.01	2.20	109%	90% - 110%	0.468	0.494	106%	90% - 110%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00422  
 SAMPLING SITE:

AGAT WORK ORDER: 18B404997  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00432

AGAT WORK ORDER: 18B405471

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 30, 2018

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Nov 03, 2018      DATE RECEIVED: Nov 01, 2018      DATE REPORTED: Nov 30, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72809 (9675463)		1.97
A72810 (9675464)		1.88
A72811 (9675465)		2.34
A72812 (9675466)		1.1
A72813 (9675467)		2.23
A72814 (9675468)		2.38
A72815 (9675469)		2.29
A72816 (9675470)		2.14
A72817 (9675471)		2.28
A72818 (9675472)		2.28
A72819 (9675473)		1.78
A72820 (9675474)		.76
A72821 (9675475)		2.19
A72822 (9675476)		2.23
A72823 (9675477)		2.26
A72824 (9675478)		2.1
A72825 (9675479)		2
A72826 (9675480)		.12
A72827 (9675481)		2.19
A72828 (9675482)		2.25
A72829 (9675483)		2.21
A72830 (9675484)		2.19
A72831 (9675485)		2.23
A72832 (9675486)		1.19
A72833 (9675487)		1.79

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018	DATE RECEIVED: Nov 01, 2018					DATE REPORTED: Nov 30, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72809 (9675463)	<0.5	7.05	3	811	1.8	<1	3.00	<0.5	59	17.3	67.9	29.6	3.47	20.0	
A72810 (9675464)	<0.5	7.00	8	811	1.6	<1	3.13	<0.5	59	16.0	68.2	29.5	3.15	20.0	
A72811 (9675465)	<0.5	7.28	2	790	1.9	3	2.98	<0.5	61	15.5	65.5	28.2	3.46	19.0	
A72812 (9675466)	<0.5	0.11	<1	17	<0.5	<1	31.3	<0.5	<1	0.8	4.5	<0.5	0.19	8.00	
A72813 (9675467)	<0.5	6.47	<1	688	2.2	1	4.16	<0.5	60	17.4	72.9	28.7	3.57	19.0	
A72814 (9675468)	<0.5	7.05	1	712	1.7	<1	3.33	<0.5	62	17.1	73.9	39.8	3.77	19.0	
A72815 (9675469)	<0.5	7.15	<1	763	1.8	2	2.96	<0.5	61	15.7	64.2	32.4	3.40	20.0	
A72816 (9675470)	<0.5	7.19	<1	720	1.9	<1	3.03	<0.5	63	16.6	70.7	33.5	3.61	20.0	
A72817 (9675471)	<0.5	7.32	<1	830	1.8	3	3.11	<0.5	65	16.1	66.7	27.7	3.24	20.0	
A72818 (9675472)	<0.5	7.56	4	863	1.8	<1	3.19	<0.5	66	16.4	67.1	30.3	3.39	20.0	
A72819 (9675473)	<0.5	7.39	<1	713	1.7	<1	2.72	<0.5	61	15.5	58.4	29.7	3.35	20.0	
A72820 (9675474)	<0.5	6.94	1	725	1.9	<1	3.41	<0.5	63	16.4	61.1	34.5	3.30	20.0	
A72821 (9675475)	<0.5	7.33	<1	863	2.1	<1	2.72	<0.5	60	15.3	61.5	28.3	3.15	21.0	
A72822 (9675476)	<0.5	7.32	<1	871	1.6	<1	3.15	<0.5	65	16.3	78.3	32.8	3.54	19.0	
A72823 (9675477)	<0.5	6.94	2	843	1.8	<1	3.48	<0.5	65	17.1	83.9	37.9	3.70	20.0	
A72824 (9675478)	<0.5	7.23	5	594	1.5	<1	3.03	<0.5	59	16.3	67.9	32.2	3.40	19.0	
A72825 (9675479)	<0.5	7.20	<1	688	1.5	<1	2.88	<0.5	60	16.5	64.0	30.0	3.42	21.0	
A72826 (9675480)	<0.5	7.15	<1	144	2.0	<1	6.73	<0.5	8	42.5	134	149	7.75	28.0	
A72827 (9675481)	<0.5	7.02	<1	711	1.8	<1	3.09	<0.5	64	16.7	72.0	24.5	3.40	21.0	
A72828 (9675482)	<0.5	7.35	<1	698	1.8	<1	3.05	<0.5	70	16.6	74.5	32.7	3.57	21.0	
A72829 (9675483)	<0.5	7.46	2	796	1.6	2	2.97	<0.5	69	16.7	76.8	29.6	3.61	19.0	
A72830 (9675484)	<0.5	7.70	2	860	1.8	3	3.08	<0.5	70	18.2	91.8	29.3	3.90	23.0	
A72831 (9675485)	<0.5	7.33	<1	655	1.7	<1	2.55	<0.5	59	16.6	64.5	32.5	3.42	20.0	
A72832 (9675486)	<0.5	0.14	4	21	<0.5	<1	32.4	<0.5	<1	0.9	4.1	<0.5	0.17	6.00	
A72833 (9675487)	<0.5	7.06	2	717	2.1	1	3.49	<0.5	56	14.4	43.9	25.1	3.10	18.0	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018	DATE RECEIVED: Nov 01, 2018					DATE REPORTED: Nov 30, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72809 (9675463)	<1	1.74	29	21	1.75	538	5.1	2.56	54.5	709	<20	<50	0.07	2	
A72810 (9675464)	<1	1.78	29	16	1.69	545	4.8	2.57	53.3	682	<20	<50	0.11	2	
A72811 (9675465)	<1	1.82	28	18	1.72	520	5.9	2.61	47.8	730	<20	<50	0.07	<1	
A72812 (9675466)	<1	0.02	3	1	3.11	85	1.9	0.06	1.0	90	<20	<50	<0.01	<1	
A72813 (9675467)	<1	1.70	28	22	1.81	566	4.5	2.32	46.2	816	<20	<50	0.08	1	
A72814 (9675468)	<1	1.89	28	21	1.80	613	5.3	2.38	45.3	810	<20	<50	0.11	<1	
A72815 (9675469)	<1	2.05	28	18	1.56	532	5.3	2.41	45.1	743	<20	<50	0.08	3	
A72816 (9675470)	<1	1.89	29	18	1.70	569	6.1	2.47	49.0	741	<20	<50	0.06	<1	
A72817 (9675471)	<1	2.16	32	18	1.72	515	4.1	2.46	55.3	679	<20	<50	0.06	<1	
A72818 (9675472)	<1	2.23	32	19	1.77	536	4.9	2.54	54.4	684	<20	<50	0.06	<1	
A72819 (9675473)	<1	1.97	29	19	1.64	503	5.6	2.61	45.4	708	<20	<50	0.05	1	
A72820 (9675474)	<1	1.62	30	21	1.60	522	5.2	2.94	46.9	710	<20	<50	0.06	4	
A72821 (9675475)	<1	2.31	29	21	1.58	500	5.2	2.57	48.6	718	<20	<50	0.05	<1	
A72822 (9675476)	<1	2.25	32	13	1.83	589	5.0	2.31	53.5	676	<20	<50	0.06	<1	
A72823 (9675477)	<1	2.12	31	12	1.81	618	5.2	2.11	52.1	711	<20	<50	0.09	2	
A72824 (9675478)	<1	1.60	28	14	1.75	546	5.0	2.59	50.7	651	<20	<50	0.05	<1	
A72825 (9675479)	<1	1.48	29	15	1.70	540	5.2	2.76	47.3	683	<20	<50	0.05	<1	
A72826 (9675480)	<1	0.21	4	11	4.31	1350	<0.5	2.26	88.9	416	<20	<50	0.14	2	
A72827 (9675481)	<1	1.22	32	15	1.80	577	5.9	2.92	50.7	711	<20	<50	0.04	1	
A72828 (9675482)	<1	1.05	36	17	1.97	564	5.3	3.42	54.4	696	<20	<50	0.05	3	
A72829 (9675483)	<1	0.98	33	16	1.96	569	6.2	3.40	54.1	714	<20	<50	0.05	<1	
A72830 (9675484)	<1	1.30	33	16	2.17	597	3.6	3.11	62.4	743	<20	<50	0.05	<1	
A72831 (9675485)	<1	1.25	29	17	1.67	509	5.0	3.22	52.3	678	<20	<50	0.06	<1	
A72832 (9675486)	<1	0.03	3	1	1.75	52	2.1	0.07	1.1	91	<20	<50	<0.01	1	
A72833 (9675487)	<1	1.58	27	20	1.52	478	3.9	2.89	45.4	620	<20	<50	0.05	1	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018

DATE RECEIVED: Nov 01, 2018

DATE REPORTED: Nov 30, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sc ppm 1	Se ppm 10	Sn ppm 5	Sr ppm 1	Ta ppm 10	Te ppm 10	Th ppm 5	Ti % 0.01	Tl ppm 5	U ppm 50	V ppm 0.5	W ppm 1	Y ppm 1	Zn ppm 0.5
A72809 (9675463)		13	<10	<5	736	<10	<10	<5	0.32	<5	<50	106	1	10	62.4
A72810 (9675464)		12	<10	<5	737	<10	<10	<5	0.28	<5	<50	97.6	2	10	60.6
A72811 (9675465)		13	<10	<5	693	<10	<10	<5	0.32	<5	<50	105	<1	10	63.9
A72812 (9675466)		<1	<10	<5	69	<10	<10	<5	<0.01	<5	<50	1.8	<1	2	3.9
A72813 (9675467)		14	<10	<5	583	<10	<10	<5	0.32	<5	<50	115	<1	12	67.1
A72814 (9675468)		14	<10	<5	585	<10	<10	<5	0.34	<5	<50	117	3	13	68.6
A72815 (9675469)		13	<10	<5	542	<10	<10	<5	0.33	<5	<50	107	2	10	64.5
A72816 (9675470)		14	<10	<5	576	<10	<10	<5	0.33	<5	<50	113	3	11	67.2
A72817 (9675471)		12	<10	<5	600	<10	<10	<5	0.29	<5	<50	99.7	2	10	62.7
A72818 (9675472)		12	<10	<5	606	<10	<10	<5	0.30	<5	<50	100	2	10	64.0
A72819 (9675473)		12	<10	<5	569	<10	<10	<5	0.31	<5	<50	102	<1	10	68.8
A72820 (9675474)		12	<10	<5	551	<10	<10	<5	0.30	<5	<50	99.8	<1	11	64.3
A72821 (9675475)		12	<10	<5	613	<10	<10	<5	0.30	<5	<50	97.4	2	10	56.7
A72822 (9675476)		13	<10	<5	752	<10	<10	<5	0.31	<5	<50	103	2	9	55.2
A72823 (9675477)		14	<10	<5	723	<10	<10	<5	0.32	<5	<50	112	1	10	54.2
A72824 (9675478)		12	<10	<5	713	<10	<10	<5	0.27	<5	<50	100	<1	10	50.2
A72825 (9675479)		13	<10	<5	706	<10	<10	<5	0.28	<5	<50	102	<1	10	62.3
A72826 (9675480)		45	<10	<5	110	<10	<10	<5	0.67	<5	<50	316	2	22	77.5
A72827 (9675481)		13	<10	<5	701	<10	<10	<5	0.27	<5	<50	104	<1	11	63.9
A72828 (9675482)		13	<10	<5	821	<10	<10	<5	0.28	<5	<50	107	1	11	67.0
A72829 (9675483)		13	<10	<5	916	<10	<10	<5	0.29	<5	<50	107	2	11	71.1
A72830 (9675484)		15	<10	<5	812	<10	<10	<5	0.33	<5	<50	115	<1	12	75.8
A72831 (9675485)		13	<10	<5	695	<10	<10	<5	0.30	<5	<50	103	1	10	66.0
A72832 (9675486)		<1	<10	<5	75	<10	<10	<5	<0.01	<5	<50	2.4	<1	2	2.4
A72833 (9675487)		11	<10	<5	651	<10	<10	<5	0.28	<5	<50	92.6	1	10	60.3

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018      DATE RECEIVED: Nov 01, 2018      DATE REPORTED: Nov 30, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72809 (9675463)				95
A72810 (9675464)				95
A72811 (9675465)				101
A72812 (9675466)				<5
A72813 (9675467)				100
A72814 (9675468)				100
A72815 (9675469)				100
A72816 (9675470)				100
A72817 (9675471)				96
A72818 (9675472)				97
A72819 (9675473)				98
A72820 (9675474)				104
A72821 (9675475)				100
A72822 (9675476)				95
A72823 (9675477)				88
A72824 (9675478)				90
A72825 (9675479)				93
A72826 (9675480)				58
A72827 (9675481)				96
A72828 (9675482)				97
A72829 (9675483)				98
A72830 (9675484)				98
A72831 (9675485)				102
A72832 (9675486)				<5
A72833 (9675487)				97

Comments: RDL - Reported Detection Limit  
 9675463-9675487 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 03, 2018	DATE RECEIVED: Nov 01, 2018	DATE REPORTED: Nov 30, 2018	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72809 (9675463)			0.003
A72810 (9675464)			0.003
A72811 (9675465)			0.003
A72812 (9675466)			0.001
A72813 (9675467)			0.005
A72814 (9675468)			0.011
A72815 (9675469)			0.005
A72816 (9675470)			0.004
A72817 (9675471)			0.002
A72818 (9675472)			0.002
A72819 (9675473)			0.002
A72820 (9675474)			0.003
A72821 (9675475)			0.002
A72822 (9675476)			0.004
A72823 (9675477)			0.004
A72824 (9675478)			0.001
A72825 (9675479)			0.002
A72826 (9675480)			0.514
A72827 (9675481)			0.002
A72828 (9675482)			0.002
A72829 (9675483)			0.002
A72830 (9675484)			0.003
A72831 (9675485)			0.003
A72832 (9675486)			<0.001
A72833 (9675487)			0.003

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 03, 2018

DATE RECEIVED: Nov 01, 2018

DATE REPORTED: Nov 30, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72809 (9675463)		83
A72829 (9675483)		82

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B405471

PROJECT: AGAT00432

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 03, 2018

DATE RECEIVED: Nov 01, 2018

DATE REPORTED: Nov 30, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72809 (9675463)	96.2

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9675463	< 0.5	< 0.5	0.0%	9675477	< 0.5	< 0.5	0.0%								
Al	9675463	7.05	7.17	1.7%	9675477	6.94	7.15	3.0%								
As	9675463	3	3	0.0%	9675477	2	2	0.0%								
Ba	9675463	811	821	1.2%	9675477	843	857	1.6%								
Be	9675463	1.8	1.8	0.0%	9675477	1.79	1.74	2.8%								
Bi	9675463	< 1	2		9675477	< 1	2									
Ca	9675463	3.00	3.00	0.0%	9675477	3.48	3.53	1.4%								
Cd	9675463	< 0.5	< 0.5	0.0%	9675477	< 0.5	< 0.5	0.0%								
Ce	9675463	59	60	1.7%	9675477	65	64	1.6%								
Co	9675463	17.3	16.2	6.6%	9675477	17.1	17.1	0.0%								
Cr	9675463	67.9	70.5	3.8%	9675477	83.9	87.7	4.4%								
Cu	9675463	29.6	29.1	1.7%	9675477	37.9	37.8	0.3%								
Fe	9675463	3.47	3.54	2.0%	9675477	3.70	3.80	2.7%								
Ga	9675463	20.0	21.0	4.9%	9675477	20.0	21.0	4.9%								
In	9675463	< 1	< 1	0.0%	9675477	< 1	< 1	0.0%								
K	9675463	1.74	1.77	1.7%	9675477	2.12	2.18	2.8%								
La	9675463	29	28	3.5%	9675477	31	32	3.2%								
Li	9675463	21	21	0.0%	9675477	12	12	0.0%								
Mg	9675463	1.75	1.76	0.6%	9675477	1.81	1.86	2.7%								
Mn	9675463	538	550	2.2%	9675477	618	631	2.1%								
Mo	9675463	5.13	5.85	13.1%	9675477	5.2	5.0	3.9%								
Na	9675463	2.56	2.57	0.4%	9675477	2.11	2.16	2.3%								
Ni	9675463	54.5	54.4	0.2%	9675477	52.1	53.2	2.1%								
P	9675463	709	676	4.8%	9675477	711	731	2.8%								
Pb	9675463	< 20	< 20	0.0%	9675477	< 20	< 20	0.0%								
Rb	9675463	< 50	< 50	0.0%	9675477	< 50	< 50	0.0%								
S	9675463	0.07	0.07	0.0%	9675477	0.09	0.09	0.0%								
Sb	9675463	2	< 1		9675477	2	2	0.0%								
Sc	9675463	13	13	0.0%	9675477	14	14	0.0%								
Se	9675463	< 10	< 10	0.0%	9675477	< 10	< 10	0.0%								
Sn	9675463	< 5	< 5	0.0%	9675477	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9675463	736	759	3.1%	9675477	723	728	0.7%									
Ta	9675463	< 10	< 10	0.0%	9675477	< 10	< 10	0.0%									
Te	9675463	< 10	< 10	0.0%	9675477	< 10	< 10	0.0%									
Th	9675463	< 5	< 5	0.0%	9675477	< 5	< 5	0.0%									
Ti	9675463	0.316	0.313	1.0%	9675477	0.32	0.32	0.0%									
Tl	9675463	< 5	< 5	0.0%	9675477	< 5	< 5	0.0%									
U	9675463	< 50	< 50	0.0%	9675477	< 50	< 50	0.0%									
V	9675463	106	106	0.0%	9675477	112	110	1.8%									
W	9675463	1	2		9675477	1	2										
Y	9675463	10	11	9.5%	9675477	10	11	9.5%									
Zn	9675463	62.4	65.1	4.2%	9675477	54.2	54.9	1.3%									
Zr	9675463	95	98	3.1%	9675477	88	86	2.3%									

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2												
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	9675463	0.003	0.003	0.0%	9675477	0.004	0.005	22.2%									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.53	96%	90% - 110%	8.17	7.95	97%	90% - 110%							
As					26	24	90%	90% - 110%							
Ba	340	314	92%	90% - 110%	540	487	90%	90% - 110%							
Be	2.6	2.7	104%	90% - 110%	4.0	4.5	112%	90% - 110%							
Ca	5.72	5.37	94%	90% - 110%	0.907	0.853	94%	90% - 110%							
Ce	122	114	93%	90% - 110%	98	96	98%	90% - 110%							
Cu	7	7	94%	90% - 110%	150	140	94%	90% - 110%							
Fe	4.34	3.96	91%	90% - 110%	3.77	3.51	93%	90% - 110%							
Ga	35	37	106%	90% - 110%											
K	1.37	1.38	101%	90% - 110%											
La	58	52.8	91%	90% - 110%	44	40.6	92%	90% - 110%							
Li	37	36	98%	90% - 110%	47	44	94%	90% - 110%							
Mg	0.325	0.295	91%	90% - 110%	1.10	1.06	96%	90% - 110%							
Mn					780	710	91%	90% - 110%							
Mo					14	14	102%	90% - 110%							
Na	5.267	5.168	98%	90% - 110%	1.624	1.627	100%	90% - 110%							
Ni					32	33	102%	90% - 110%							
P					750	728	97%	90% - 110%							
Pb	10	8	81%	90% - 110%	31	32	103%	90% - 110%							
Sb					0.8	1	128%	90% - 110%							
Sc					12	12	100%	90% - 110%							
Sr	1191	1114	94%	90% - 110%	144	142	99%	90% - 110%							
Ti	0.172	0.168	98%	90% - 110%	0.53	0.481	91%	90% - 110%							
V	8	7	82%	90% - 110%	77	80	104%	90% - 110%							
W					5	5	99%	90% - 110%							
Y	119	117	98%	90% - 110%											
Zn	93	89	96%	90% - 110%	130	118	91%	90% - 110%							

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	2.01	1.91	95%	90% - 110%	0.468	0.510	108%	90% - 110%							





## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00432  
 SAMPLING SITE:

AGAT WORK ORDER: 18B405471  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00433

AGAT WORK ORDER: 18B405472

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Dec 05, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Nov 03, 2018      DATE RECEIVED: Nov 01, 2018      DATE REPORTED: Dec 05, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72834 (9675488)		.78
A72835 (9675489)		2.31
A72836 (9675490)		2.26
A72837 (9675491)		2.16
A72838 (9675492)		2.16
A72839 (9675493)		2
A72840 (9675494)		2.21
A72841 (9675495)		2.37
A72842 (9675496)		1.27
A72843 (9675497)		1.98
A72844 (9675498)		2
A72845 (9675499)		1.08
A72846 (9675500)		.13
A72847 (9675501)		2.28
A72848 (9675502)		2.34
A72849 (9675503)		1.59
A72850 (9675504)		.94
A72851 (9675505)		1.93
A72852 (9675506)		1.23
A72853 (9675507)		1.67
A72854 (9675508)		1.63
A72855 (9675509)		1.71
A72856 (9675510)		2.65
A72857 (9675511)		1.84
A72858 (9675512)		1.84
A72859 (9675513)		1.72
A72860 (9675514)		1.16
A72861 (9675515)		2

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018	DATE RECEIVED: Nov 01, 2018							DATE REPORTED: Dec 05, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72834 (9675488)	<0.5	6.82	<1	697	1.4	<1	2.00	<0.5	54	16.0	67.6	33.0	3.31	31	
A72835 (9675489)	<0.5	6.60	<1	674	1.7	<1	2.64	<0.5	55	18.1	72.7	40.4	3.58	29	
A72836 (9675490)	<0.5	7.07	<1	611	1.7	3	2.56	<0.5	56	16.7	68.8	42.0	3.71	28	
A72837 (9675491)	<0.5	6.92	<1	719	1.7	2	2.16	<0.5	59	16.3	54.9	43.3	3.44	28	
A72838 (9675492)	<0.5	6.82	<1	731	1.8	2	2.08	<0.5	56	21.0	52.7	127	3.46	27	
A72839 (9675493)	<0.5	6.74	<1	677	1.6	<1	2.23	<0.5	55	16.8	59.4	732	3.55	28	
A72840 (9675494)	<0.5	6.49	<1	737	1.8	<1	3.24	<0.5	68	22.0	113	95.9	4.26	32	
A72841 (9675495)	<0.5	6.83	<1	859	2.1	1	2.48	<0.5	56	16.6	68.2	42.5	3.54	30	
A72842 (9675496)	<0.5	8.02	2	1870	3.1	<1	4.24	<0.5	215	14.4	34.0	36.0	4.94	35	
A72843 (9675497)	<0.5	7.00	<1	842	1.8	<1	2.21	<0.5	59	15.8	64.4	33.2	3.49	28	
A72844 (9675498)	<0.5	7.17	<1	698	1.6	2	2.31	<0.5	54	15.9	67.7	33.1	3.72	27	
A72845 (9675499)	<0.5	6.96	<1	589	1.5	<1	2.04	<0.5	53	14.5	56.3	31.4	3.19	28	
A72846 (9675500)	<0.5	7.01	<1	184	2.1	4	6.03	<0.5	17	39.7	137	114	7.44	37	
A72847 (9675501)	<0.5	6.89	<1	601	1.6	<1	2.16	<0.5	51	15.5	59.4	36.6	3.26	30	
A72848 (9675502)	<0.5	6.80	<1	658	1.4	1	2.48	<0.5	49	18.2	65.8	106	3.70	27	
A72849 (9675503)	<0.5	6.84	<1	733	1.6	1	2.38	<0.5	55	16.3	84.3	122	3.60	28	
A72850 (9675504)	<0.5	6.95	<1	704	1.8	2	2.64	<0.5	54	13.8	68.1	30.6	3.20	26	
A72851 (9675505)	<0.5	6.99	<1	706	1.6	<1	1.80	<0.5	51	13.8	60.4	38.8	3.05	25	
A72852 (9675506)	<0.5	0.13	<1	22	<0.5	<1	31.2	<0.5	<1	0.8	3.1	<0.5	0.18	13	
A72853 (9675507)	<0.5	7.28	<1	878	2.8	3	3.36	<0.5	56	14.2	54.9	28.1	3.50	28	
A72854 (9675508)	<0.5	7.44	<1	669	1.4	2	2.10	<0.5	57	14.5	57.1	34.3	3.22	28	
A72855 (9675509)	<0.5	7.48	<1	749	1.6	2	2.20	<0.5	60	13.7	47.2	50.2	3.21	28	
A72856 (9675510)	<0.5	5.90	<1	459	1.3	<1	2.04	<0.5	49	14.8	52.3	88.9	3.10	25	
A72857 (9675511)	<0.5	6.79	2	499	1.8	2	2.46	<0.5	63	18.3	82.5	79.1	3.77	30	
A72858 (9675512)	<0.5	6.65	<1	512	1.7	2	2.52	<0.5	61	17.6	73.4	46.3	3.73	30	
A72859 (9675513)	<0.5	6.94	<1	644	1.8	3	2.76	<0.5	62	18.0	82.3	41.0	3.90	30	
A72860 (9675514)	<0.5	5.74	<1	880	2.9	5	4.24	<0.5	95	29.9	250	81.3	5.59	36	
A72861 (9675515)	<0.5	4.97	<1	1050	4.6	13	5.69	<0.5	113	38.7	320	72.8	6.45	35	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018

DATE RECEIVED: Nov 01, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1
A72834 (9675488)		<1	1.69	24	17	1.36	486	4.2	2.72	58.6	591	<20	<50	0.10	<1
A72835 (9675489)		<1	1.78	23	17	1.46	586	4.2	2.35	51.6	594	<20	<50	0.14	<1
A72836 (9675490)		<1	1.91	24	19	1.45	586	6.7	2.62	59.3	612	<20	<50	0.14	<1
A72837 (9675491)		<1	1.97	26	20	1.40	501	3.7	2.66	53.4	627	<20	<50	0.15	2
A72838 (9675492)		<1	1.93	24	19	1.38	496	4.2	2.71	260	607	<20	<50	0.18	<1
A72839 (9675493)		<1	2.14	24	19	1.37	493	5.5	2.39	64.5	621	<20	<50	0.14	<1
A72840 (9675494)		<1	1.82	30	18	1.94	694	3.6	2.30	64.8	725	<20	<50	0.26	<1
A72841 (9675495)		<1	2.48	25	20	1.44	558	5.2	2.50	50.1	681	<20	<50	0.11	3
A72842 (9675496)		<1	1.76	93	14	1.88	1040	3.6	3.23	22.2	2100	21	<50	0.07	<1
A72843 (9675497)		<1	2.38	26	22	1.36	524	4.8	2.70	47.9	635	<20	<50	0.09	<1
A72844 (9675498)		<1	2.17	24	21	1.53	588	5.4	2.67	48.9	577	<20	<50	0.13	<1
A72845 (9675499)		<1	2.12	24	16	1.24	476	6.1	2.57	43.6	544	<20	<50	0.11	<1
A72846 (9675500)		<1	0.44	9	10	4.02	1310	<0.5	2.19	112	834	<20	<50	0.08	<1
A72847 (9675501)		<1	1.92	23	21	1.27	517	5.5	2.67	52.9	557	<20	<50	0.08	<1
A72848 (9675502)		<1	2.05	21	17	1.34	586	5.6	2.45	90	551	<20	<50	0.17	<1
A72849 (9675503)		<1	2.40	25	16	1.33	499	5.5	2.27	53.1	557	<20	<50	0.18	<1
A72850 (9675504)		<1	2.08	24	15	1.29	537	5.6	2.38	45.0	551	<20	<50	0.10	2
A72851 (9675505)		<1	2.67	23	16	1.06	378	6.0	2.32	44.2	530	<20	<50	0.13	1
A72852 (9675506)		<1	0.04	2	1	2.02	70	2.1	0.06	1.4	71	<20	<50	<0.01	<1
A72853 (9675507)		<1	2.96	25	19	1.57	563	4.0	2.19	43.9	562	<20	<50	0.08	3
A72854 (9675508)		<1	2.25	25	21	1.37	455	4.6	2.68	50.8	582	<20	<50	0.07	2
A72855 (9675509)		<1	2.11	27	19	1.31	451	5.4	2.91	62.1	632	<20	<50	0.08	<1
A72856 (9675510)		<1	1.09	22	13	1.22	473	4.9	2.65	57.8	539	<20	<50	0.10	1
A72857 (9675511)		<1	1.06	28	15	1.61	541	5.4	3.12	57.0	666	<20	<50	0.14	<1
A72858 (9675512)		<1	1.06	26	15	1.58	535	5.3	3.17	51.2	620	<20	<50	0.14	<1
A72859 (9675513)		<1	1.24	27	15	1.76	624	5.3	3.24	55.6	658	<20	<50	0.13	1
A72860 (9675514)		<1	1.71	44	21	3.76	883	4.3	2.23	155	1300	<20	<50	0.21	2
A72861 (9675515)		<1	2.04	54	30	5.32	1050	3.1	1.81	221	1920	<20	<50	0.14	1

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018	DATE RECEIVED: Nov 01, 2018					DATE REPORTED: Dec 05, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72834 (9675488)	13	<10	<5	506	<10	<10	<5	0.31	<5	<50	101	2	9	67.2	
A72835 (9675489)	14	<10	<5	529	<10	<10	<5	0.34	<5	<50	108	1	10	68.9	
A72836 (9675490)	13	<10	<5	518	<10	<10	<5	0.34	<5	<50	102	2	11	69.7	
A72837 (9675491)	13	<10	<5	546	<10	<10	<5	0.33	<5	<50	102	2	12	67.7	
A72838 (9675492)	13	<10	<5	556	<10	<10	<5	0.33	<5	<50	101	<1	11	71.4	
A72839 (9675493)	13	<10	<5	503	<10	<10	<5	0.34	<5	<50	102	<1	11	70.7	
A72840 (9675494)	17	<10	<5	677	<10	<10	<5	0.40	<5	<50	129	2	14	83.3	
A72841 (9675495)	14	<10	<5	494	<10	<10	<5	0.34	<5	<50	108	2	12	66.4	
A72842 (9675496)	11	<10	<5	1140	<10	<10	<5	0.44	<5	<50	119	2	41	93.0	
A72843 (9675497)	13	<10	<5	541	<10	<10	<5	0.33	<5	<50	102	1	11	66.5	
A72844 (9675498)	14	<10	<5	572	<10	<10	<5	0.34	<5	<50	105	2	10	69.5	
A72845 (9675499)	11	<10	<5	447	<10	<10	<5	0.29	<5	<50	92.5	1	10	57.8	
A72846 (9675500)	34	<10	<5	241	<10	<10	<5	0.80	<5	<50	232	3	22	86.4	
A72847 (9675501)	13	<10	<5	522	<10	<10	<5	0.30	<5	<50	95.9	2	11	60.1	
A72848 (9675502)	14	<10	<5	455	<10	<10	<5	0.35	<5	<50	109	1	12	68.7	
A72849 (9675503)	14	<10	<5	447	<10	<10	<5	0.34	<5	<50	109	<1	12	68.9	
A72850 (9675504)	13	<10	<5	502	<10	<10	<5	0.32	<5	<50	95.3	2	11	57.4	
A72851 (9675505)	12	<10	<5	423	<10	<10	<5	0.31	<5	<50	92.5	2	10	56.5	
A72852 (9675506)	<1	<10	<5	71	<10	<10	<5	<0.01	<5	<50	1.8	<1	2	2.8	
A72853 (9675507)	14	<10	<5	540	<10	<10	<5	0.32	<5	<50	97.3	1	13	61.8	
A72854 (9675508)	12	<10	<5	554	<10	<10	<5	0.31	<5	<50	92.1	1	11	65.4	
A72855 (9675509)	11	<10	<5	563	<10	<10	<5	0.31	<5	<50	88.8	<1	11	65.1	
A72856 (9675510)	11	<10	<5	543	<10	<10	<5	0.27	<5	<50	87.8	1	9	60.0	
A72857 (9675511)	15	<10	<5	592	<10	<10	<5	0.34	<5	<50	116	2	12	63.2	
A72858 (9675512)	14	<10	<5	606	<10	<10	<5	0.32	<5	<50	110	1	11	65.6	
A72859 (9675513)	15	<10	<5	687	<10	<10	<5	0.36	<5	<50	117	<1	13	76.2	
A72860 (9675514)	17	<10	<5	755	<10	<10	<5	0.92	<5	<50	171	2	16	96.9	
A72861 (9675515)	18	<10	<5	886	<10	<10	<5	1.44	<5	<50	216	2	19	86.3	

Certified By:



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AGAT WORK ORDER: 18B405472

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 03, 2018      DATE RECEIVED: Nov 01, 2018      DATE REPORTED: Dec 05, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72834 (9675488)				98
A72835 (9675489)				99
A72836 (9675490)				100
A72837 (9675491)				104
A72838 (9675492)				103
A72839 (9675493)				99
A72840 (9675494)				96
A72841 (9675495)				98
A72842 (9675496)				279
A72843 (9675497)				97
A72844 (9675498)				92
A72845 (9675499)				96
A72846 (9675500)				88
A72847 (9675501)				95
A72848 (9675502)				91
A72849 (9675503)				88
A72850 (9675504)				92
A72851 (9675505)				95
A72852 (9675506)				<5
A72853 (9675507)				93
A72854 (9675508)				88
A72855 (9675509)				98
A72856 (9675510)				88
A72857 (9675511)				112
A72858 (9675512)				107
A72859 (9675513)				106
A72860 (9675514)				119
A72861 (9675515)				150

Comments: RDL - Reported Detection Limit  
9675488-9675515 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 03, 2018      DATE RECEIVED: Nov 01, 2018      DATE REPORTED: Dec 05, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A72834 (9675488)				0.021
A72835 (9675489)				0.005
A72836 (9675490)				0.005
A72837 (9675491)				0.006
A72838 (9675492)				0.007
A72839 (9675493)				0.008
A72840 (9675494)				0.004
A72841 (9675495)				0.008
A72842 (9675496)				0.007
A72843 (9675497)				0.004
A72844 (9675498)				0.008
A72845 (9675499)				0.004
A72846 (9675500)				0.323
A72847 (9675501)				0.004
A72848 (9675502)				0.003
A72849 (9675503)				0.005
A72850 (9675504)				0.003
A72851 (9675505)				0.032
A72852 (9675506)				<0.001
A72853 (9675507)				0.002
A72854 (9675508)				0.001
A72855 (9675509)				0.001
A72856 (9675510)				0.003
A72857 (9675511)				0.006
A72858 (9675512)				0.006
A72859 (9675513)				0.008
A72860 (9675514)				0.003
A72861 (9675515)				0.003

Comments: RDL - Reported Detection Limit

Certified By:





**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 03, 2018

DATE RECEIVED: Nov 01, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72840 (9675494)	81

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 03, 2018

DATE RECEIVED: Nov 01, 2018

DATE REPORTED: Dec 05, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72834 (9675488)	91.2

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9675488	< 0.5	< 0.5	0.0%	9675502	< 0.5	< 0.5	0.0%	9675513	< 0.5	< 0.5	0.0%				
Al	9675488	6.82	6.77	0.7%	9675502	6.80	6.70	1.5%	9675513	6.94	6.65	4.3%				
As	9675488	< 1	1	40.0%	9675502	< 1	< 1	0.0%	9675513	< 1	< 1	0.0%				
Ba	9675488	697	674	3.4%	9675502	658	651	1.1%	9675513	644	595	7.9%				
Be	9675488	1.4	1.5	6.9%	9675502	1.4	1.6	13.3%	9675513	1.75	1.64	6.5%				
Bi	9675488	< 1	2		9675502	1	< 1		9675513	3	2					
Ca	9675488	2.00	1.94	3.0%	9675502	2.48	2.46	0.8%	9675513	2.76	2.59	6.4%				
Cd	9675488	< 0.5	< 0.5	0.0%	9675502	< 0.5	< 0.5	0.0%	9675513	< 0.5	< 0.5	0.0%				
Ce	9675488	54	53	1.9%	9675502	49	50	2.0%	9675513	62	60	3.3%				
Co	9675488	16.0	16.5	3.1%	9675502	18.2	18.1	0.6%	9675513	18.0	18.0	0.0%				
Cr	9675488	67.6	71.4	5.5%	9675502	65.8	68.2	3.6%	9675513	82.3	79.4	3.6%				
Cu	9675488	33.0	31.3	5.3%	9675502	106	120	12.4%	9675513	41.0	39.0	5.0%				
Fe	9675488	3.31	3.39	2.4%	9675502	3.70	3.66	1.1%	9675513	3.90	3.74	4.2%				
Ga	9675488	31	28	10.2%	9675502	27	26	3.8%	9675513	30	28	6.9%				
In	9675488	< 1	< 1	0.0%	9675502	< 1	< 1	0.0%	9675513	< 1	< 1	0.0%				
K	9675488	1.69	1.67	1.2%	9675502	2.05	2.02	1.5%	9675513	1.24	1.18	5.0%				
La	9675488	24	24	0.0%	9675502	21	22	4.7%	9675513	27	27	0.0%				
Li	9675488	17	17	0.0%	9675502	17	17	0.0%	9675513	15	14	6.9%				
Mg	9675488	1.36	1.30	4.5%	9675502	1.34	1.31	2.3%	9675513	1.76	1.70	3.5%				
Mn	9675488	486	486	0.0%	9675502	586	577	1.5%	9675513	624	597	4.4%				
Mo	9675488	4.2	5.8	32.0%	9675502	5.6	6.2	10.2%	9675513	5.3	4.6	14.1%				
Na	9675488	2.72	2.65	2.6%	9675502	2.45	2.42	1.2%	9675513	3.24	3.00	7.7%				
Ni	9675488	58.6	53.6	8.9%	9675502	90	80.9	10.6%	9675513	55.6	53.9	3.1%				
P	9675488	591	601	1.7%	9675502	551	578	4.8%	9675513	658	639	2.9%				
Pb	9675488	< 20	< 20	0.0%	9675502	< 20	< 20	0.0%	9675513	< 20	< 20	0.0%				
Rb	9675488	< 50	< 50	0.0%	9675502	< 50	< 50	0.0%	9675513	< 50	< 50	0.0%				
S	9675488	0.10	0.10	0.0%	9675502	0.17	0.17	0.0%	9675513	0.13	0.13	0.0%				
Sb	9675488	< 1	< 1	0.0%	9675502	< 1	1		9675513	1	< 1					
Sc	9675488	13	13	0.0%	9675502	14	14	0.0%	9675513	15	15	0.0%				
Se	9675488	< 10	< 10	0.0%	9675502	< 10	< 10	0.0%	9675513	< 10	< 10	0.0%				
Sn	9675488	< 5	< 5	0.0%	9675502	< 5	< 5	0.0%	9675513	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9675488	506	501	1.0%	9675502	455	450	1.1%	9675513	687	628	9.0%				
Ta	9675488	< 10	< 10	0.0%	9675502	< 10	< 10	0.0%	9675513	< 10	< 10	0.0%				
Te	9675488	< 10	< 10	0.0%	9675502	< 10	< 10	0.0%	9675513	< 10	< 10	0.0%				
Th	9675488	< 5	< 5	0.0%	9675502	< 5	< 5	0.0%	9675513	< 5	< 5	0.0%				
Ti	9675488	0.31	0.31	0.0%	9675502	0.345	0.342	0.9%	9675513	0.360	0.345	4.3%				
Tl	9675488	< 5	< 5	0.0%	9675502	< 5	< 5	0.0%	9675513	< 5	< 5	0.0%				
U	9675488	< 50	< 50	0.0%	9675502	< 50	< 50	0.0%	9675513	< 50	< 50	0.0%				
V	9675488	101	98.5	2.5%	9675502	109	110	0.9%	9675513	117	112	4.4%				
W	9675488	2	2	0.0%	9675502	1	2		9675513	< 1	< 1	0.0%				
Y	9675488	9	9	0.0%	9675502	12	12	0.0%	9675513	13	12	8.0%				
Zn	9675488	67.2	64.8	3.6%	9675502	68.7	67.5	1.8%	9675513	76.2	76.9	0.9%				
Zr	9675488	98	97	1.0%	9675502	91	95	4.3%	9675513	106	100	5.8%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9675488	0.021	0.007		9675502	0.003	0.004	28.6%	9675513	0.008	0.006	28.6%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.32	94%	90% - 110%	8.17	7.9	97%	90% - 110%								
As					26	24	92%	90% - 110%								
Ba	340	332	98%	90% - 110%	540	518	96%	90% - 110%								
Be	2.6	2.7	103%	90% - 110%	4.0	3.9	99%	90% - 110%								
Ca	5.72	5.4	94%	90% - 110%	0.907	0.874	96%	90% - 110%								
Ce	122	123	100%	90% - 110%	98	100	102%	90% - 110%								
Cu					150	153	102%	90% - 110%								
Fe	4.34	3.98	92%	90% - 110%	3.77	3.6	95%	90% - 110%								
Ga	35	38	108%	90% - 110%												
K	1.37	1.41	103%	90% - 110%												
La	58	51	88%	90% - 110%	44	40	90%	90% - 110%								
Li	37	39	105%	90% - 110%	47	48	102%	90% - 110%								
Mg	0.325	0.284	87%	90% - 110%	1.10	1.03	93%	90% - 110%								
Mn					780	746	96%	90% - 110%								
Mo					14	13	94%	90% - 110%								
Na	5.267	5.193	99%	90% - 110%	1.624	1.653	102%	90% - 110%								
Ni	9	7	77%	90% - 110%	32	33	102%	90% - 110%								
P					750	688	92%	90% - 110%								
Pb					31	30	96%	90% - 110%								
Sb					0.8	0.9	118%	90% - 110%								
Sc					12	12	99%	90% - 110%								
Sr	1191	1176	99%	90% - 110%	144	153	106%	90% - 110%								
Ta	0.9	0.8	91%	90% - 110%												
Ti	0.172	0.165	96%	90% - 110%	0.53	0.48	90%	90% - 110%								
V					77	76	99%	90% - 110%								
W					5	4	89%	90% - 110%								
Y	119	120	101%	90% - 110%												
Zn	93	92	99%	90% - 110%	130	122	94%	90% - 110%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								



**AGAT** Laboratories

Quality Assurance - Certified Reference materials

AGAT WORK ORDER: 18B405472

PROJECT: AGAT00433

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Au	2.01	2.14	107%	90% - 110%	0.468	0.414	88%	90% - 110%								
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## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00433  
 SAMPLING SITE:

AGAT WORK ORDER: 18B405472  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00446

AGAT WORK ORDER: 18B408228

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Dec 24, 2018

PAGES (INCLUDING COVER): 14

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Nov 11, 2018      DATE RECEIVED: Nov 08, 2018      DATE REPORTED: Dec 24, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72862 (9694816)		2.22
A72863 (9694817)		2.31
A72864 (9694818)		2.45
A72865 (9694819)		2.42
A72866 (9694820)		0.10
A72867 (9694821)		2.23
A72868 (9694822)		2.23
A72869 (9694823)		2.34
A72870 (9694824)		2.60
A72871 (9694825)		2.45
A72872 (9694826)		1.66
A72873 (9694827)		2.43
A72874 (9694828)		2.21
A72875 (9694829)		2.37
A72876 (9694830)		2.37
A72877 (9694831)		2.24
A72878 (9694832)		2.24
A72879 (9694833)		2.41
A72880 (9694834)		2.54
A72881 (9694835)		2.36
A72882 (9694836)		2.30
A72883 (9694837)		2.36
A72884 (9694838)		1.57

Comments: RDL - Reported Detection Limit

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 11, 2018	DATE RECEIVED: Nov 08, 2018							DATE REPORTED: Dec 24, 2018				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72862 (9694816)	<0.5	7.25	2	1290	2.6	<1	3.29	<0.5	97	17.5	255	27.4	3.82	30	
A72863 (9694817)	<0.5	7.25	<1	1570	2.7	<1	3.46	<0.5	104	17.5	232	29.4	3.83	32	
A72864 (9694818)	<0.5	7.25	3	1620	4.8	<1	3.46	<0.5	107	18.3	232	25.3	3.94	32	
A72865 (9694819)	<0.5	7.23	2	1580	4.3	<1	3.14	<0.5	104	19.1	241	33.7	3.79	32	
A72866 (9694820)	<0.5	7.31	<1	193	1.7	7	6.28	<0.5	17	38.7	194	103	7.50	36	
A72867 (9694821)	<0.5	7.26	3	1650	4.1	<1	3.40	<0.5	105	17.1	238	31.3	3.89	31	
A72868 (9694822)	<0.5	7.18	<1	1470	3.3	<1	3.28	<0.5	107	17.9	244	31.1	3.89	31	
A72869 (9694823)	<0.5	6.98	<1	1660	2.8	<1	3.09	<0.5	107	17.9	232	42.3	3.71	32	
A72870 (9694824)	<0.5	7.26	2	1680	3.9	<1	3.58	<0.5	106	17.5	246	36.3	3.87	30	
A72871 (9694825)	<0.5	7.02	3	1530	3.4	<1	3.72	<0.5	106	17.8	245	15.2	3.75	32	
A72872 (9694826)	<0.5	0.10	<1	23	<0.5	<1	29.5	<0.5	<1	0.9	9.1	<0.5	0.16	15	
A72873 (9694827)	<0.5	6.88	3	1480	2.6	<1	4.35	<0.5	98	16.9	234	24.4	3.68	30	
A72874 (9694828)	<0.5	7.18	<1	1480	2.8	<1	3.54	<0.5	103	18.3	229	50.3	3.84	30	
A72875 (9694829)	<0.5	7.17	4	1480	2.8	<1	3.31	<0.5	105	18.1	244	30.6	3.82	32	
A72876 (9694830)	<0.5	7.22	<1	1540	3.0	<1	3.62	<0.5	110	18.9	272	27.3	3.99	32	
A72877 (9694831)	<0.5	6.91	3	1510	2.8	<1	4.08	<0.5	108	19.4	298	37.7	3.94	33	
A72878 (9694832)	<0.5	6.70	4	1470	2.6	<1	3.94	<0.5	105	19.1	279	33.9	3.81	29	
A72879 (9694833)	<0.5	6.70	2	1510	2.9	<1	3.83	<0.5	110	20.4	332	33.8	4.02	30	
A72880 (9694834)	<0.5	5.40	<1	1070	2.1	<1	2.57	<0.5	77	14.8	211	29.4	3.06	30	
A72881 (9694835)	<0.5	7.03	2	1490	2.7	<1	4.01	<0.5	105	20.3	294	37.4	4.05	34	
A72882 (9694836)	<0.5	7.19	<1	1570	2.8	<1	4.00	<0.5	104	20.3	295	26.0	4.08	34	
A72883 (9694837)	<0.5	7.21	4	1520	2.7	<1	3.32	<0.5	99	16.1	171	45.0	3.66	32	
A72884 (9694838)	<0.5	7.14	1	1380	3.4	<1	3.04	<0.5	100	16.8	171	28.0	3.80	31	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 11, 2018	DATE RECEIVED: Nov 08, 2018					DATE REPORTED: Dec 24, 2018					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72862 (9694816)	<1	2.65	44	24	2.81	694	2.7	3.16	85.5	1390	<20	<50	0.01	1	
A72863 (9694817)	<1	2.88	47	24	2.67	667	4.4	3.34	83.4	1440	21	<50	0.02	<1	
A72864 (9694818)	<1	2.82	47	38	2.81	683	4.2	3.37	90.8	1490	21	<50	0.01	3	
A72865 (9694819)	<1	2.88	48	33	2.71	624	3.5	3.50	87.3	1480	21	<50	0.02	<1	
A72866 (9694820)	<1	0.45	9	10	4.17	1300	<0.5	2.33	109	874	<20	<50	0.08	6	
A72867 (9694821)	<1	2.91	49	30	2.85	678	3.4	3.47	84.7	1440	<20	<50	0.01	1	
A72868 (9694822)	<1	2.80	49	25	2.94	725	4.1	3.44	85.8	1460	<20	<50	0.02	<1	
A72869 (9694823)	<1	2.90	50	28	2.90	670	3.8	3.28	83.1	1460	21	<50	0.03	<1	
A72870 (9694824)	<1	2.93	49	30	2.80	667	3.2	3.36	85.9	1470	21	<50	0.02	<1	
A72871 (9694825)	<1	2.40	50	26	2.84	721	5.8	3.21	86.9	1510	<20	<50	0.01	1	
A72872 (9694826)	<1	0.03	3	1	3.08	82	1.5	0.06	1.0	95	<20	<50	0.02	<1	
A72873 (9694827)	<1	2.69	46	23	2.83	645	2.3	3.09	82.9	1430	21	<50	0.02	<1	
A72874 (9694828)	<1	2.80	48	25	2.77	666	2.0	3.19	87.2	1530	23	<50	0.03	2	
A72875 (9694829)	<1	2.94	49	26	2.84	659	3.1	3.18	88.7	1560	<20	<50	0.02	<1	
A72876 (9694830)	<1	3.05	51	26	3.03	713	3.3	3.26	97.6	1540	<20	<50	0.01	2	
A72877 (9694831)	<1	2.71	50	25	3.02	733	3.0	3.24	107	1650	20	<50	0.02	<1	
A72878 (9694832)	<1	2.61	48	24	2.90	712	3.6	3.15	102	1630	<20	<50	0.02	<1	
A72879 (9694833)	<1	2.86	50	26	3.44	734	2.7	2.94	117	1640	<20	<50	0.02	1	
A72880 (9694834)	<1	2.10	35	18	2.40	525	2.1	2.25	82.8	1080	<20	<50	0.01	1	
A72881 (9694835)	<1	2.70	49	24	3.30	740	3.1	3.05	112	1550	23	<50	0.01	<1	
A72882 (9694836)	<1	2.54	48	23	3.32	741	2.9	3.10	112	1530	24	<50	0.01	2	
A72883 (9694837)	<1	2.29	47	23	2.48	692	5.2	3.18	68.8	1370	22	<50	0.08	2	
A72884 (9694838)	<1	2.20	45	31	2.40	639	3.1	3.15	65.7	1360	<20	<50	0.04	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 11, 2018

DATE RECEIVED: Nov 08, 2018

DATE REPORTED: Dec 24, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sc ppm 1	Se ppm 10	Sn ppm 5	Sr ppm 1	Ta ppm 10	Te ppm 10	Th ppm 5	Ti % 0.01	Tl ppm 5	U ppm 50	V ppm 0.5	W ppm 1	Y ppm 1	Zn ppm 0.5
A72862 (9694816)		14	<10	<5	1030	<10	<10	<5	0.33	<5	<50	102	2	28	66.5
A72863 (9694817)		13	<10	<5	1340	<10	<10	<5	0.32	<5	<50	100	3	28	70.1
A72864 (9694818)		15	<10	<5	1270	<10	<10	<5	0.32	<5	<50	115	2	31	72.5
A72865 (9694819)		15	<10	<5	1280	<10	<10	<5	0.31	<5	<50	106	3	30	68.1
A72866 (9694820)		34	<10	<5	241	<10	<10	<5	0.80	<5	<50	247	3	22	85.7
A72867 (9694821)		14	<10	<5	1240	<10	<10	<5	0.32	<5	<50	109	3	29	67.4
A72868 (9694822)		14	<10	<5	1100	<10	<10	<5	0.31	<5	<50	103	4	29	69.0
A72869 (9694823)		13	<10	<5	1350	<10	<10	<5	0.31	<5	<50	96.5	1	27	67.6
A72870 (9694824)		14	<10	<5	1510	<10	<10	<5	0.32	<5	<50	104	2	29	71.2
A72871 (9694825)		14	<10	<5	1490	<10	<10	<5	0.32	<5	<50	100	4	29	68.7
A72872 (9694826)		<1	<10	<5	68	<10	<10	<5	<0.01	<5	<50	1.9	<1	2	3.1
A72873 (9694827)		13	<10	5	1310	<10	<10	<5	0.31	<5	<50	94.9	3	26	66.7
A72874 (9694828)		14	<10	<5	1150	<10	<10	<5	0.32	<5	<50	100	3	27	68.6
A72875 (9694829)		13	<10	<5	1140	<10	<10	<5	0.33	<5	<50	101	2	29	67.8
A72876 (9694830)		14	<10	<5	1110	<10	<10	<5	0.33	<5	<50	105	3	28	70.1
A72877 (9694831)		14	<10	<5	1020	<10	<10	<5	0.32	<5	<50	106	2	31	73.4
A72878 (9694832)		14	<10	<5	1000	<10	<10	<5	0.31	<5	<50	101	3	29	69.1
A72879 (9694833)		15	<10	5	1110	<10	<10	<5	0.34	<5	<50	106	1	30	73.7
A72880 (9694834)		11	<10	<5	818	<10	<10	<5	0.26	<5	<50	78.2	2	21	54.1
A72881 (9694835)		14	<10	<5	1230	<10	<10	<5	0.34	<5	<50	107	3	29	73.8
A72882 (9694836)		14	<10	<5	1450	<10	<10	<5	0.35	<5	<50	105	3	29	71.9
A72883 (9694837)		13	<10	<5	1040	<10	<10	<5	0.31	<5	<50	98.0	3	27	68.9
A72884 (9694838)		14	<10	<5	978	<10	<10	<5	0.31	<5	<50	108	3	27	67.7

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 11, 2018      DATE RECEIVED: Nov 08, 2018      DATE REPORTED: Dec 24, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72862 (9694816)				157
A72863 (9694817)				171
A72864 (9694818)				179
A72865 (9694819)				177
A72866 (9694820)				96
A72867 (9694821)				178
A72868 (9694822)				167
A72869 (9694823)				169
A72870 (9694824)				175
A72871 (9694825)				170
A72872 (9694826)				<5
A72873 (9694827)				164
A72874 (9694828)				172
A72875 (9694829)				176
A72876 (9694830)				179
A72877 (9694831)				186
A72878 (9694832)				183
A72879 (9694833)				175
A72880 (9694834)				126
A72881 (9694835)				172
A72882 (9694836)				174
A72883 (9694837)				171
A72884 (9694838)				176

Comments: RDL - Reported Detection Limit  
 9694816-9694838 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 11, 2018      DATE RECEIVED: Nov 08, 2018      DATE REPORTED: Dec 24, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72862 (9694816)			0.004
A72863 (9694817)			0.001
A72864 (9694818)			0.001
A72865 (9694819)			0.001
A72866 (9694820)			0.348
A72867 (9694821)			0.001
A72868 (9694822)			0.001
A72869 (9694823)			0.006
A72870 (9694824)			0.006
A72871 (9694825)			0.011
A72872 (9694826)			0.001
A72873 (9694827)			0.010
A72874 (9694828)			0.014
A72875 (9694829)			0.002
A72876 (9694830)			0.001
A72877 (9694831)			0.009
A72878 (9694832)			0.010
A72879 (9694833)			0.003
A72880 (9694834)			0.002
A72881 (9694835)			0.006
A72882 (9694836)			0.014
A72883 (9694837)			0.025
A72884 (9694838)			0.012

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 11, 2018

DATE RECEIVED: Nov 08, 2018

DATE REPORTED: Dec 24, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72879 (9694833)	82

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B408228

PROJECT: AGAT00446

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 11, 2018

DATE RECEIVED: Nov 08, 2018

DATE REPORTED: Dec 24, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72862 (9694816)	97.8

Comments: RDL - Reported Detection Limit

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9694816	< 0.5	< 0.5	0.0%	9694831	< 0.5	< 0.5	0.0%	9694838	< 0.5	< 0.5	0.0%				
Al	9694816	7.25	7.22	0.4%	9694831	6.91	6.77	2.0%	9694838	7.14	7.29	2.1%				
As	9694816	2	2	0.0%	9694831	3	4	28.6%	9694838	1	< 1					
Ba	9694816	1290	1400	8.2%	9694831	1510	1470	2.7%	9694838	1380	1480	7.0%				
Be	9694816	2.6	2.6	0.0%	9694831	2.8	2.8	0.0%	9694838	3.4	3.2	6.1%				
Bi	9694816	< 1	< 1	0.0%	9694831	< 1	< 1	0.0%	9694838	< 1	< 1	0.0%				
Ca	9694816	3.29	3.49	5.9%	9694831	4.08	3.96	3.0%	9694838	3.04	3.16	3.9%				
Cd	9694816	< 0.5	< 0.5	0.0%	9694831	< 0.5	< 0.5	0.0%	9694838	< 0.5	< 0.5	0.0%				
Ce	9694816	97	105	7.9%	9694831	108	108	0.0%	9694838	100	97	3.0%				
Co	9694816	17.5	17.2	1.7%	9694831	19.4	19.4	0.0%	9694838	16.8	16.8	0.0%				
Cr	9694816	255	273	6.8%	9694831	298	291	2.4%	9694838	171	180	5.1%				
Cu	9694816	27.4	29.4	7.0%	9694831	37.7	37.4	0.8%	9694838	28.0	27.1	3.3%				
Fe	9694816	3.82	3.95	3.3%	9694831	3.94	3.86	2.1%	9694838	3.80	3.74	1.6%				
Ga	9694816	30	32	6.5%	9694831	33	31	6.3%	9694838	31	30	3.3%				
In	9694816	< 1	< 1	0.0%	9694831	< 1	< 1	0.0%	9694838	< 1	< 1	0.0%				
K	9694816	2.65	2.76	4.1%	9694831	2.71	2.66	1.9%	9694838	2.20	2.26	2.7%				
La	9694816	44	47	6.6%	9694831	50	49	2.0%	9694838	45	45	0.0%				
Li	9694816	24	24	0.0%	9694831	25	25	0.0%	9694838	31	31	0.0%				
Mg	9694816	2.81	2.88	2.5%	9694831	3.02	2.94	2.7%	9694838	2.40	2.43	1.2%				
Mn	9694816	694	716	3.1%	9694831	733	718	2.1%	9694838	639	630	1.4%				
Mo	9694816	2.7	3.1	13.8%	9694831	3.04	3.56	15.8%	9694838	3.1	2.5	21.4%				
Na	9694816	3.16	3.30	4.3%	9694831	3.24	3.16	2.5%	9694838	3.15	3.34	5.9%				
Ni	9694816	85.5	86.8	1.5%	9694831	107	105	1.9%	9694838	65.7	64.1	2.5%				
P	9694816	1390	1460	4.9%	9694831	1650	1630	1.2%	9694838	1360	1330	2.2%				
Pb	9694816	< 20	< 20	0.0%	9694831	20	19	5.1%	9694838	< 20	< 20	0.0%				
Rb	9694816	< 50	< 50	0.0%	9694831	< 50	< 50	0.0%	9694838	< 50	< 50	0.0%				
S	9694816	0.01	0.01	0.0%	9694831	0.02	0.02	0.0%	9694838	0.036	0.033	8.7%				
Sb	9694816	1	< 1		9694831	< 1	2		9694838	< 1	< 1	0.0%				
Sc	9694816	14	14	0.0%	9694831	14	14	0.0%	9694838	14	14	0.0%				
Se	9694816	< 10	< 10	0.0%	9694831	< 10	< 10	0.0%	9694838	< 10	< 10	0.0%				
Sn	9694816	< 5	< 5	0.0%	9694831	< 5	< 5	0.0%	9694838	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9694816	1030	1070	3.8%	9694831	1020	1030	1.0%	9694838	978	1010	3.2%				
Ta	9694816	< 10	< 10	0.0%	9694831	< 10	< 10	0.0%	9694838	< 10	< 10	0.0%				
Te	9694816	< 10	< 10	0.0%	9694831	< 10	< 10	0.0%	9694838	< 10	< 10	0.0%				
Th	9694816	< 5	< 5	0.0%	9694831	< 5	< 5	0.0%	9694838	< 5	< 5	0.0%				
Ti	9694816	0.33	0.33	0.0%	9694831	0.323	0.314	2.8%	9694838	0.312	0.316	1.3%				
Tl	9694816	< 5	< 5	0.0%	9694831	< 5	< 5	0.0%	9694838	< 5	< 5	0.0%				
U	9694816	< 50	< 50	0.0%	9694831	< 50	< 50	0.0%	9694838	< 50	< 50	0.0%				
V	9694816	102	101	1.0%	9694831	106	103	2.9%	9694838	108	107	0.9%				
W	9694816	2	3		9694831	2	2	0.0%	9694838	3	2					
Y	9694816	28	29	3.5%	9694831	31	29	6.7%	9694838	27	26	3.8%				
Zn	9694816	66.5	69.3	4.1%	9694831	73.4	72.3	1.5%	9694838	67.7	68.3	0.9%				
Zr	9694816	157	168	6.8%	9694831	186	175	6.1%	9694838	176	170	3.5%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	9694816	0.004	0.004	0.0%	9694831	0.009	0.014		9694838	0.012	0.014	15.4%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.91	100%	90% - 110%	8.17	8.23	101%	90% - 110%								
As					26	23	87%	90% - 110%								
Ba	340	329	97%	90% - 110%	540	524	97%	90% - 110%								
Be	2.6	2.9	113%	90% - 110%	4.0	4.3	107%	90% - 110%								
Ca	5.72	5.58	98%	90% - 110%	0.907	0.888	98%	90% - 110%								
Ce	122	116	95%	90% - 110%	98	97	99%	90% - 110%								
Cr					60.3	62.2	103%	90% - 110%								
Cu	7	6	82%	90% - 110%	150	151	100%	90% - 110%								
Fe	4.34	4.03	93%	90% - 110%	3.77	3.65	97%	90% - 110%								
Ga	35	35	101%	90% - 110%												
K	1.37	1.46	107%	90% - 110%												
La	58	53	92%	90% - 110%	44	43	97%	90% - 110%								
Li	37	38	103%	90% - 110%	47	46	98%	90% - 110%								
Mg	0.325	0.305	94%	90% - 110%	1.10	1.07	98%	90% - 110%								
Mn					780	755	97%	90% - 110%								
Mo					14	13	95%	90% - 110%								
Na	5.267	5.497	104%	90% - 110%	1.624	1.699	105%	90% - 110%								
Ni					32	33	104%	90% - 110%								
P					750	751	100%	90% - 110%								
Pb					31	32	104%	90% - 110%								
Sb					0.8	0.9	117%	90% - 110%								
Sc					12	13	105%	90% - 110%								
Sr	1191	1165	98%	90% - 110%	144	149	104%	90% - 110%								
Ta					1.9	1.5	77%	90% - 110%								
Ti	0.172	0.159	92%	90% - 110%	0.53	0.46	86%	90% - 110%								
V	8	6	73%	90% - 110%	77	82	107%	90% - 110%								
W					5	6	110%	90% - 110%								
Y	119	123	103%	90% - 110%												
Zn	93	92	99%	90% - 110%	130	123	95%	90% - 110%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.12	106%	90% - 110%	0.468	0.511	109%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00446  
 SAMPLING SITE:

AGAT WORK ORDER: 18B408228  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00457

AGAT WORK ORDER: 18B410023

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Dec 12, 2018

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Nov 15, 2018

DATE RECEIVED: Nov 13, 2018

DATE REPORTED: Dec 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72885 (9706412)		3.29
A72886 (9706413)		0.10
A72887 (9706414)		2.96
A72888 (9706415)		3.23
A72889 (9706416)		3.00
A72890 (9706417)		3.12
A72891 (9706418)		3.44
A72892 (9706419)		1.62
A72893 (9706420)		3.26
A72894 (9706421)		3.74
A72895 (9706422)		2.44
A72896 (9706423)		3.15
A72897 (9706424)		1.91
A72898 (9706425)		1.91
A72899 (9706426)		1.33
A72900 (9706427)		3.36
A72901 (9706428)		3.30
A72902 (9706429)		1.74
A72903 (9706430)		2.58

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 15, 2018	DATE RECEIVED: Nov 13, 2018					DATE REPORTED: Dec 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A72885 (9706412)	<0.5	7.30	<1	517	1.0	3	2.70	<0.5	49	15.5	60.9	27.6	3.69	15	
A72886 (9706413)	<0.5	7.33	<1	181	<0.5	5	6.15	<0.5	16	35.4	153	102	8.07	24	
A72887 (9706414)	<0.5	7.34	<1	804	1.2	3	2.86	<0.5	57	16.5	77.5	45.5	3.98	17	
A72888 (9706415)	<0.5	7.25	<1	546	1.1	4	2.73	<0.5	47	18.4	80.9	12.5	4.17	17	
A72889 (9706416)	<0.5	7.81	<1	892	1.5	5	2.88	<0.5	59	13.6	76.6	36.2	3.38	18	
A72890 (9706417)	<0.5	7.66	<1	913	1.5	4	2.73	<0.5	57	13.7	75.8	12.4	3.27	17	
A72891 (9706418)	<0.5	7.29	<1	804	1.1	2	2.74	<0.5	55	14.7	96.5	26.0	3.36	17	
A72892 (9706419)	<0.5	0.15	2	23	<0.5	<1	27.9	<0.5	<1	0.6	3.5	<0.5	0.19	<5	
A72893 (9706420)	<0.5	7.11	<1	796	1.1	<1	3.59	<0.5	53	13.9	90.5	19.8	3.05	16	
A72894 (9706421)	<0.5	7.77	<1	848	1.8	3	3.10	<0.5	57	14.1	75.1	25.1	3.25	17	
A72895 (9706422)	<0.5	7.61	<1	954	1.1	2	3.35	<0.5	54	13.4	76.8	9.2	3.24	17	
A72896 (9706423)	<0.5	7.39	<1	659	1.0	2	2.82	<0.5	51	16.5	68.2	27.7	3.82	16	
A72897 (9706424)	<0.5	7.03	<1	544	0.9	6	2.99	<0.5	48	17.7	82.5	37.0	4.21	16	
A72898 (9706425)	<0.5	7.04	<1	544	0.9	3	3.06	<0.5	47	17.0	84.3	37.0	4.32	16	
A72899 (9706426)	<0.5	5.26	<1	551	0.8	1	2.48	<0.5	35	12.1	60.2	24.8	2.95	11	
A72900 (9706427)	<0.5	7.47	<1	674	1.0	4	2.97	<0.5	51	17.1	90.4	32.5	4.08	17	
A72901 (9706428)	<0.5	7.14	<1	619	1.0	3	3.07	<0.5	49	16.0	89.3	37.3	3.78	16	
A72902 (9706429)	<0.5	7.63	<1	792	1.1	4	2.63	<0.5	49	15.0	65.8	39.5	3.70	17	
A72903 (9706430)	<0.5	7.36	<1	649	1.2	4	2.48	<0.5	53	17.2	73.8	37.8	4.02	16	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 15, 2018

DATE RECEIVED: Nov 13, 2018

DATE REPORTED: Dec 12, 2018

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Rb ppm	S %	Sb ppm
		1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1
A72885 (9706412)		<1	1.45	24	26	1.41	559	7.8	2.43	45.5	586	<20	<50	0.09	5
A72886 (9706413)		<1	0.43	9	12	4.21	1330	2.4	2.36	104	861	<20	<50	0.09	4
A72887 (9706414)		<1	1.87	27	26	1.62	548	6.9	2.24	50.8	615	<20	<50	0.12	3
A72888 (9706415)		<1	1.76	23	31	1.69	610	6.0	2.54	52.0	607	<20	<50	0.04	4
A72889 (9706416)		<1	1.77	28	30	2.10	484	6.2	3.34	67.5	917	<20	<50	0.24	4
A72890 (9706417)		<1	1.72	27	27	2.11	509	5.3	3.63	66.6	761	<20	<50	0.06	4
A72891 (9706418)		<1	1.36	27	22	2.18	506	7.1	3.66	74.7	700	<20	<50	0.26	5
A72892 (9706419)		<1	0.03	2	2	2.64	142	1.7	0.08	1.3	66	<20	<50	0.12	2
A72893 (9706420)		<1	1.37	26	25	2.12	459	4.0	3.52	69.9	727	<20	<50	0.13	3
A72894 (9706421)		<1	1.52	27	26	2.04	479	4.9	3.61	69.6	742	<20	<50	0.12	5
A72895 (9706422)		<1	2.18	26	23	1.83	525	5.0	2.89	59.1	714	<20	<50	0.03	4
A72896 (9706423)		<1	2.19	25	29	1.55	530	6.5	2.52	52.2	665	<20	<50	0.06	2
A72897 (9706424)		<1	1.87	24	28	1.49	621	6.9	2.20	51.6	655	<20	<50	0.11	3
A72898 (9706425)		<1	1.87	23	28	1.50	630	7.5	2.24	50.8	638	<20	<50	0.11	4
A72899 (9706426)		<1	1.51	17	23	1.06	430	7.1	1.49	38.0	412	<20	<50	0.10	3
A72900 (9706427)		<1	1.97	25	33	1.72	585	7.3	2.25	54.9	625	<20	<50	0.14	4
A72901 (9706428)		<1	1.97	25	28	1.55	574	7.4	2.22	51.5	618	<20	<50	0.11	2
A72902 (9706429)		<1	2.05	24	28	1.43	548	7.5	2.53	44.2	599	<20	<50	0.16	<1
A72903 (9706430)		<1	1.81	25	35	1.61	600	6.0	2.93	51.5	657	<20	<50	0.15	4

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 15, 2018	DATE RECEIVED: Nov 13, 2018					DATE REPORTED: Dec 12, 2018					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72885 (9706412)	14	<10	<5	519	16	<10	7	0.31	<5	<50	101	<1	11	63.9	
A72886 (9706413)	34	<10	<5	255	14	<10	<5	0.84	<5	<50	236	2	23	87.4	
A72887 (9706414)	16	<10	<5	530	17	<10	10	0.35	<5	<50	114	<1	14	74.0	
A72888 (9706415)	17	<10	<5	434	17	<10	7	0.35	<5	<50	121	1	13	72.1	
A72889 (9706416)	11	<10	<5	851	16	<10	9	0.29	<5	<50	81.4	<1	16	56.0	
A72890 (9706417)	11	<10	<5	702	14	<10	9	0.28	<5	<50	82.2	<1	12	55.6	
A72891 (9706418)	11	<10	<5	729	14	<10	9	0.24	<5	<50	81.5	1	10	62.7	
A72892 (9706419)	<1	<10	<5	73	<10	<10	<5	<0.01	<5	<50	1.6	<1	2	3.6	
A72893 (9706420)	10	<10	<5	760	14	<10	10	0.25	<5	<50	73.1	<1	11	54.9	
A72894 (9706421)	11	<10	<5	811	15	<10	9	0.27	<5	<50	78.7	1	13	59.0	
A72895 (9706422)	11	<10	<5	865	14	<10	8	0.28	<5	<50	80.2	<1	11	56.2	
A72896 (9706423)	14	<10	<5	482	17	<10	8	0.35	<5	<50	103	<1	13	65.2	
A72897 (9706424)	16	<10	<5	450	17	<10	6	0.36	<5	<50	117	2	13	73.2	
A72898 (9706425)	16	<10	<5	467	19	<10	6	0.37	<5	<50	116	1	13	73.7	
A72899 (9706426)	10	<10	<5	449	14	<10	6	0.26	<5	<50	82.4	2	10	52.0	
A72900 (9706427)	15	<10	<5	555	17	<10	7	0.36	<5	<50	111	<1	13	71.0	
A72901 (9706428)	14	<10	<5	502	18	<10	8	0.34	<5	<50	107	<1	13	66.8	
A72902 (9706429)	14	<10	<5	532	17	<10	7	0.32	<5	<50	105	<1	12	64.3	
A72903 (9706430)	15	<10	<5	577	17	<10	8	0.33	<5	<50	108	1	13	72.3	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

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 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 15, 2018      DATE RECEIVED: Nov 13, 2018      DATE REPORTED: Dec 12, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72885 (9706412)				98
A72886 (9706413)				93
A72887 (9706414)				102
A72888 (9706415)				98
A72889 (9706416)				106
A72890 (9706417)				104
A72891 (9706418)				103
A72892 (9706419)				<5
A72893 (9706420)				99
A72894 (9706421)				107
A72895 (9706422)				97
A72896 (9706423)				99
A72897 (9706424)				92
A72898 (9706425)				92
A72899 (9706426)				67
A72900 (9706427)				94
A72901 (9706428)				93
A72902 (9706429)				97
A72903 (9706430)				104

Comments: RDL - Reported Detection Limit  
 9706412-9706430 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 15, 2018      DATE RECEIVED: Nov 13, 2018      DATE REPORTED: Dec 12, 2018      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72885 (9706412)			0.004
A72886 (9706413)			0.328
A72887 (9706414)			0.009
A72888 (9706415)			0.004
A72889 (9706416)			0.018
A72890 (9706417)			0.005
A72891 (9706418)			0.006
A72892 (9706419)			0.001
A72893 (9706420)			0.005
A72894 (9706421)			0.005
A72895 (9706422)			0.003
A72896 (9706423)			0.005
A72897 (9706424)			0.006
A72898 (9706425)			0.006
A72899 (9706426)			0.005
A72900 (9706427)			0.009
A72901 (9706428)			0.008
A72902 (9706429)			0.015
A72903 (9706430)			0.015

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 15, 2018

DATE RECEIVED: Nov 13, 2018

DATE REPORTED: Dec 12, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72893 (9706420)	78

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 18B410023

PROJECT: AGAT00457

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 15, 2018

DATE RECEIVED: Nov 13, 2018

DATE REPORTED: Dec 12, 2018

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72885 (9706412)	96

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9706412	< 0.5	< 0.5	0.0%	9706427	< 0.5	< 0.5	0.0%								
Al	9706412	7.30	7.37	1.0%	9706427	7.47	7.29	2.4%								
As	9706412	< 1	< 1	0.0%	9706427	< 1	< 1	0.0%								
Ba	9706412	517	542	4.7%	9706427	674	668	0.9%								
Be	9706412	1.0	1.0	0.0%	9706427	1.0	1.0	0.0%								
Bi	9706412	3	2	40.0%	9706427	4	2									
Ca	9706412	2.70	2.63	2.6%	9706427	2.97	2.96	0.3%								
Cd	9706412	< 0.5	< 0.5	0.0%	9706427	< 0.5	< 0.5	0.0%								
Ce	9706412	49	47	4.2%	9706427	51	52	1.9%								
Co	9706412	15.5	15.9	2.5%	9706427	17.1	17.4	1.7%								
Cr	9706412	60.9	54.6	10.9%	9706427	90.4	96.6	6.6%								
Cu	9706412	27.6	26.6	3.7%	9706427	32.5	32.3	0.6%								
Fe	9706412	3.69	3.72	0.8%	9706427	4.08	4.05	0.7%								
Ga	9706412	15	16	6.5%	9706427	17	16	6.1%								
In	9706412	< 1	< 1	0.0%	9706427	< 1	< 1	0.0%								
K	9706412	1.45	1.53	5.4%	9706427	1.97	1.94	1.5%								
La	9706412	24	23	4.3%	9706427	25	26	3.9%								
Li	9706412	26	27	3.8%	9706427	33	44	28.6%								
Mg	9706412	1.41	1.45	2.8%	9706427	1.72	1.70	1.2%								
Mn	9706412	559	545	2.5%	9706427	585	581	0.7%								
Mo	9706412	7.76	6.62	15.9%	9706427	7.3	7.3	0.0%								
Na	9706412	2.43	2.46	1.2%	9706427	2.25	2.24	0.4%								
Ni	9706412	45.5	45.9	0.9%	9706427	54.9	55.3	0.7%								
P	9706412	586	568	3.1%	9706427	625	622	0.5%								
Pb	9706412	< 20	< 20	0.0%	9706427	< 20	< 20	0.0%								
Rb	9706412	< 50	< 50	0.0%	9706427	< 50	< 50	0.0%								
S	9706412	0.09	0.09	0.0%	9706427	0.14	0.14	0.0%								
Sb	9706412	5	4	22.2%	9706427	4	2									
Sc	9706412	14	14	0.0%	9706427	15	15	0.0%								
Se	9706412	< 10	< 10	0.0%	9706427	< 10	< 10	0.0%								
Sn	9706412	< 5	< 5	0.0%	9706427	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9706412	519	529	1.9%	9706427	555	557	0.4%										
Ta	9706412	16	16	0.0%	9706427	17	18	5.7%										
Te	9706412	< 10	< 10	0.0%	9706427	< 10	< 10	0.0%										
Th	9706412	7	7	0.0%	9706427	7	8	13.3%										
Ti	9706412	0.314	0.324	3.1%	9706427	0.355	0.353	0.6%										
Tl	9706412	< 5	< 5	0.0%	9706427	< 5	< 5	0.0%										
U	9706412	< 50	< 50	0.0%	9706427	< 50	< 50	0.0%										
V	9706412	101	103	2.0%	9706427	111	111	0.0%										
W	9706412	< 1	< 1	0.0%	9706427	< 1	< 1	0.0%										
Y	9706412	11	11	0.0%	9706427	13	13	0.0%										
Zn	9706412	63.9	66.7	4.3%	9706427	71.0	70.7	0.4%										
Zr	9706412	98	95	3.1%	9706427	94	99	5.2%										
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																		
	REPLICATE #1				REPLICATE #2													
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Au	9706412	0.004	0.003	28.6%	9706427	0.009	0.007	25.0%										





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)													
	Expect	Actual	Recovery	Limits										
Al	10.95	11.05	101%	90% - 110%										
Ba	340	327	96%	90% - 110%										
Be	2.6	2.6	101%	90% - 110%										
Ca	5.72	5.4	94%	90% - 110%										
Ce	122	115	94%	90% - 110%										
Fe	4.34	4.33	100%	90% - 110%										
Ga	35	34	97%	90% - 110%										
K	1.37	1.46	106%	90% - 110%										
La	58	55	95%	90% - 110%										
Li	37	44	119%	90% - 110%										
Mg	0.325	0.298	92%	90% - 110%										
Na	5.267	5.305	101%	90% - 110%										
Sc	1.1	1	94%	90% - 110%										
Sr	1191	1200	101%	90% - 110%										
Th	1.4	1.2	83%	90% - 110%										
Ti	0.172	0.164	96%	90% - 110%										
Y	119	128	108%	90% - 110%										
Zn	93	90	97%	90% - 110%										

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)													
	Expect	Actual	Recovery	Limits										
Au	2.01	1.81	90%	90% - 110%										



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00457  
 SAMPLING SITE:

AGAT WORK ORDER: 18B410023  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE

LABJOBNO	PROJECTCODE	SAMPLEID	AGAT Sample	RETURNDATE	Au_AA_ppm
		AGAT CODE			202551
		METHOD CODE			AA
		ANALYTE			Au
		UNITS			ppm
		DETECTION LIMIT			0.002
18B412217	AGAT_P00057R	J04637	9726630	11/30/2018	1.29
18B412217	AGAT_P00057R	J04638	9726631	11/30/2018	1.35
18B412217	AGAT_P00057R	J04639	9726632	11/30/2018	0.517
18B412217	AGAT_P00057R	J04640	9726633	11/30/2018	1.24
18B412217	AGAT_P00057R	J04641	9726634	11/30/2018	0.868
18B412217	AGAT_P00057R	J04642	9726635	11/30/2018	0.787
18B412217	AGAT_P00057R	J04643	9726636	11/30/2018	4.41
18B412217	AGAT_P00057R	J04644	9726637	11/30/2018	2.25
18B412217	AGAT_P00057R	J04645	9726638	11/30/2018	1.51
18B412217	AGAT_P00057R	J04646	9726639	11/30/2018	1.27
18B412217	AGAT_P00057R	J04647	9726640	11/30/2018	0.564
18B412217	AGAT_P00057R	J04648	9726641	11/30/2018	1.37
18B412217	AGAT_P00057R	J04649	9726642	11/30/2018	1.02
18B412217	AGAT_P00057R	J04650	9726643	11/30/2018	1.38
18B412217	AGAT_P00057R	J04651	9726644	11/30/2018	0.809
18B412217	AGAT_P00057R	J04652	9726645	11/30/2018	0.01
18B412217	AGAT_P00057R	J04653	9726646	11/30/2018	2.03
18B412217	AGAT_P00057R	J04654	9726647	11/30/2018	1.42
18B412217	AGAT_P00057R	J04655	9726648	11/30/2018	1.61
18B412217	AGAT_P00057R	J04656	9726649	11/30/2018	1.88
18B412217	AGAT_P00057R	J04657	9726650	11/30/2018	2.38
18B412217	AGAT_P00057R	J04658	9726651	11/30/2018	2.67
18B412217	AGAT_P00057R	J04659	9726652	11/30/2018	6.75
18B412217	AGAT_P00057R	J04660	9726653	11/30/2018	1.56
18B412217	AGAT_P00057R	J04661	9726654	11/30/2018	1.55
18B412217	AGAT_P00057R	J04662	9726655	11/30/2018	1.34
18B412217	AGAT_P00057R	J04663	9726656	11/30/2018	0.95
18B412217	AGAT_P00057R	J04664	9726657	11/30/2018	0.171
18B412217	AGAT_P00057R	J04665	9726658	11/30/2018	0.456
18B412217	AGAT_P00057R	J04666	9726659	11/30/2018	2.65
18B412217	AGAT_P00057R	J04667	9726660	11/30/2018	0.029
18B412217	AGAT_P00057R	J04668	9726661	11/30/2018	0.853
18B412217	AGAT_P00057R	J04669	9726662	11/30/2018	0.209
18B412217	AGAT_P00057R	J04670	9726663	11/30/2018	0.179
18B412217	AGAT_P00057R	J04671	9726664	11/30/2018	0.412
18B412217	AGAT_P00057R	J04672	9726665	11/30/2018	<0.002
18B412217	AGAT_P00057R	J04673	9726666	11/30/2018	0.45
18B412217	AGAT_P00057R	J04674	9726667	11/30/2018	0.337
18B412217	AGAT_P00057R	J04675	9726668	11/30/2018	0.011
18B412217	AGAT_P00057R	J04676	9726669	11/30/2018	<0.002

Au-Grav\_GRAVIMETRIC\_g/t  
202564

GRAVIMETRIC  
Au-Grav  
g/t  
0.5



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00495

AGAT WORK ORDER: 18B423041

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Feb 01, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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CANADA L4Z 1N9  
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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Feb 01, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72951 (9803265)		0.01
A72952 (9803266)		1.27
A72953 (9803267)		2.28
A72954 (9803268)		0.74
A72955 (9803269)		0.86
A72956 (9803270)		1.24
A72957 (9803271)		1.51
A72958 (9803272)		1.51
A72959 (9803273)		1.24
A72960 (9803274)		1.90
A72961 (9803275)		1.80
A72962 (9803276)		1.59
A72963 (9803277)		1.37
A72964 (9803278)		1.44
A72965 (9803279)		1.18
A72966 (9803280)		0.07

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018				DATE REPORTED: Feb 01, 2019				SAMPLE TYPE: Drill Core					
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
A72951 (9803265)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
A72952 (9803266)	<0.5	0.11	2	19	<0.5	<1	34.2	<0.5	<1	0.7	4.0	1.2	0.20	11
A72953 (9803267)	<0.5	6.64	<1	156	1.8	<1	6.20	<0.5	12	30.2	124	154	6.73	25
A72954 (9803268)	<0.5	7.60	<1	30	1.3	<1	9.08	<0.5	4	40.8	170	71.6	7.33	29
A72955 (9803269)	<0.5	7.35	<1	35	1.4	<1	7.46	<0.5	6	130	158	99.3	7.40	29
A72956 (9803270)	<0.5	7.39	<1	22	1.2	<1	8.19	<0.5	4	86.7	133	122	7.27	28
A72957 (9803271)	<0.5	7.85	<1	58	1.3	2	7.69	<0.5	4	48.4	151	105	7.61	29
A72958 (9803272)	<0.5	7.90	<1	58	1.4	<1	7.99	<0.5	4	45.0	150	110	7.64	30
A72959 (9803273)	<0.5	7.78	<1	52	1.8	<1	7.18	<0.5	4	41.5	149	102	7.37	27
A72960 (9803274)	<0.5	7.59	<1	61	1.3	<1	7.65	<0.5	4	42.6	185	97.4	7.70	29
A72961 (9803275)	<0.5	7.66	<1	69	1.3	<1	8.24	<0.5	4	43.0	131	104	7.88	29
A72962 (9803276)	<0.5	7.52	<1	21	1.6	2	7.72	<0.5	5	40.5	69.8	93.8	8.45	28
A72963 (9803277)	<0.5	7.30	<1	17	1.7	<1	7.34	<0.5	5	45.3	68.3	105	7.84	29
A72964 (9803278)	<0.5	7.32	<1	16	1.5	<1	6.37	<0.5	7	126	66.1	120	8.61	28
A72965 (9803279)	<0.5	7.39	<1	23	1.5	1	7.47	<0.5	5	41.4	59.7	110	8.19	28
A72966 (9803280)	<0.5	7.38	<1	144	2.0	2	7.23	<0.5	8	41.7	153	156	8.26	31

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Feb 01, 2019					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1
A72951 (9803265)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
A72952 (9803266)	<1	0.03	3	1	2.32	69	2.5	0.05	1.1	90	<20	<50	<0.01	<1	
A72953 (9803267)	<1	0.48	6	15	3.62	1140	2.9	1.63	69.0	290	<20	<50	0.11	<1	
A72954 (9803268)	<1	0.15	2	14	4.73	1380	3.1	0.96	82.2	169	<20	<50	0.06	2	
A72955 (9803269)	<1	0.17	3	11	4.35	1220	7.1	1.28	79.9	173	<20	<50	0.08	<1	
A72956 (9803270)	<1	0.15	2	9	4.38	1220	4.0	1.03	79.2	165	<20	<50	0.09	<1	
A72957 (9803271)	<1	0.25	2	16	4.78	1300	6.9	1.36	123	158	<20	<50	0.07	4	
A72958 (9803272)	<1	0.25	3	17	4.85	1300	2.2	1.40	99.1	158	<20	<50	0.08	<1	
A72959 (9803273)	<1	0.32	2	23	5.11	1290	2.7	2.08	109	172	<20	<50	0.03	2	
A72960 (9803274)	<1	0.32	3	13	4.95	1400	4.8	1.68	102	186	<20	<50	0.04	2	
A72961 (9803275)	<1	0.27	3	15	4.47	1450	3.1	1.29	94.1	204	<20	<50	0.10	<1	
A72962 (9803276)	<1	0.16	2	13	4.01	1420	4.1	1.40	64.6	224	<20	<50	0.05	2	
A72963 (9803277)	<1	0.13	3	12	3.88	1350	5.5	1.37	65.7	221	<20	<50	0.07	2	
A72964 (9803278)	<1	0.14	2	15	4.25	1410	3.1	1.55	65.5	195	<20	<50	0.10	2	
A72965 (9803279)	<1	0.13	2	17	3.99	1440	3.5	1.46	64.6	216	<20	<50	0.08	<1	
A72966 (9803280)	<1	0.20	3	11	4.41	1400	<0.5	2.32	92.7	426	<20	<50	0.14	2	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Feb 01, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	TI	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72951 (9803265)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
A72952 (9803266)	<1	<10	<5	76	<10	<10	<5	<0.01	<5	<50	2.6	<1	2	3.9	
A72953 (9803267)	31	<10	<5	134	<10	<10	<5	0.32	<5	<50	185	4	15	71.8	
A72954 (9803268)	44	<10	<5	80	<10	<10	<5	0.37	<5	<50	246	3	16	83.5	
A72955 (9803269)	44	<10	<5	81	<10	<10	<5	0.37	<5	<50	254	1180	16	70.1	
A72956 (9803270)	43	<10	<5	75	<10	<10	<5	0.37	<5	<50	245	634	15	69.9	
A72957 (9803271)	45	<10	<5	83	<10	<10	<5	0.39	<5	<50	256	89	16	68.9	
A72958 (9803272)	46	<10	<5	85	<10	<10	<5	0.39	<5	<50	261	29	16	74.4	
A72959 (9803273)	42	<10	<5	109	<10	<10	<5	0.36	<5	<50	235	11	16	61.5	
A72960 (9803274)	44	<10	<5	104	<10	<10	<5	0.38	<5	<50	243	8	16	78.5	
A72961 (9803275)	46	<10	<5	94	<10	<10	<5	0.40	<5	<50	271	7	17	78.7	
A72962 (9803276)	49	<10	<5	108	<10	<10	<5	0.46	<5	<50	286	10	19	81.9	
A72963 (9803277)	50	<10	<5	86	<10	<10	<5	0.45	<5	<50	295	40	20	70.0	
A72964 (9803278)	49	<10	<5	48	<10	<10	<5	0.45	<5	<50	282	1110	20	87.2	
A72965 (9803279)	47	<10	<5	70	<10	<10	<5	0.44	<5	<50	273	42	19	80.7	
A72966 (9803280)	45	<10	<5	113	<10	<10	<5	0.67	<5	<50	311	4	22	78.5	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Feb 01, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72951 (9803265)				NSS
A72952 (9803266)				<5
A72953 (9803267)				33
A72954 (9803268)				10
A72955 (9803269)				14
A72956 (9803270)				11
A72957 (9803271)				13
A72958 (9803272)				10
A72959 (9803273)				15
A72960 (9803274)				17
A72961 (9803275)				19
A72962 (9803276)				13
A72963 (9803277)				15
A72964 (9803278)				11
A72965 (9803279)				13
A72966 (9803280)				58

Comments: RDL - Reported Detection Limit  
 9803265-9803280 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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 CANADA L4Z 1N9  
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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Feb 01, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Concentration (ppm)
	Au	ppm	0.001	
A72951 (9803265)				0.550
A72952 (9803266)				0.003
A72953 (9803267)				0.013
A72954 (9803268)				0.057
A72955 (9803269)				0.008
A72956 (9803270)				0.009
A72957 (9803271)				0.007
A72958 (9803272)				0.006
A72959 (9803273)				0.008
A72960 (9803274)				0.006
A72961 (9803275)				0.015
A72962 (9803276)				0.009
A72963 (9803277)				0.007
A72964 (9803278)				0.005
A72965 (9803279)				0.007
A72966 (9803280)				0.531

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Feb 01, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A72954 (9803268)		81
A72961 (9803275)		96

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423041

PROJECT: AGAT00495

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Feb 01, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72953 (9803267)	95

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				RPD													
	Sample ID	Original	Replicate	RPD														
Ag	9803279	< 0.5	< 0.5	0.0%														
Al	9803279	7.39	7.17	3.0%														
As	9803279	< 1	< 1	0.0%														
Ba	9803279	23	22	4.4%														
Be	9803279	1.53	1.66	8.2%														
Bi	9803279	1	< 1															
Ca	9803279	7.47	7.47	0.0%														
Cd	9803279	< 0.5	< 0.5	0.0%														
Ce	9803279	5	5	0.0%														
Co	9803279	41.4	42.0	1.4%														
Cr	9803279	59.7	62.4	4.4%														
Cu	9803279	110	107	2.8%														
Fe	9803279	8.19	8.10	1.1%														
Ga	9803279	28	29	3.5%														
In	9803279	< 1	< 1	0.0%														
K	9803279	0.13	0.13	0.0%														
La	9803279	2	3															
Li	9803279	17	17	0.0%														
Mg	9803279	3.99	3.86	3.3%														
Mn	9803279	1440	1400	2.8%														
Mo	9803279	3.5	4.5	25.0%														
Na	9803279	1.46	1.46	0.0%														
Ni	9803279	64.6	70.3	8.5%														
P	9803279	216	219	1.4%														
Pb	9803279	< 20	< 20	0.0%														
Rb	9803279	< 50	< 50	0.0%														
S	9803279	0.08	0.08	0.0%														
Sb	9803279	< 1	1															
Sc	9803279	47	49	4.2%														
Se	9803279	< 10	< 10	0.0%														
Sn	9803279	< 5	< 5	0.0%														



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803279	70	69	1.4%												
Ta	9803279	< 10	< 10	0.0%												
Te	9803279	< 10	< 10	0.0%												
Th	9803279	< 5	< 5	0.0%												
Ti	9803279	0.44	0.43	2.3%												
Tl	9803279	< 5	< 5	0.0%												
U	9803279	< 50	< 50	0.0%												
V	9803279	273	283	3.6%												
W	9803279	42	30													
Y	9803279	19	20	5.1%												
Zn	9803279	80.7	79.4	1.6%												
Zr	9803279	13	11	16.7%												

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	9803265	0.550	0.557	1.3%	9803279	0.007	0.007	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	11.12	102%	90% - 110%												
Ba	340	335	99%	90% - 110%												
Be	2.6	3.3	126%	90% - 110%												
Ca	5.72	5.69	99%	90% - 110%												
Ce	122	119	98%	90% - 110%												
Cu	7	6	90%	90% - 110%												
Fe	4.34	4.06	94%	90% - 110%												
Ga	35	34	98%	90% - 110%												
K	1.37	1.46	106%	90% - 110%												
La	58	53	91%	90% - 110%												
Li	37	39	106%	90% - 110%												
Mg	0.325	0.311	96%	90% - 110%												
Na	5.267	5.641	107%	90% - 110%												
Ni	9	7	77%	90% - 110%												
Pb	10	7	71%	90% - 110%												
Rb	55	54	97%	90% - 110%												
Sc	1.1	0.8	72%	90% - 110%												
Sr	1191	1200	101%	90% - 110%												
Ti	0.172	0.16	93%	90% - 110%												
V	8	7	92%	90% - 110%												
Y	119	126	106%	90% - 110%												
Zn	93	88	95%	90% - 110%												

**(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.14	106%	90% - 110%	0.468	0.489	104%	90% - 110%								





## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00495  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423041  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00496

AGAT WORK ORDER: 18B423043

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 15, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423043

PROJECT: AGAT00496

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 CANADA L4Z 1N9  
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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72932 (9803284)		1.48
A72933 (9803285)		3.89
A72934 (9803286)		2.73
A72935 (9803287)		3.19
A72936 (9803288)		2.41
A72937 (9803289)		1.37
A72938 (9803290)		1.37
A72939 (9803291)		1.99
A72940 (9803292)		3.02
A72941 (9803293)		4.04
A72942 (9803294)		4.02
A72943 (9803295)		4.32
A72944 (9803296)		2.71
A72945 (9803297)		3.06
A72946 (9803298)		0.07
A72947 (9803299)		2.91
A72948 (9803300)		1.73

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423043

PROJECT: AGAT00496

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 15, 2019					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
A72932 (9803284)		<0.5	0.13	4	22	< 0.5	<1	34.7	<0.5	<1	0.5	5.6	<0.5	0.17	<5
A72933 (9803285)		0.9	9.14	12	589	< 0.5	2	2.89	<0.5	53	19.2	131	52.5	4.64	23.0
A72934 (9803286)		<0.5	5.88	<1	795	4.00	12	5.94	<0.5	109	36.4	361	101	7.98	28.0
A72935 (9803287)		0.9	7.95	7	688	1.60	7	3.19	<0.5	81	23.1	173	42.2	4.97	26.0
A72936 (9803288)		<0.5	9.24	6	766	0.600	<1	2.33	<0.5	66	20.8	131	54.1	4.73	23.0
A72937 (9803289)		<0.5	7.84	7	586	< 0.5	<1	1.67	<0.5	61	18.1	128	40.6	4.22	22.0
A72938 (9803290)		<0.5	8.14	6	605	< 0.5	3	1.78	<0.5	61	19.1	117	41.1	4.31	18.0
A72939 (9803291)		<0.5	8.74	67	623	< 0.5	<1	1.99	<0.5	70	20.3	118	44.3	4.42	24.0
A72940 (9803292)		<0.5	8.37	37	552	1.10	2	2.27	<0.5	55	14.5	112	32.1	3.85	18.0
A72941 (9803293)		<0.5	8.17	9	308	0.600	4	4.77	<0.5	32	31.3	128	80.3	9.13	24.0
A72942 (9803294)		<0.5	7.89	<1	272	0.800	8	5.41	<0.5	14	40.5	153	118	12.8	31.0
A72943 (9803295)		<0.5	8.13	<1	315	0.800	7	4.62	<0.5	12	43.7	231	89.3	11.2	31.0
A72944 (9803296)		<0.5	8.31	<1	380	< 0.5	<1	3.36	<0.5	54	22.8	156	32.3	5.92	22.0
A72945 (9803297)		<0.5	7.96	<1	412	< 0.5	<1	3.04	<0.5	43	30.5	172	55.4	5.52	20.0
A72946 (9803298)		<0.5	7.41	<1	174	1.10	<1	6.09	<0.5	20	38.1	212	105	7.73	30.0
A72947 (9803299)		<0.5	8.09	<1	628	< 0.5	<1	3.06	<0.5	48	153	144	30.6	5.29	22.0
A72948 (9803300)		<0.5	7.80	<1	589	< 0.5	<1	3.11	<0.5	45	25.3	149	32.7	5.37	22.0

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AGAT WORK ORDER: 18B423043

PROJECT: AGAT00496

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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 15, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72932 (9803284)	<1	0.04	3	<1	1.55	60	2.0	0.04	0.8	86	<20	<50	0.04	<1	
A72933 (9803285)	<1	1.60	22	28	1.90	755	4.8	2.33	63.5	636	<20	<50	0.18	<1	
A72934 (9803286)	<1	1.77	47	43	5.58	1290	4.4	1.58	240	2090	20	<50	0.22	2	
A72935 (9803287)	<1	1.61	35	35	2.99	774	5.1	2.54	126	1070	<20	<50	0.12	<1	
A72936 (9803288)	<1	1.85	29	40	1.83	648	5.8	2.92	76.4	733	<20	<50	0.17	2	
A72937 (9803289)	<1	1.85	26	37	1.80	511	7.5	2.07	74.7	682	<20	<50	0.11	3	
A72938 (9803290)	<1	1.93	26	38	1.87	539	5.6	2.19	74.9	684	<20	<50	0.11	<1	
A72939 (9803291)	<1	1.87	31	29	1.72	588	5.2	2.42	75.3	733	<20	<50	0.10	2	
A72940 (9803292)	<1	1.44	24	22	1.58	483	5.7	2.91	59.8	567	<20	<50	0.07	<1	
A72941 (9803293)	<1	1.07	13	24	1.26	1840	9.9	1.16	59.8	541	<20	<50	0.26	1	
A72942 (9803294)	<1	1.05	5	22	2.13	2390	3.7	0.82	76.9	554	<20	<50	0.33	<1	
A72943 (9803295)	<1	1.28	5	23	2.44	2110	3.1	1.28	98.7	579	<20	<50	0.20	3	
A72944 (9803296)	<1	1.31	24	22	2.25	1000	5.7	2.64	66.3	675	<20	<50	0.12	3	
A72945 (9803297)	<1	1.12	19	24	1.92	994	4.9	2.79	64.8	591	<20	<50	0.20	2	
A72946 (9803298)	<1	0.43	10	10	4.32	1310	<0.5	2.14	109	862	<20	<50	0.09	<1	
A72947 (9803299)	<1	1.32	20	20	1.88	954	4.3	2.65	64.2	593	<20	<50	0.11	<1	
A72948 (9803300)	<1	1.47	20	22	1.91	968	4.3	2.59	70.7	579	<20	<50	0.11	2	

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 15, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72932 (9803284)	<1	<10	<5	73	<10	<10	<5	<0.01	<5	<50	2.6	1	3	<0.5	
A72933 (9803285)	17	<10	<5	641	<10	<10	<5	0.44	<5	<50	144	4	14	121	
A72934 (9803286)	19	<10	<5	801	<10	<10	<5	1.57	<5	<50	233	2	22	106	
A72935 (9803287)	15	<10	<5	639	<10	<10	<5	0.69	<5	<50	147	2	15	90.1	
A72936 (9803288)	18	<10	<5	555	<10	<10	<5	0.42	<5	<50	139	1	15	89.5	
A72937 (9803289)	16	<10	<5	426	<10	<10	<5	0.34	<5	<50	121	1	12	71.1	
A72938 (9803290)	16	<10	<5	450	<10	<10	<5	0.36	<5	<50	123	<1	13	74.2	
A72939 (9803291)	18	<10	<5	432	<10	<10	<5	0.38	<5	<50	136	<1	14	71.2	
A72940 (9803292)	12	<10	<5	467	<10	<10	<5	0.32	<5	<50	98.2	3	11	66.3	
A72941 (9803293)	34	<10	<5	331	<10	<10	<5	0.60	<5	<50	254	8	29	97.9	
A72942 (9803294)	46	<10	<5	244	<10	<10	<5	0.86	<5	<50	331	4	34	116	
A72943 (9803295)	48	<10	<5	330	<10	<10	<5	0.84	<5	<50	356	4	32	111	
A72944 (9803296)	20	<10	<5	361	<10	<10	<5	0.45	<5	<50	160	7	17	81.9	
A72945 (9803297)	18	<10	<5	421	<10	<10	<5	0.40	<5	<50	133	168	14	75.0	
A72946 (9803298)	35	<10	<5	232	<10	<10	<5	0.81	<5	<50	257	2	22	86.0	
A72947 (9803299)	18	<10	<5	408	<10	<10	<5	0.38	<5	<50	135	1400	14	74.1	
A72948 (9803300)	20	<10	<5	369	<10	<10	<5	0.40	<5	<50	149	51	16	74.1	

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AGAT WORK ORDER: 18B423043

PROJECT: AGAT00496

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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

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(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72932 (9803284)				<5
A72933 (9803285)				112
A72934 (9803286)				207
A72935 (9803287)				150
A72936 (9803288)				124
A72937 (9803289)				111
A72938 (9803290)				113
A72939 (9803291)				130
A72940 (9803292)				102
A72941 (9803293)				44
A72942 (9803294)				21
A72943 (9803295)				20
A72944 (9803296)				101
A72945 (9803297)				97
A72946 (9803298)				93
A72947 (9803299)				96
A72948 (9803300)				94

Comments: RDL - Reported Detection Limit  
 9803284-9803300 As, Sb values may be low due to digestion losses.

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AGAT WORK ORDER: 18B423043

PROJECT: AGAT00496

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72932 (9803284)			<0.001
A72933 (9803285)			<0.001
A72934 (9803286)			0.001
A72935 (9803287)			<0.001
A72936 (9803288)			0.002
A72937 (9803289)			0.003
A72938 (9803290)			<0.001
A72939 (9803291)			0.001
A72940 (9803292)			<0.001
A72941 (9803293)			0.007
A72942 (9803294)			0.618
A72943 (9803295)			0.004
A72944 (9803296)			0.005
A72945 (9803297)			0.006
A72946 (9803298)			0.326
A72947 (9803299)			0.005
A72948 (9803300)			0.005

Comments: RDL - Reported Detection Limit

Certified By:





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PROJECT: AGAT00496

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 15, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72933 (9803285)	96

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423043

PROJECT: AGAT00496

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TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 15, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72933 (9803285)	91

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9803284	< 0.5	0.6		9803299	< 0.5	< 0.5	0.0%				
Al	9803284	0.13	0.10	26.1%	9803299	8.09	8.04	0.6%				
As	9803284	4	4	0.0%	9803299	< 1	< 1	0.0%				
Ba	9803284	22	20	9.5%	9803299	628	625	0.5%				
Be	9803284	< 0.5	< 0.5	0.0%	9803299	< 0.5	< 0.5	9.3%				
Bi	9803284	< 1	< 1	0.0%	9803299	< 1	< 1	0.0%				
Ca	9803284	34.7	35.3	1.7%	9803299	3.06	3.18	3.8%				
Cd	9803284	< 0.5	< 0.5	0.0%	9803299	< 0.5	< 0.5	0.0%				
Ce	9803284	< 1	< 1	0.0%	9803299	48	46	4.3%				
Co	9803284	0.5	0.5	0.0%	9803299	153	130	16.3%				
Cr	9803284	5.6	4.5	21.8%	9803299	144	145	0.7%				
Cu	9803284	< 0.5	< 0.5	0.0%	9803299	30.6	30.7	0.3%				
Fe	9803284	0.17	0.12		9803299	5.29	5.28	0.2%				
Ga	9803284	< 5	< 5	7.4%	9803299	22.0	19.0	14.6%				
In	9803284	< 1	< 1	0.0%	9803299	< 1	< 1	0.0%				
K	9803284	0.04	0.02		9803299	1.32	1.29	2.3%				
La	9803284	3	2		9803299	20	19	5.1%				
Li	9803284	< 1	< 1	0.0%	9803299	20	19	5.1%				
Mg	9803284	1.55	1.51	2.6%	9803299	1.88	1.86	1.1%				
Mn	9803284	60	51	16.2%	9803299	954	960	0.6%				
Mo	9803284	2.0	1.9	5.1%	9803299	4.3	4.0	7.2%				
Na	9803284	0.04	0.04	0.0%	9803299	2.65	2.79	5.1%				
Ni	9803284	0.8	0.5		9803299	64.2	62.0	3.5%				
P	9803284	86	68	23.4%	9803299	593	569	4.1%				
Pb	9803284	< 20	< 20	0.0%	9803299	< 20	< 20	0.0%				
Rb	9803284	< 50	< 50	0.0%	9803299	< 50	< 50	0.0%				
S	9803284	0.04	0.04	0.0%	9803299	0.11	0.11	0.0%				
Sb	9803284	< 1	< 1	0.0%	9803299	< 1	< 1	0.0%				
Sc	9803284	< 1	< 1	0.0%	9803299	18	17	5.7%				
Se	9803284	< 10	< 10	0.0%	9803299	< 10	< 10	0.0%				
Sn	9803284	< 5	< 5	0.0%	9803299	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803284	73	74	1.4%	9803299	408	410	0.5%									
Ta	9803284	< 10	< 10	0.0%	9803299	< 10	< 10	0.0%									
Te	9803284	< 10	< 10	0.0%	9803299	< 10	< 10	0.0%									
Th	9803284	< 5	< 5	0.0%	9803299	< 5	< 5	0.0%									
Ti	9803284	< 0.01	< 0.01	0.0%	9803299	0.38	0.38	0.0%									
Tl	9803284	< 5	< 5	0.0%	9803299	< 5	< 5	0.0%									
U	9803284	< 50	< 50	0.0%	9803299	< 50	< 50	0.0%									
V	9803284	2.6	1.9	31.1%	9803299	135	129	4.5%									
W	9803284	1	< 1		9803299	1400	1070	26.7%									
Y	9803284	3	2		9803299	14	14	0.0%									
Zn	9803284	< 0.5	< 0.5	0.0%	9803299	74.1	75.6	2.0%									
Zr	9803284	< 5	< 5	0.0%	9803299	96	94	2.1%									

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	REPLICATE #1				REPLICATE #2												
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	9803284	< 0.001	0.018	0.0%	9803299	0.005	0.023										



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	11.54	105%	90% - 110%												
Ba	340	367	108%	90% - 110%												
Be	2.6	1.90	73%	90% - 110%												
Ca	5.72	5.98	104%	90% - 110%												
Ce	122	117	96%	90% - 110%												
Cu	7	6	83%	90% - 110%												
Fe	4.34	4.38	101%	90% - 110%												
Ga	35	33.4	96%	90% - 110%												
K	1.37	1.48	108%	90% - 110%												
La	58	53	91%	90% - 110%												
Li	37	41	110%	90% - 110%												
Mg	0.325	0.331	102%	90% - 110%												
Na	5.267	5.47	104%	90% - 110%												
Pb	10	8	83%	90% - 110%												
Sr	1191	1235	104%	90% - 110%												
Ti	0.172	0.171	100%	90% - 110%												
V	8	6	79%	90% - 110%												
Y	119	118	99%	90% - 110%												
Zn	93	97.9	105%	90% - 110%												

**(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	1.98	99%	90% - 110%	0.468	0.49	105%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00496  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423043  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00497

AGAT WORK ORDER: 18B423045

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 17, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 17, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72985 (9803302)		1.93
A72986 (9803303)		0.07
A72987 (9803304)		1.99
A72988 (9803305)		2.13
A72989 (9803306)		1.88
A72990 (9803307)		2.13
A72991 (9803308)		2.18
A72992 (9803309)		1.51
A72993 (9803310)		2.12
A72994 (9803311)		2.41
A72995 (9803312)		2.40
A72996 (9803313)		2.57
A72997 (9803314)		2.08
A72998 (9803315)		3.37
A72999 (9803316)		2.01
A73000 (9803317)		1.66
A73001 (9803318)		1.90

Comments: RDL - Reported Detection Limit

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

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TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018			DATE REPORTED: Jan 17, 2019			SAMPLE TYPE: Drill Core							
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
A72985 (9803302)	<0.5	7.01	<1	103	2.0	5	6.06	<0.5	6	39.4	58.1	111	9.32	27.0
A72986 (9803303)	<0.5	7.17	<1	166	1.3	5	6.35	<0.5	19	36.3	160	105	7.76	26.0
A72987 (9803304)	<0.5	6.92	<1	62	1.8	2	6.31	<0.5	5	44.1	65.1	117	9.77	30.0
A72988 (9803305)	<0.5	6.88	<1	87	2.0	<1	5.91	<0.5	5	44.1	60.2	101	9.75	32.0
A72989 (9803306)	<0.5	6.79	<1	84	2.0	<1	5.56	<0.5	12	47.4	86.3	110	9.36	31.0
A72990 (9803307)	<0.5	7.02	<1	33	2.2	<1	5.94	<0.5	8	41.5	69.2	108	9.69	30.0
A72991 (9803308)	<0.5	6.95	<1	<1	1.9	4	5.96	<0.5	5	41.7	60.9	125	9.81	27.0
A72992 (9803309)	<0.5	0.14	<1	14	<0.5	<1	31.1	<0.5	<1	1.3	5.1	<0.5	0.26	5.00
A72993 (9803310)	<0.5	7.08	<1	78	1.5	1	6.59	<0.5	4	42.6	135	93.8	8.81	30.0
A72994 (9803311)	<0.5	7.02	<1	158	1.9	<1	7.21	<0.5	5	41.8	197	102	8.04	26.0
A72995 (9803312)	<0.5	7.10	4	75	3.0	5	5.53	<0.5	8	26.5	113	72.7	5.28	23.0
A72996 (9803313)	<0.5	7.23	2	58	4.7	7	3.57	<0.5	11	18.2	72.7	36.8	3.69	24.0
A72997 (9803314)	<0.5	7.30	2	17	6.6	10	0.79	<0.5	13	2.1	13.8	9.1	1.03	12.0
A72998 (9803315)	<0.5	7.22	1	16	6.7	10	0.74	<0.5	12	2.0	16.4	7.5	0.96	12.0
A72999 (9803316)	<0.5	7.38	<1	114	4.0	3	5.89	<0.5	6	34.2	162	85.2	7.03	26.0
A73000 (9803317)	<0.5	7.52	<1	106	5.2	1	6.69	<0.5	5	38.8	168	146	7.42	25.0
A73001 (9803318)	<0.5	6.88	<1	20	1.0	4	6.83	<0.5	4	35.4	171	89.7	7.90	22.0

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 17, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
Sample ID (AGAT ID)															
A72985 (9803302)	<1	0.40	3	41	3.60	1710	2.6	1.94	73.8	296	<20	<50	0.13	1	
A72986 (9803303)	<1	0.43	9	10	4.01	1290	0.7	2.24	105	851	<20	<50	0.09	2	
A72987 (9803304)	<1	0.38	3	41	3.50	1650	3.6	2.00	83.3	309	<20	<50	0.13	<1	
A72988 (9803305)	<1	0.42	3	44	3.74	1440	3.3	2.32	75.6	299	<20	<50	0.08	2	
A72989 (9803306)	<1	0.68	6	57	3.58	1340	2.6	2.15	72.2	438	<20	<50	0.11	<1	
A72990 (9803307)	<1	0.43	4	50	3.34	1390	2.9	2.41	61.3	367	<20	<50	0.09	<1	
A72991 (9803308)	<1	0.21	3	43	3.50	1500	3.5	2.26	66.0	272	<20	<50	0.11	2	
A72992 (9803309)	<1	0.02	2	1	2.04	78	2.5	0.06	1.8	81	<20	<50	0.03	<1	
A72993 (9803310)	<1	0.51	3	60	3.98	1480	2.1	1.56	103	266	<20	<50	0.09	<1	
A72994 (9803311)	<1	0.79	3	54	3.43	1430	2.2	1.27	118	280	<20	<50	0.13	1	
A72995 (9803312)	<1	1.10	4	44	2.19	1290	3.0	2.68	73.2	221	<20	<50	0.05	1	
A72996 (9803313)	<1	1.90	4	35	1.52	1060	4.0	2.84	51.2	182	<20	76	0.02	2	
A72997 (9803314)	<1	2.62	6	7	0.15	688	7.7	3.85	7.0	109	<20	110	0.01	<1	
A72998 (9803315)	<1	2.56	5	6	0.12	709	7.3	3.73	6.6	112	<20	108	<0.01	<1	
A72999 (9803316)	<1	1.01	4	50	2.69	1440	4.3	1.79	95.4	251	<20	<50	0.06	<1	
A73000 (9803317)	<1	0.72	3	60	2.47	1450	2.7	1.80	101	297	<20	<50	0.16	<1	
A73001 (9803318)	<1	0.25	2	58	4.14	1280	2.5	1.41	101	227	<20	<50	0.08	2	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 17, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A72985 (9803302)	45	<10	<5	137	<10	<10	<5	0.72	<5	<50	344	4	20	97.3	
A72986 (9803303)	33	<10	<5	241	<10	<10	<5	0.83	<5	<50	234	4	21	85.8	
A72987 (9803304)	47	<10	<5	130	<10	<10	<5	0.74	<5	<50	352	5	21	91.8	
A72988 (9803305)	48	<10	<5	118	<10	<10	<5	0.74	<5	<50	368	2	22	80.2	
A72989 (9803306)	48	<10	<5	100	<10	<10	<5	0.70	<5	<50	375	12	23	81.6	
A72990 (9803307)	49	<10	<5	119	<10	<10	<5	0.72	<5	<50	375	3	22	83.9	
A72991 (9803308)	48	<10	<5	106	<10	<10	<5	0.73	<5	<50	362	5	21	90.2	
A72992 (9803309)	<1	<10	<5	64	<10	<10	<5	0.01	<5	<50	6.0	1	2	5.9	
A72993 (9803310)	44	<10	<5	87	<10	<10	<5	0.61	<5	<50	324	3	20	78.8	
A72994 (9803311)	42	<10	<5	96	<10	<10	<5	0.54	<5	<50	285	4	19	73.7	
A72995 (9803312)	27	<10	<5	72	<10	<10	<5	0.36	<5	<50	174	6	18	70.9	
A72996 (9803313)	20	<10	6	43	<10	<10	<5	0.24	<5	<50	120	8	16	47.4	
A72997 (9803314)	5	<10	7	17	<10	<10	<5	0.03	<5	<50	11.2	5	18	22.3	
A72998 (9803315)	5	<10	8	16	<10	<10	<5	0.02	<5	<50	9.8	5	18	21.0	
A72999 (9803316)	34	<10	<5	65	<10	<10	<5	0.43	<5	<50	223	11	19	70.2	
A73000 (9803317)	39	<10	<5	91	<10	<10	<5	0.51	<5	<50	254	22	21	63.5	
A73001 (9803318)	37	<10	<5	87	<10	<10	<5	0.53	<5	<50	251	4	17	69.5	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 17, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72985 (9803302)				15
A72986 (9803303)				90
A72987 (9803304)				14
A72988 (9803305)				14
A72989 (9803306)				24
A72990 (9803307)				19
A72991 (9803308)				14
A72992 (9803309)				<5
A72993 (9803310)				12
A72994 (9803311)				14
A72995 (9803312)				20
A72996 (9803313)				24
A72997 (9803314)				31
A72998 (9803315)				31
A72999 (9803316)				17
A73000 (9803317)				20
A73001 (9803318)				10

Comments: RDL - Reported Detection Limit  
 9803302-9803318 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 17, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72985 (9803302)			0.031
A72986 (9803303)			0.335
A72987 (9803304)			<0.001
A72988 (9803305)			0.001
A72989 (9803306)			0.002
A72990 (9803307)			0.002
A72991 (9803308)			0.001
A72992 (9803309)			<0.001
A72993 (9803310)			0.002
A72994 (9803311)			<0.001
A72995 (9803312)			0.002
A72996 (9803313)			<0.001
A72997 (9803314)			0.002
A72998 (9803315)			<0.001
A72999 (9803316)			<0.001
A73000 (9803317)			<0.001
A73001 (9803318)			<0.001

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 17, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72985 (9803302)	94

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

5623 McADAM ROAD  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 17, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72985 (9803302)	94

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9803302	< 0.5	< 0.5	0.0%	9803316	< 0.5	< 0.5	0.0%								
Al	9803302	7.01	6.75	3.8%	9803316	7.38	7.60	2.9%								
As	9803302	< 1	< 1	0.0%	9803316	< 1	< 1	0.0%								
Ba	9803302	103	102	1.0%	9803316	114	118	3.4%								
Be	9803302	2.0	2.0	0.0%	9803316	3.96	3.91	1.3%								
Bi	9803302	5	3	50.0%	9803316	3	3	0.0%								
Ca	9803302	6.06	5.94	2.0%	9803316	5.89	5.95	1.0%								
Cd	9803302	< 0.5	< 0.5	0.0%	9803316	< 0.5	< 0.5	0.0%								
Ce	9803302	6	6	0.0%	9803316	6	6	0.0%								
Co	9803302	39.4	42.4	7.3%	9803316	34.2	33.0	3.6%								
Cr	9803302	58.1	61.6	5.8%	9803316	162	157	3.1%								
Cu	9803302	111	111	0.0%	9803316	85.2	85.6	0.5%								
Fe	9803302	9.32	9.07	2.7%	9803316	7.03	7.14	1.6%								
Ga	9803302	27.0	28.0	3.6%	9803316	26.0	29.0	10.9%								
In	9803302	< 1	< 1	0.0%	9803316	< 1	< 1	0.0%								
K	9803302	0.40	0.39	2.5%	9803316	1.01	1.03	2.0%								
La	9803302	3	3	0.0%	9803316	4	3	28.6%								
Li	9803302	41	40	2.5%	9803316	50	52	3.9%								
Mg	9803302	3.60	3.47	3.7%	9803316	2.69	2.75	2.2%								
Mn	9803302	1710	1620	5.4%	9803316	1440	1460	1.4%								
Mo	9803302	2.65	3.48	27.1%	9803316	4.3	3.9	9.8%								
Na	9803302	1.94	1.91	1.6%	9803316	1.79	1.83	2.2%								
Ni	9803302	73.8	76.9	4.1%	9803316	95.4	94.7	0.7%								
P	9803302	296	303	2.3%	9803316	251	241	4.1%								
Pb	9803302	< 20	< 20	0.0%	9803316	< 20	< 20	0.0%								
Rb	9803302	< 50	< 50	0.0%	9803316	< 50	< 50	0.0%								
S	9803302	0.13	0.12	8.0%	9803316	0.06	0.06	0.0%								
Sb	9803302	1	< 1		9803316	< 1	1									
Sc	9803302	45	46	2.2%	9803316	34	33	3.0%								
Se	9803302	< 10	< 10	0.0%	9803316	< 10	< 10	0.0%								
Sn	9803302	< 5	< 5	0.0%	9803316	< 5	< 5	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803302	137	133	3.0%	9803316	65	66	1.5%										
Ta	9803302	< 10	< 10	0.0%	9803316	< 10	< 10	0.0%										
Te	9803302	< 10	< 10	0.0%	9803316	< 10	< 10	0.0%										
Th	9803302	< 5	< 5	0.0%	9803316	< 5	< 5	0.0%										
Ti	9803302	0.717	0.700	2.4%	9803316	0.432	0.442	2.3%										
Tl	9803302	< 5	< 5	0.0%	9803316	< 5	< 5	0.0%										
U	9803302	< 50	< 50	0.0%	9803316	< 50	< 50	0.0%										
V	9803302	344	354	2.9%	9803316	223	221	0.9%										
W	9803302	4	5	22.2%	9803316	11	14	24.0%										
Y	9803302	20	21	4.9%	9803316	19	19	0.0%										
Zn	9803302	97.3	96.2	1.1%	9803316	70.2	71.6	2.0%										
Zr	9803302	15	17	12.5%	9803316	17	17	0.0%										

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	REPLICATE #1				REPLICATE #2													
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Au	9803302	0.031	0.002		9803316	< 0.001	< 0.001	0.0%										



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.05	92%	90% - 110%												
Ba	340	308	91%	90% - 110%												
Be	2.6	2.8	109%	90% - 110%												
Ca	5.72	5.26	92%	90% - 110%												
Ce	122	116	95%	90% - 110%												
Cu	7	7	100%	90% - 110%												
Fe	4.34	3.98	92%	90% - 110%												
Ga	35	36	102%	90% - 110%												
K	1.37	1.32	96%	90% - 110%												
La	58	50	86%	90% - 110%												
Li	37	35	96%	90% - 110%												
Mg	0.325	0.271	83%	90% - 110%												
Na	5.267	5	95%	90% - 110%												
Ni	9	7	79%	90% - 110%												
Pb	10	10	105%	90% - 110%												
Sr	1191	1109	93%	90% - 110%												
Ta	0.9	1	111%	90% - 110%												
Ti	0.172	0.156	91%	90% - 110%												
V	8	6	71%	90% - 110%												
Y	119	119	100%	90% - 110%												
Zn	93	84	90%	90% - 110%												

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.VW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	1.89	94%	90% - 110%	0.468	0.438	93%	90% - 110%								

## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED

AGAT WORK ORDER: 18B423045

PROJECT: AGAT00497

ATTENTION TO: Stephen Brooking

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00498

AGAT WORK ORDER: 18B423046

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 16, 2019

PAGES (INCLUDING COVER): 11

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423046

PROJECT: AGAT00498

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 16, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72923 (9803319)		2.62
A72924 (9803320)		1.77
A72925 (9803321)		2.34
A72926 (9803322)		0.07
A72927 (9803323)		1.32
A72928 (9803324)		1.76
A72929 (9803325)		1.67
A72930 (9803326)		1.72

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423046

PROJECT: AGAT00498

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018		DATE REPORTED: Jan 16, 2019		SAMPLE TYPE: Drill Core									
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
Sample ID (AGAT ID)														
A72923 (9803319)	<0.5	6.77	<1	195	1.4	3	4.86	<0.5	26	34.2	22.1	42.4	6.86	34
A72924 (9803320)	<0.5	6.48	<1	257	1.3	<1	4.49	<0.5	28	26.1	30.4	27.9	5.56	31
A72925 (9803321)	<0.5	7.45	<1	277	1.1	<1	5.94	<0.5	18	34.7	47.1	74.2	7.01	32
A72926 (9803322)	<0.5	7.08	1	124	1.1	4	6.94	<0.5	7	36.6	135	156	8.26	35
A72927 (9803323)	<0.5	7.37	<1	326	1.1	<1	4.81	<0.5	26	29.0	29.1	80.4	6.45	33
A72928 (9803324)	<0.5	7.68	<1	148	1.1	<1	5.70	<0.5	12	41.2	30.2	85.1	7.45	38
A72929 (9803325)	<0.5	7.98	<1	165	0.8	<1	6.60	<0.5	13	37.7	58.3	78.6	7.36	33
A72930 (9803326)	<0.5	7.22	1	384	1.4	<1	2.91	<0.5	29	12.1	38.5	42.3	3.16	28
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1
Sample ID (AGAT ID)														
A72923 (9803319)	<1	0.56	11	12	2.21	1230	4.1	2.21	13.0	620	<20	<50	0.11	<1
A72924 (9803320)	<1	0.76	12	12	1.81	971	5.0	2.28	14.4	746	<20	<50	0.07	1
A72925 (9803321)	<1	0.73	9	20	2.61	1360	3.7	2.25	32.3	402	<20	<50	0.14	3
A72926 (9803322)	<1	0.20	3	12	4.09	1360	<0.5	2.28	82.6	383	<20	<50	0.15	3
A72927 (9803323)	<1	1.03	12	26	2.67	994	3.6	2.11	24.6	397	<20	<50	0.23	3
A72928 (9803324)	<1	0.60	6	19	3.67	1200	2.7	2.20	34.1	348	<20	<50	0.06	<1
A72929 (9803325)	<1	0.71	7	16	3.86	1240	3.0	2.22	46.0	297	<20	<50	0.07	<1
A72930 (9803326)	<1	1.22	13	30	1.44	364	5.3	2.66	35.9	370	<20	<50	0.17	<1
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
Sample ID (AGAT ID)														
A72923 (9803319)	36	<10	<5	245	<10	<10	<5	0.41	<5	<50	236	2	22	94.3
A72924 (9803320)	27	<10	<5	298	<10	<10	<5	0.33	<5	<50	177	5	18	81.9
A72925 (9803321)	35	<10	<5	263	<10	<10	<5	0.36	<5	<50	204	4	18	126
A72926 (9803322)	43	<10	<5	113	<10	<10	<5	0.67	<5	<50	296	3	21	78.4
A72927 (9803323)	32	<10	<5	227	<10	<10	<5	0.33	<5	<50	197	3	18	150
A72928 (9803324)	45	<10	<5	263	<10	<10	<5	0.36	<5	<50	252	4	19	86.1
A72929 (9803325)	41	<10	<5	245	<10	<10	<5	0.34	<5	<50	225	3	18	147
A72930 (9803326)	11	<10	<5	231	<10	<10	<5	0.22	<5	<50	64.6	2	10	87.1

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423046

PROJECT: AGAT00498

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 16, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72923 (9803319)				53
A72924 (9803320)				53
A72925 (9803321)				32
A72926 (9803322)				51
A72927 (9803323)				47
A72928 (9803324)				10
A72929 (9803325)				9
A72930 (9803326)				102

Comments: RDL - Reported Detection Limit

9803319-9803326 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423046

PROJECT: AGAT00498

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 16, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72923 (9803319)			0.009
A72924 (9803320)			0.002
A72925 (9803321)			0.005
A72926 (9803322)			0.510
A72927 (9803323)			0.004
A72928 (9803324)			0.004
A72929 (9803325)			0.002
A72930 (9803326)			0.002

Comments: RDL - Reported Detection Limit

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 18B423046

PROJECT: AGAT00498

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 16, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72923 (9803319)	88

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423046

PROJECT: AGAT00498

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 16, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72923 (9803319)	93

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				RPD													
	Sample ID	Original	Replicate	RPD														
Ag	9803319	< 0.5	< 0.5	0.0%														
Al	9803319	6.77	7.11	4.9%														
As	9803319	< 1	< 1	0.0%														
Ba	9803319	195	192	1.6%														
Be	9803319	1.4	1.3	7.4%														
Bi	9803319	3	< 1															
Ca	9803319	4.86	5.20	6.8%														
Cd	9803319	< 0.5	< 0.5	0.0%														
Ce	9803319	26	26	0.0%														
Co	9803319	34.2	35.1	2.6%														
Cr	9803319	22.1	22.7	2.7%														
Cu	9803319	42.4	42.8	0.9%														
Fe	9803319	6.86	7.33	6.6%														
Ga	9803319	34	36	5.7%														
In	9803319	< 1	< 1	0.0%														
K	9803319	0.56	0.57	1.8%														
La	9803319	11	11	0.0%														
Li	9803319	12	12	0.0%														
Mg	9803319	2.21	2.33	5.3%														
Mn	9803319	1230	1290	4.8%														
Mo	9803319	4.06	3.97	2.2%														
Na	9803319	2.21	2.36	6.6%														
Ni	9803319	13.0	12.6	3.1%														
P	9803319	620	622	0.3%														
Pb	9803319	< 20	< 20	0.0%														
Rb	9803319	< 50	< 50	0.0%														
S	9803319	0.107	0.103	3.8%														
Sb	9803319	< 1	1															
Sc	9803319	36	37	2.7%														
Se	9803319	< 10	< 10	0.0%														
Sn	9803319	< 5	< 5	0.0%														



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803319	245	260	5.9%												
Ta	9803319	< 10	< 10	0.0%												
Te	9803319	< 10	< 10	0.0%												
Th	9803319	< 5	< 5	0.0%												
Ti	9803319	0.41	0.43	4.8%												
Tl	9803319	< 5	< 5	0.0%												
U	9803319	< 50	< 50	0.0%												
V	9803319	236	240	1.7%												
W	9803319	2	4													
Y	9803319	22	22	0.0%												
Zn	9803319	94.3	97.4	3.2%												
Zr	9803319	53	53	0.0%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (ppm)

		REPLICATE #1														
Parameter	Sample ID	Original	Replicate	RPD												
Au	9803319	0.009	0.002													



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.41	95%	90% - 110%												
Ba	340	329	97%	90% - 110%												
Be	2.6	2.8	109%	90% - 110%												
Ca	5.72	5.46	96%	90% - 110%												
Ce	122	120	98%	90% - 110%												
Cu	7	6	89%	90% - 110%												
Fe	4.34	4.11	95%	90% - 110%												
Ga	35	37	107%	90% - 110%												
K	1.37	1.38	100%	90% - 110%												
La	58	51	88%	90% - 110%												
Li	37	37	101%	90% - 110%												
Mg	0.325	0.284	87%	90% - 110%												
Na	5.267	5.166	98%	90% - 110%												
Sr	1191	1144	96%	90% - 110%												
Ta	0.9	0.8	88%	90% - 110%												
Ti	0.172	0.161	94%	90% - 110%												
V	8	6	78%	90% - 110%												
Y	119	121	102%	90% - 110%												
Zn	93	90	96%	90% - 110%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	1.91	95%	90% - 110%	0.468	0.431	92%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00498  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423046  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00499

AGAT WORK ORDER: 18B423047

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 25, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 25, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A73002 (9803327)		1.91
A73003 (9803328)		1.96
A73004 (9803329)		1.61
A73005 (9803330)		2.00
A73006 (9803331)		0.07
A73007 (9803332)		2.14
A73008 (9803333)		2.00
A73009 (9803334)		1.98
A73010 (9803335)		2.46
A73011 (9803336)		2.19
A73012 (9803337)		1.57
A73013 (9803338)		2.73
A73014 (9803339)		1.76
A73015 (9803340)		1.76
A73016 (9803341)		1.22
A73017 (9803342)		1.82
A73018 (9803343)		2.11
S09621 (9803344)		0.01
S09622 (9803345)		0.01

Comments: RDL - Reported Detection Limit

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018			DATE REPORTED: Jan 25, 2019			SAMPLE TYPE: Drill Core							
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
A73002 (9803327)	<0.5	6.55	<1	135	4.0	2	6.04	<0.5	8	39.7	253	121	6.61	31
A73003 (9803328)	<0.5	6.73	7	99	2.3	4	6.18	<0.5	4	41.0	239	99.9	7.18	32
A73004 (9803329)	<0.5	7.08	4	127	5.3	<1	6.44	<0.5	4	41.8	240	106	7.32	32
A73005 (9803330)	<0.5	7.14	<1	152	2.8	<1	6.68	<0.5	3	39.6	324	110	6.92	32
A73006 (9803331)	<0.5	6.85	<1	158	4.5	7	6.89	<0.5	9	41.9	188	189	7.73	37
A73007 (9803332)	<0.5	6.97	<1	135	2.5	3	6.70	<0.5	3	41.7	359	92.6	6.76	32
A73008 (9803333)	<0.5	6.38	<1	438	5.4	12	7.48	<0.5	36	44.3	395	126	8.18	33
A73009 (9803334)	<0.5	7.47	<1	179	2.6	1	8.35	<0.5	5	45.0	367	144	7.15	35
A73010 (9803335)	<0.5	7.10	<1	146	2.4	<1	6.98	<0.5	3	44.1	307	90.1	7.39	31
A73011 (9803336)	<0.5	7.86	5	401	2.2	<1	1.53	<0.5	8	6.0	39.3	19.0	1.69	25
A73012 (9803337)	<0.5	0.13	<1	18	<0.5	<1	34.0	<0.5	<1	0.9	10.3	1.7	0.16	14
A73013 (9803338)	0.7	7.02	4	447	1.4	<1	0.97	<0.5	4	0.8	14.1	7.1	0.64	16
A73014 (9803339)	<0.5	6.94	3	340	2.2	<1	0.87	<0.5	5	<0.5	21.9	4.4	0.53	15
A73015 (9803340)	<0.5	7.31	<1	184	1.4	1	1.33	<0.5	5	1.2	24.4	11.3	0.91	17
A73016 (9803341)	<0.5	8.60	6	180	1.8	<1	1.65	<0.5	7	0.6	21.3	9.6	0.79	18
A73017 (9803342)	<0.5	7.28	3	194	1.8	<1	1.15	<0.5	15	1.6	34.3	12.8	0.73	18
A73018 (9803343)	<0.5	7.57	4	207	1.8	<1	1.21	<0.5	14	1.7	28.8	13.3	0.76	19
S09621 (9803344)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
S09622 (9803345)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 25, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A73002 (9803327)	<1	0.58	4	24	4.57	1160	4.3	2.65	97.5	233	<20	<50	<0.01	<1	
A73003 (9803328)	<1	0.32	2	17	4.58	1190	5.1	2.44	89.6	132	<20	<50	0.02	<1	
A73004 (9803329)	<1	0.67	<2	32	4.97	1300	3.5	2.64	90.5	151	<20	<50	0.03	1	
A73005 (9803330)	<1	0.68	<2	25	4.84	1260	2.5	2.83	99.9	152	<20	<50	<0.01	<1	
A73006 (9803331)	<1	0.19	3	11	4.15	1380	<0.5	2.21	93.1	398	<20	<50	0.12	<1	
A73007 (9803332)	<1	0.57	2	38	4.88	1250	2.4	2.39	112	146	<20	<50	0.02	2	
A73008 (9803333)	<1	0.87	16	38	6.27	1460	2.9	1.91	178	742	<20	<50	0.08	<1	
A73009 (9803334)	<1	0.39	3	30	5.02	1460	2.5	1.78	116	126	<20	<50	0.06	<1	
A73010 (9803335)	<1	0.46	2	20	5.20	1360	4.2	2.14	109	157	<20	<50	0.03	<1	
A73011 (9803336)	<1	4.30	3	12	0.75	349	6.7	2.94	16.7	63	28	<50	0.02	<1	
A73012 (9803337)	<1	0.05	3	<1	2.28	60	2.8	0.06	1.2	79	<20	<50	<0.01	<1	
A73013 (9803338)	1	4.47	<2	6	0.18	128	6.3	2.46	5.4	37	28	<50	0.01	2	
A73014 (9803339)	<1	4.19	2	3	0.11	90	8.8	2.60	4.9	34	30	<50	<0.01	<1	
A73015 (9803340)	<1	2.70	<2	4	0.18	270	10.5	3.24	8.6	22	30	<50	0.01	<1	
A73016 (9803341)	<1	2.82	<2	3	0.14	723	9.5	3.91	4.9	30	28	<50	0.02	<1	
A73017 (9803342)	<1	3.74	6	2	0.13	320	10.2	2.98	6.8	50	26	<50	0.05	<1	
A73018 (9803343)	<1	3.84	6	2	0.14	331	11.0	3.17	7.5	44	26	<50	0.05	<1	
S09621 (9803344)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
S09622 (9803345)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 25, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A73002 (9803327)	42	<10	<5	110	<10	<10	<5	0.33	<5	<50	230	5	17	148	
A73003 (9803328)	43	<10	<5	103	<10	<10	<5	0.33	<5	<50	245	5	17	75.0	
A73004 (9803329)	47	<10	<5	111	<10	<10	<5	0.33	<5	<50	253	4	18	67.6	
A73005 (9803330)	42	<10	<5	99	<10	<10	<5	0.33	<5	<50	232	2	18	66.7	
A73006 (9803331)	48	<10	<5	112	<10	<10	<5	0.65	<5	<50	321	3	23	82.1	
A73007 (9803332)	44	<10	7	94	<10	<10	<5	0.32	<5	<50	233	8	17	65.5	
A73008 (9803333)	37	<10	<5	286	<10	<10	<5	0.78	<5	<50	236	3	16	82.6	
A73009 (9803334)	39	<10	<5	113	<10	<10	<5	0.39	<5	<50	211	9	14	84.3	
A73010 (9803335)	45	<10	<5	109	<10	<10	<5	0.35	<5	<50	241	3	15	77.1	
A73011 (9803336)	7	<10	7	153	<10	<10	<5	0.07	<5	<50	35.6	3	7	30.7	
A73012 (9803337)	<1	<10	<5	68	<10	<10	<5	<0.01	<5	<50	2.0	<1	3	5.7	
A73013 (9803338)	1	<10	<5	160	<10	<10	5	0.03	<5	<50	6.4	2	4	17.1	
A73014 (9803339)	<1	<10	<5	144	<10	<10	<5	0.01	<5	<50	2.1	3	3	12.5	
A73015 (9803340)	1	<10	<5	131	<10	<10	<5	0.03	<5	<50	4.1	5	6	19.8	
A73016 (9803341)	3	<10	5	141	<10	<10	9	0.01	<5	<50	2.4	3	19	17.9	
A73017 (9803342)	2	18	<5	109	<10	<10	5	0.01	<5	<50	3.7	5	8	22.8	
A73018 (9803343)	2	<10	<5	116	<10	<10	<5	0.01	<5	<50	3.8	5	8	24.1	
S09621 (9803344)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	
S09622 (9803345)	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 25, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A73002 (9803327)				40
A73003 (9803328)				16
A73004 (9803329)				27
A73005 (9803330)				18
A73006 (9803331)				60
A73007 (9803332)				20
A73008 (9803333)				69
A73009 (9803334)				14
A73010 (9803335)				13
A73011 (9803336)				72
A73012 (9803337)				<5
A73013 (9803338)				199
A73014 (9803339)				19
A73015 (9803340)				77
A73016 (9803341)				144
A73017 (9803342)				44
A73018 (9803343)				45
S09621 (9803344)				NSS
S09622 (9803345)				NSS

Comments: RDL - Reported Detection Limit  
 9803327-9803345 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 25, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A73002 (9803327)				0.045
A73003 (9803328)				0.194
A73004 (9803329)				0.007
A73005 (9803330)				0.083
A73006 (9803331)				0.552
A73007 (9803332)				0.005
A73008 (9803333)				0.002
A73009 (9803334)				0.007
A73010 (9803335)				0.004
A73011 (9803336)				0.008
A73012 (9803337)				0.002
A73013 (9803338)				0.004
A73014 (9803339)				0.001
A73015 (9803340)				0.002
A73016 (9803341)				0.002
A73017 (9803342)				0.004
A73018 (9803343)				0.003
S09621 (9803344)				NSS
S09622 (9803345)				NSS

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 25, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A73002 (9803327)		93
A73003 (9803328)		98

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423047

PROJECT: AGAT00499

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CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 25, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A73002 (9803327)	95

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9803327	< 0.5	< 0.5	0.0%	9803341	< 0.5	< 0.5	0.0%								
Al	9803327	6.55	6.75	3.0%	9803341	8.60	8.39	2.5%								
As	9803327	< 1	< 1	0.0%	9803341	6	6	0.0%								
Ba	9803327	135	122	10.1%	9803341	180	181	0.6%								
Be	9803327	4.04	4.20	3.9%	9803341	1.8	1.8	0.0%								
Bi	9803327	2	2	0.0%	9803341	< 1	< 1	0.0%								
Ca	9803327	6.04	6.10	1.0%	9803341	1.65	1.62	1.8%								
Cd	9803327	< 0.5	< 0.5	0.0%	9803341	< 0.5	< 0.5	0.0%								
Ce	9803327	8	7	13.3%	9803341	7	7	0.0%								
Co	9803327	39.7	39.9	0.5%	9803341	0.6	0.5	18.2%								
Cr	9803327	253	253	0.0%	9803341	21.3	25.3	17.2%								
Cu	9803327	121	118	2.5%	9803341	9.62	10.1	4.9%								
Fe	9803327	6.61	6.86	3.7%	9803341	0.785	0.777	1.0%								
Ga	9803327	31	31	0.0%	9803341	18	20	10.5%								
In	9803327	< 1	< 1	0.0%	9803341	< 1	< 1	0.0%								
K	9803327	0.585	0.589	0.7%	9803341	2.82	2.81	0.4%								
La	9803327	4	3	28.6%	9803341	2	2	0.0%								
Li	9803327	24	24	0.0%	9803341	3	3	0.0%								
Mg	9803327	4.57	4.73	3.4%	9803341	0.139	0.135	2.9%								
Mn	9803327	1160	1190	2.6%	9803341	723	703	2.8%								
Mo	9803327	4.27	3.79	11.9%	9803341	9.55	10.1	5.6%								
Na	9803327	2.65	2.64	0.4%	9803341	3.91	3.86	1.3%								
Ni	9803327	97.5	98.9	1.4%	9803341	4.9	4.8	2.1%								
P	9803327	233	198	16.2%	9803341	30	34	12.5%								
Pb	9803327	< 20	< 20	0.0%	9803341	28	31	10.2%								
Rb	9803327	< 50	< 50	0.0%	9803341	< 50	< 50	0.0%								
S	9803327	< 0.01	< 0.01	0.0%	9803341	0.02	0.02	0.0%								
Sb	9803327	< 1	< 1	0.0%	9803341	< 1	< 1	0.0%								
Sc	9803327	42	42	0.0%	9803341	3	3	0.0%								
Se	9803327	< 10	< 10	0.0%	9803341	< 10	< 10	0.0%								
Sn	9803327	< 5	< 5	0.0%	9803341	5	< 5									





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803327	110	104	5.6%	9803341	141	139	1.4%												
Ta	9803327	< 10	< 10	0.0%	9803341	< 10	< 10	0.0%												
Te	9803327	< 10	< 10	0.0%	9803341	< 10	< 10	0.0%												
Th	9803327	< 5	< 5	0.0%	9803341	9	11	20.0%												
Ti	9803327	0.33	0.34	3.0%	9803341	0.01	0.01	0.0%												
Tl	9803327	< 5	< 5	0.0%	9803341	< 5	< 5	0.0%												
U	9803327	< 50	< 50	0.0%	9803341	< 50	< 50	0.0%												
V	9803327	230	234	1.7%	9803341	2.4	2.4	0.0%												
W	9803327	5	6	18.2%	9803341	3	5													
Y	9803327	17	18	5.7%	9803341	19	19	0.0%												
Zn	9803327	148	154	4.0%	9803341	17.9	16.2	10.0%												
Zr	9803327	40	41	2.5%	9803341	144	148	2.7%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2																
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD													
Au	9803327	0.045	0.015		9803341	0.002	0.002	0.0%													



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.32	94%	90% - 110%											
Ba	340	329	97%	90% - 110%											
Be	2.6	3.2	123%	90% - 110%											
Ca	5.72	5.4	94%	90% - 110%											
Ce	122	114	93%	90% - 110%											
Cu	7	7	103%	90% - 110%											
Fe	4.34	3.96	91%	90% - 110%											
Ga	35	38	108%	90% - 110%											
K	1.37	1.37	100%	90% - 110%											
La	58	47	81%	90% - 110%											
Li	37	37	99%	90% - 110%											
Mg	0.325	0.294	90%	90% - 110%											
Na	5.267	5.218	99%	90% - 110%											
Ni	9	6	71%	90% - 110%											
Sr	1191	1154	97%	90% - 110%											
Ti	0.172	0.156	91%	90% - 110%											
V	8	9	110%	90% - 110%											
Y	119	117	98%	90% - 110%											
Zn	93	89	95%	90% - 110%											

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	2.01	2.35	117%	90% - 110%	0.468	0.501	107%	90% - 110%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00499  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423047  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00500

AGAT WORK ORDER: 18B423048

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 16, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 16, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A73019 (9803346)		0.58
A73020 (9803347)		0.81
A73021 (9803348)		2.22
A73022 (9803349)		2.86
A73023 (9803350)		2.59
A73024 (9803351)		2.14
A73025 (9803352)		1.97
A73026 (9803353)		0.07
A73027 (9803354)		2.51
A73028 (9803355)		2.78
A73029 (9803356)		2.87
A73030 (9803357)		2.89
A73031 (9803358)		3.05
A73032 (9803359)		1.58
A73033 (9803360)		3.15

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 16, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A73019 (9803346)	<0.5	6.87	<1	92	0.7	<1	8.57	<0.5	3	41.0	295	58.4	6.91	23.0	
A73020 (9803347)	<0.5	7.34	<1	110	0.7	<1	8.49	<0.5	3	40.4	278	57.6	6.92	24.0	
A73021 (9803348)	<0.5	7.06	<1	84	0.8	<1	7.50	<0.5	3	42.8	339	96.9	7.14	27.0	
A73022 (9803349)	<0.5	6.75	<1	92	0.8	<1	7.54	<0.5	2	39.4	321	70.3	6.70	26.0	
A73023 (9803350)	<0.5	6.87	<1	62	0.8	<1	7.80	<0.5	3	37.8	194	187	6.99	24.0	
A73024 (9803351)	<0.5	6.72	<1	32	1.7	<1	8.80	<0.5	3	39.4	202	66.1	7.53	25.0	
A73025 (9803352)	<0.5	7.07	<1	77	1.0	<1	7.92	<0.5	3	41.3	217	41.2	7.68	25.0	
A73026 (9803353)	<0.5	7.40	<1	162	0.9	<1	6.53	<0.5	19	39.3	146	105	7.98	31.0	
A73027 (9803354)	<0.5	6.87	<1	192	1.2	<1	8.53	<0.5	3	41.6	214	105	7.77	25.0	
A73028 (9803355)	<0.5	7.00	<1	61	1.4	<1	7.65	<0.5	3	42.1	212	44.0	7.69	27.0	
A73029 (9803356)	<0.5	7.55	<1	58	0.8	1	8.44	<0.5	3	41.6	219	82.3	8.46	27.0	
A73030 (9803357)	<0.5	7.08	<1	71	0.9	<1	8.09	<0.5	3	42.5	206	66.6	7.64	28.0	
A73031 (9803358)	<0.5	6.81	<1	80	0.9	<1	8.19	<0.5	3	40.3	202	79.5	7.34	25.0	
A73032 (9803359)	<0.5	0.14	<1	14	<0.5	<1	32.1	<0.5	<1	0.9	5.4	<0.5	0.21	6.00	
A73033 (9803360)	<0.5	6.75	2	161	1.1	<1	6.73	<0.5	14	28.5	120	79.1	5.52	20.0	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 16, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A73019 (9803346)	<1	0.35	3	18	4.86	1240	7.0	1.60	119	157	<20	<50	0.04	2	
A73020 (9803347)	<1	0.44	3	14	4.88	1170	5.8	1.53	116	158	<20	<50	0.02	3	
A73021 (9803348)	<1	0.36	2	23	4.84	1210	5.0	1.73	122	151	<20	<50	0.08	<1	
A73022 (9803349)	<1	0.31	2	18	4.51	1180	5.6	1.18	107	153	<20	<50	0.04	2	
A73023 (9803350)	<1	0.25	2	16	4.27	1180	4.4	1.43	92.0	156	<20	<50	0.09	1	
A73024 (9803351)	<1	0.22	2	16	4.41	1330	4.7	1.53	93.0	160	<20	<50	0.06	1	
A73025 (9803352)	<1	0.32	3	19	4.58	1330	3.9	1.72	101	181	<20	<50	0.05	<1	
A73026 (9803353)	<1	0.43	9	10	4.16	1310	0.6	2.30	109	898	<20	<50	0.09	<1	
A73027 (9803354)	<1	0.53	3	23	4.34	1330	3.9	1.14	95.4	178	<20	<50	0.07	2	
A73028 (9803355)	<1	0.32	3	19	4.63	1290	3.8	1.71	98.6	161	<20	<50	0.03	2	
A73029 (9803356)	<1	0.25	2	19	4.95	1440	4.1	1.55	99.9	162	<20	<50	0.07	2	
A73030 (9803357)	<1	0.20	2	10	4.66	1290	4.0	1.42	98.5	169	<20	<50	0.05	2	
A73031 (9803358)	<1	0.26	2	14	4.35	1230	4.4	1.35	94.9	167	<20	<50	0.05	2	
A73032 (9803359)	<1	0.01	3	1	2.61	65	1.9	0.05	1.4	78	<20	<50	0.02	<1	
A73033 (9803360)	<1	0.67	7	45	2.97	928	2.3	1.69	72.3	318	<20	<50	0.14	2	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 16, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A73019 (9803346)	42	<10	<5	153	<10	<10	<5	0.31	<5	<50	223	7	13	66.4	
A73020 (9803347)	42	<10	<5	184	<10	<10	<5	0.32	<5	<50	226	5	13	58.2	
A73021 (9803348)	45	<10	<5	113	<10	<10	<5	0.32	<5	<50	237	3	13	60.9	
A73022 (9803349)	42	<10	<5	127	<10	<10	<5	0.32	<5	<50	231	6	13	62.9	
A73023 (9803350)	40	<10	<5	160	<10	<10	<5	0.34	<5	<50	222	4	13	62.6	
A73024 (9803351)	42	<10	<5	120	<10	<10	<5	0.36	<5	<50	231	4	15	67.2	
A73025 (9803352)	45	<10	<5	128	<10	<10	<5	0.38	<5	<50	249	5	15	72.9	
A73026 (9803353)	35	<10	<5	246	<10	<10	<5	0.85	<5	<50	244	4	22	85.3	
A73027 (9803354)	43	<10	<5	110	<10	<10	<5	0.36	<5	<50	238	8	15	71.9	
A73028 (9803355)	47	<10	<5	126	<10	<10	<5	0.36	<5	<50	247	4	15	64.5	
A73029 (9803356)	45	<10	<5	140	<10	<10	<5	0.40	<5	<50	248	4	15	71.0	
A73030 (9803357)	44	<10	<5	137	<10	<10	<5	0.37	<5	<50	243	5	15	67.3	
A73031 (9803358)	43	<10	<5	140	<10	<10	<5	0.35	<5	<50	239	3	14	65.2	
A73032 (9803359)	<1	<10	<5	67	<10	<10	<5	0.01	<5	<50	3.9	<1	2	0.8	
A73033 (9803360)	27	<10	<5	167	<10	<10	<5	0.34	<5	<50	159	4	12	63.2	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 16, 2019      SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
RDL:	5
Sample ID (AGAT ID)	
A73019 (9803346)	9
A73020 (9803347)	9
A73021 (9803348)	9
A73022 (9803349)	8
A73023 (9803350)	7
A73024 (9803351)	8
A73025 (9803352)	8
A73026 (9803353)	92
A73027 (9803354)	9
A73028 (9803355)	17
A73029 (9803356)	9
A73030 (9803357)	8
A73031 (9803358)	8
A73032 (9803359)	<5
A73033 (9803360)	32

Comments: RDL - Reported Detection Limit  
 9803346-9803360 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 16, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A73019 (9803346)			0.011
A73020 (9803347)			0.003
A73021 (9803348)			0.005
A73022 (9803349)			0.003
A73023 (9803350)			0.009
A73024 (9803351)			0.003
A73025 (9803352)			0.004
A73026 (9803353)			0.328
A73027 (9803354)			0.011
A73028 (9803355)			0.002
A73029 (9803356)			0.004
A73030 (9803357)			0.005
A73031 (9803358)			0.004
A73032 (9803359)			0.001
A73033 (9803360)			0.003

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 16, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A73019 (9803346)	99

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423048

PROJECT: AGAT00500

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 16, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A73019 (9803346)	98

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9803346	< 0.5	< 0.5	0.0%	9803360	< 0.5	< 0.5	0.0%				
Al	9803346	6.87	6.68	2.8%	9803360	6.75	6.77	0.3%				
As	9803346	< 1	< 1	0.0%	9803360	2	< 1					
Ba	9803346	92	90	2.2%	9803360	161	166	3.1%				
Be	9803346	0.74	0.79	6.5%	9803360	1.1	1.1	0.0%				
Bi	9803346	< 1	< 1	0.0%	9803360	< 1	< 1	0.0%				
Ca	9803346	8.57	8.17	4.8%	9803360	6.73	6.70	0.4%				
Cd	9803346	< 0.5	< 0.5	0.0%	9803360	< 0.5	< 0.5	0.0%				
Ce	9803346	3	2		9803360	14	14	0.0%				
Co	9803346	41.0	38.8	5.5%	9803360	28.5	28.7	0.7%				
Cr	9803346	295	275	7.0%	9803360	120	116	3.4%				
Cu	9803346	58.4	53.0	9.7%	9803360	79.1	81.3	2.7%				
Fe	9803346	6.91	6.80	1.6%	9803360	5.52	5.54	0.4%				
Ga	9803346	23.0	22.0	4.4%	9803360	20.0	22.0	9.5%				
In	9803346	< 1	< 1	0.0%	9803360	< 1	< 1	0.0%				
K	9803346	0.35	0.34	2.9%	9803360	0.67	0.67	0.0%				
La	9803346	3	3	0.0%	9803360	7	7	0.0%				
Li	9803346	18	18	0.0%	9803360	45	45	0.0%				
Mg	9803346	4.86	4.73	2.7%	9803360	2.97	3.00	1.0%				
Mn	9803346	1240	1210	2.4%	9803360	928	934	0.6%				
Mo	9803346	7.0	7.2	2.8%	9803360	2.29	2.00	13.5%				
Na	9803346	1.60	1.53	4.5%	9803360	1.69	1.68	0.6%				
Ni	9803346	119	112	6.1%	9803360	72.3	70.2	2.9%				
P	9803346	157	155	1.3%	9803360	318	314	1.3%				
Pb	9803346	< 20	< 20	0.0%	9803360	< 20	< 20	0.0%				
Rb	9803346	< 50	< 50	0.0%	9803360	< 50	< 50	0.0%				
S	9803346	0.04	0.04	0.0%	9803360	0.141	0.147	4.2%				
Sb	9803346	2	2	0.0%	9803360	2	< 1					
Sc	9803346	42	41	2.4%	9803360	27	28	3.6%				
Se	9803346	< 10	< 10	0.0%	9803360	< 10	< 10	0.0%				
Sn	9803346	< 5	< 5	0.0%	9803360	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803346	153	146	4.7%	9803360	167	166	0.6%									
Ta	9803346	< 10	< 10	0.0%	9803360	< 10	< 10	0.0%									
Te	9803346	< 10	< 10	0.0%	9803360	< 10	< 10	0.0%									
Th	9803346	< 5	< 5	0.0%	9803360	< 5	< 5	0.0%									
Ti	9803346	0.31	0.30	3.3%	9803360	0.34	0.34	0.0%									
Tl	9803346	< 5	< 5	0.0%	9803360	< 5	< 5	0.0%									
U	9803346	< 50	< 50	0.0%	9803360	< 50	< 50	0.0%									
V	9803346	223	212	5.1%	9803360	159	160	0.6%									
W	9803346	7	6	15.4%	9803360	4	5	22.2%									
Y	9803346	13	12	8.0%	9803360	12	12	0.0%									
Zn	9803346	66.4	63.2	4.9%	9803360	63.2	64.9	2.7%									
Zr	9803346	9	9	0.0%	9803360	32	33	3.1%									
<b>(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)</b>																	
	REPLICATE #1				REPLICATE #2												
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	9803346	0.011	0.006		9803360	0.003	0.003	0.0%									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.72	98%	90% - 110%												
Ba	340	323	95%	90% - 110%												
Be	2.6	2.7	105%	90% - 110%												
Ca	5.72	5.54	97%	90% - 110%												
Ce	122	117	96%	90% - 110%												
Cu	7	5	78%	90% - 110%												
Fe	4.34	4.2	97%	90% - 110%												
Ga	35	35	101%	90% - 110%												
K	1.37	1.42	103%	90% - 110%												
La	58	51	88%	90% - 110%												
Li	37	38	102%	90% - 110%												
Mg	0.325	0.292	90%	90% - 110%												
Na	5.267	5.194	99%	90% - 110%												
Pb	10	8	81%	90% - 110%												
Sc	1.1	0.8	70%	90% - 110%												
Sr	1191	1155	97%	90% - 110%												
Ti	0.172	0.164	95%	90% - 110%												
V	8	6	73%	90% - 110%												
Y	119	120	100%	90% - 110%												
Zn	93	90	97%	90% - 110%												

(202-052) Fire Assay - Trace Au, ICP-OES finish (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.08	103%	90% - 110%	0.468	0.496	106%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00500  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423048  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES
Pass %			BALANCE





CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00501

AGAT WORK ORDER: 18B423049

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 22, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A73034 (9803361)		0.92
A73035 (9803362)		0.74
A73036 (9803363)		2.25
A73037 (9803364)		2.48
A73038 (9803365)		1.94
A73039 (9803366)		2.06
A73040 (9803367)		1.23
A73041 (9803368)		0.57
A73042 (9803369)		1.36
A73043 (9803370)		1.39
A73044 (9803371)		1.14
A73045 (9803372)		0.77
A73046 (9803373)		0.07
A73047 (9803374)		1.19
A73048 (9803375)		2.03
A73049 (9803376)		2.47
A73050 (9803377)		3.22
A73051 (9803378)		2.80
A73052 (9803379)		1.20
A73053 (9803380)		2.04
A73054 (9803381)		1.90
A73055 (9803382)		2.24

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018							DATE REPORTED: Jan 22, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A73034 (9803361)	<0.5	7.22	15	470	1.6	<1	2.49	<0.5	39	16.5	60.6	33.2	3.62	29	
A73035 (9803362)	<0.5	8.20	8	557	1.8	<1	1.94	<0.5	68	22.4	108	41.8	4.89	34	
A73036 (9803363)	<0.5	8.05	4	495	2.0	<1	1.67	<0.5	64	22.5	93.6	42.2	4.41	33	
A73037 (9803364)	<0.5	8.37	<1	496	1.6	<1	1.69	<0.5	63	23.5	103	53.0	4.79	33	
A73038 (9803365)	<0.5	8.33	2	524	1.5	<1	1.68	<0.5	66	23.2	103	53.0	4.73	34	
A73039 (9803366)	<0.5	8.02	<1	458	1.5	<1	1.57	<0.5	60	23.4	104	48.4	4.77	32	
A73040 (9803367)	<0.5	8.46	23	498	1.9	<1	2.16	<0.5	48	22.2	118	30.3	5.72	33	
A73041 (9803368)	<0.5	8.21	20	502	2.2	<1	2.67	<0.5	49	25.4	141	68.2	5.55	32	
A73042 (9803369)	<0.5	8.86	4	454	2.3	<1	2.88	<0.5	45	23.1	88.2	53.3	5.11	31	
A73043 (9803370)	<0.5	8.28	4	454	2.5	<1	2.33	<0.5	41	25.9	90.0	54.5	5.65	32	
A73044 (9803371)	<0.5	8.07	7	341	1.3	<1	2.58	<0.5	28	23.1	80.1	52.1	5.76	29	
A73045 (9803372)	<0.5	8.10	42	571	1.7	<1	2.12	<0.5	72	21.3	101	26.5	5.02	33	
A73046 (9803373)	<0.5	7.15	<1	174	1.8	<1	6.44	<0.5	17	37.1	166	104	7.75	38	
A73047 (9803374)	<0.5	8.25	53	416	1.6	<1	2.31	<0.5	46	25.9	137	47.2	6.06	34	
A73048 (9803375)	<0.5	8.08	14	515	8.1	<1	2.41	<0.5	81	17.4	64.2	47.5	3.85	30	
A73049 (9803376)	<0.5	6.58	9	221	4.8	<1	8.34	<0.5	19	28.4	92.1	83.9	5.94	30	
A73050 (9803377)	<0.5	6.42	15	129	2.8	<1	8.81	<0.5	8	32.0	111	86.5	5.22	33	
A73051 (9803378)	<0.5	7.55	<1	185	0.7	<1	7.18	<0.5	8	37.9	143	105	6.60	32	
A73052 (9803379)	<0.5	0.12	<1	16	<0.5	2	31.1	<0.5	<1	1.1	4.3	<0.5	0.20	17	
A73053 (9803380)	<0.5	7.25	<1	289	1.0	<1	7.01	<0.5	9	36.9	134	99.8	6.52	35	
A73054 (9803381)	<0.5	7.44	3	213	0.8	<1	7.64	<0.5	10	37.2	146	84.1	6.97	36	
A73055 (9803382)	<0.5	7.74	<1	195	0.8	<1	7.87	<0.5	9	37.6	151	95.4	7.10	36	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 22, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A73034 (9803361)	<1	1.63	20	25	1.26	599	4.4	2.05	62.5	451	<20	<50	0.07	<1	
A73035 (9803362)	<1	1.94	33	43	1.68	687	7.6	1.87	101	635	<20	<50	0.10	<1	
A73036 (9803363)	<1	1.76	31	37	1.52	571	7.6	1.87	92.2	579	<20	<50	0.11	<1	
A73037 (9803364)	<1	1.91	31	38	1.71	649	8.3	1.99	97.7	616	<20	<50	0.13	2	
A73038 (9803365)	<1	1.91	32	37	1.69	644	8.0	2.08	97.1	610	<20	<50	0.13	1	
A73039 (9803366)	<1	1.80	30	35	1.67	659	8.1	1.94	92.2	646	<20	<50	0.13	3	
A73040 (9803367)	<1	2.01	23	35	1.78	870	9.1	2.16	102	496	<20	<50	0.08	3	
A73041 (9803368)	<1	1.31	24	29	1.80	901	7.4	2.37	113	648	<20	<50	0.18	<1	
A73042 (9803369)	<1	1.56	22	30	1.36	798	6.5	2.75	82.2	501	<20	<50	0.15	1	
A73043 (9803370)	<1	1.59	19	33	1.60	820	6.2	2.21	82.6	475	<20	<50	0.16	<1	
A73044 (9803371)	<1	1.29	14	29	1.49	924	7.2	1.78	69.7	411	<20	<50	0.13	<1	
A73045 (9803372)	<1	1.69	34	32	1.67	837	9.5	1.86	86.7	682	<20	<50	0.08	<1	
A73046 (9803373)	<1	0.42	10	10	4.26	1350	1.6	2.23	105	847	<20	<50	0.09	<1	
A73047 (9803374)	<1	1.62	22	30	1.96	978	8.2	1.85	110	522	<20	<50	0.15	<1	
A73048 (9803375)	<1	2.31	38	26	1.13	527	7.8	3.80	71.4	684	<20	<50	0.14	1	
A73049 (9803376)	<1	0.60	10	26	2.77	999	3.1	2.92	75.6	413	<20	<50	0.11	2	
A73050 (9803377)	<1	0.96	5	26	3.17	1070	2.0	2.96	92.9	503	<20	<50	0.06	<1	
A73051 (9803378)	<1	0.87	6	15	4.61	1260	3.0	1.61	106	198	<20	<50	0.09	1	
A73052 (9803379)	<1	0.02	3	2	3.38	71	2.3	0.05	6.0	95	<20	<50	0.02	<1	
A73053 (9803380)	<1	0.83	6	20	4.24	1240	3.3	1.43	103	221	<20	<50	0.08	<1	
A73054 (9803381)	<1	0.60	7	13	4.44	1310	3.5	1.62	100	231	<20	<50	0.07	<1	
A73055 (9803382)	<1	0.55	6	12	4.77	1300	4.7	1.45	109	213	<20	<50	0.07	5	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 22, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A73034 (9803361)	16	<10	<5	314	<10	<10	<5	0.36	<5	<50	110	5	13	72.3	
A73035 (9803362)	21	<10	<5	294	<10	<10	<5	0.45	<5	<50	147	3	16	107	
A73036 (9803363)	21	<10	<5	328	<10	<10	<5	0.41	<5	<50	143	4	15	89.7	
A73037 (9803364)	20	<10	<5	335	<10	<10	<5	0.43	<5	<50	145	3	15	92.6	
A73038 (9803365)	20	<10	<5	336	<10	<10	<5	0.43	<5	<50	144	4	15	97.6	
A73039 (9803366)	20	<10	<5	320	<10	<10	<5	0.42	<5	<50	140	3	16	94.3	
A73040 (9803367)	23	<10	<5	322	<10	<10	<5	0.42	<5	<50	148	3	18	94.7	
A73041 (9803368)	24	<10	<5	316	<10	<10	<5	0.44	<5	<50	166	3	18	100	
A73042 (9803369)	21	<10	<5	292	<10	<10	<5	0.45	<5	<50	150	4	16	165	
A73043 (9803370)	24	<10	<5	288	<10	<10	<5	0.50	<5	<50	172	5	17	109	
A73044 (9803371)	24	<10	<5	326	<10	<10	<5	0.53	<5	<50	173	1	17	181	
A73045 (9803372)	20	<10	<5	395	<10	<10	<5	0.41	<5	<50	134	3	16	196	
A73046 (9803373)	32	<10	<5	243	<10	<10	<5	0.90	<5	<50	226	2	21	86.3	
A73047 (9803374)	25	<10	<5	330	<10	<10	<5	0.51	<5	<50	185	4	17	235	
A73048 (9803375)	11	<10	<5	316	<10	<10	<5	0.30	<5	<50	88.8	6	12	227	
A73049 (9803376)	34	<10	<5	199	<10	<10	<5	0.29	<5	<50	184	4	21	85.6	
A73050 (9803377)	46	<10	<5	199	<10	<10	<5	0.25	<5	<50	204	4	19	74.8	
A73051 (9803378)	36	<10	<5	149	<10	<10	<5	0.34	<5	<50	196	3	13	79.5	
A73052 (9803379)	<1	<10	<5	64	<10	<10	<5	<0.01	<5	<50	3.3	2	2	1.7	
A73053 (9803380)	35	<10	<5	141	<10	<10	<5	0.35	<5	<50	198	3	14	83.1	
A73054 (9803381)	36	<10	<5	149	<10	<10	<5	0.39	<5	<50	212	5	15	86.3	
A73055 (9803382)	37	<10	<5	134	<10	<10	<5	0.38	<5	<50	209	4	14	79.8	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A73034 (9803361)				85
A73035 (9803362)				124
A73036 (9803363)				111
A73037 (9803364)				107
A73038 (9803365)				107
A73039 (9803366)				95
A73040 (9803367)				97
A73041 (9803368)				92
A73042 (9803369)				100
A73043 (9803370)				100
A73044 (9803371)				85
A73045 (9803372)				109
A73046 (9803373)				88
A73047 (9803374)				94
A73048 (9803375)				122
A73049 (9803376)				62
A73050 (9803377)				31
A73051 (9803378)				38
A73052 (9803379)				<5
A73053 (9803380)				42
A73054 (9803381)				43
A73055 (9803382)				41

Comments: RDL - Reported Detection Limit  
9803361-9803382 As, Sb values may be low due to digestion losses.

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A73034 (9803361)			0.008
A73035 (9803362)			0.282
A73036 (9803363)			0.016
A73037 (9803364)			0.004
A73038 (9803365)			0.004
A73039 (9803366)			0.004
A73040 (9803367)			0.412
A73041 (9803368)			0.003
A73042 (9803369)			0.005
A73043 (9803370)			0.003
A73044 (9803371)			0.002
A73045 (9803372)			0.004
A73046 (9803373)			0.347
A73047 (9803374)			0.002
A73048 (9803375)			0.004
A73049 (9803376)			0.005
A73050 (9803377)			0.005
A73051 (9803378)			0.005
A73052 (9803379)			0.001
A73053 (9803380)			0.004
A73054 (9803381)			0.005
A73055 (9803382)			0.004

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A73034 (9803361)		98
A73053 (9803380)		94

Comments: RDL - Reported Detection Limit

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 18B423049

PROJECT: AGAT00501

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 22, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A73034 (9803361)	86

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9803361	< 0.5	< 0.5	0.0%	9803375	< 0.5	< 0.5	0.0%								
Al	9803361	7.22	7.31	1.2%	9803375	8.08	8.18	1.2%								
As	9803361	15	19	23.5%	9803375	14	15	6.9%								
Ba	9803361	470	470	0.0%	9803375	515	527	2.3%								
Be	9803361	1.6	1.5	6.5%	9803375	8.1	8.1	0.0%								
Bi	9803361	< 1	< 1	0.0%	9803375	< 1	< 1	0.0%								
Ca	9803361	2.49	2.49	0.0%	9803375	2.41	2.44	1.2%								
Cd	9803361	< 0.5	< 0.5	0.0%	9803375	< 0.5	< 0.5	0.0%								
Ce	9803361	39	39	0.0%	9803375	81	82	1.2%								
Co	9803361	16.5	16.6	0.6%	9803375	17.4	17.5	0.6%								
Cr	9803361	60.6	60.1	0.8%	9803375	64.2	66.4	3.4%								
Cu	9803361	33.2	37.5	12.2%	9803375	47.5	48.0	1.0%								
Fe	9803361	3.62	3.76	3.8%	9803375	3.85	3.91	1.5%								
Ga	9803361	29	27	7.1%	9803375	30	30	0.0%								
In	9803361	< 1	< 1	0.0%	9803375	< 1	< 1	0.0%								
K	9803361	1.63	1.65	1.2%	9803375	2.31	2.36	2.1%								
La	9803361	20	19	5.1%	9803375	38	39	2.6%								
Li	9803361	25	27	7.7%	9803375	26	27	3.8%								
Mg	9803361	1.26	1.27	0.8%	9803375	1.13	1.15	1.8%								
Mn	9803361	599	588	1.9%	9803375	527	535	1.5%								
Mo	9803361	4.4	5.3	18.6%	9803375	7.79	7.12	9.0%								
Na	9803361	2.05	2.05	0.0%	9803375	3.80	3.88	2.1%								
Ni	9803361	62.5	72.0	14.1%	9803375	71.4	71.6	0.3%								
P	9803361	451	448	0.7%	9803375	684	675	1.3%								
Pb	9803361	< 20	< 20	0.0%	9803375	< 20	< 20	0.0%								
Rb	9803361	< 50	< 50	0.0%	9803375	< 50	< 50	0.0%								
S	9803361	0.075	0.081	7.7%	9803375	0.144	0.145	0.7%								
Sb	9803361	< 1	1		9803375	1	< 1									
Sc	9803361	16	15	6.5%	9803375	11	11	0.0%								
Se	9803361	< 10	< 10	0.0%	9803375	< 10	< 10	0.0%								
Sn	9803361	< 5	< 5	0.0%	9803375	< 5	< 5	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.72	98%	90% - 110%												
Ba	340	342	101%	90% - 110%												
Be	2.6	2.6	102%	90% - 110%												
Ca	5.72	5.59	98%	90% - 110%												
Ce	122	120	99%	90% - 110%												
Fe	4.34	4.23	97%	90% - 110%												
Ga	35	33	96%	90% - 110%												
K	1.37	1.39	102%	90% - 110%												
La	58	55	95%	90% - 110%												
Li	37	38	102%	90% - 110%												
Mg	0.325	0.307	95%	90% - 110%												
Na	5.267	5.259	100%	90% - 110%												
Sr	1191	1206	101%	90% - 110%												
Ti	0.172	0.176	102%	90% - 110%												
Y	119	117	98%	90% - 110%												
Zn	93	96	103%	90% - 110%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.15	107%	90% - 110%	0.468	0.462	99%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00501  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423049  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00502

AGAT WORK ORDER: 18B423050

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 15, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
A73056 (9803383)		0.58
A73057 (9803384)		2.22
A73058 (9803385)		1.50
A73059 (9803386)		1.33
A73060 (9803387)		1.72
A73061 (9803388)		1.69
A73062 (9803389)		1.74
A73063 (9803390)		3.36
A73064 (9803391)		3.45
A73065 (9803392)		2.50
A73066 (9803393)		0.07
A73067 (9803394)		2.55
A73068 (9803395)		2.57
A73069 (9803396)		2.30
A73070 (9803397)		2.50
A73071 (9803398)		2.68
A73072 (9803399)		1.70
A73073 (9803400)		2.93
A73074 (9803401)		2.66
A73075 (9803402)		2.40
A73076 (9803403)		2.49
A73077 (9803404)		2.53
A73078 (9803405)		2.01

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018			DATE REPORTED: Jan 15, 2019			SAMPLE TYPE: Drill Core							
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
A73056 (9803383)	<0.5	6.34	1	180	1.10	4	6.36	<0.5	16	31.9	73.4	78.7	8.53	26.0
A73057 (9803384)	<0.5	6.66	<1	109	5.20	6	6.18	<0.5	15	30.8	74.6	75.2	9.25	30.0
A73058 (9803385)	<0.5	6.38	<1	107	5.70	1	5.84	<0.5	15	35.7	78.3	72.0	8.71	33.0
A73059 (9803386)	<0.5	6.72	<1	86	1.80	<1	5.64	<0.5	16	37.3	86.4	69.8	8.94	34.0
A73060 (9803387)	<0.5	6.87	<1	84	1.70	8	6.02	<0.5	11	37.5	77.4	102	10.1	33.0
A73061 (9803388)	<0.5	6.79	<1	85	1.60	4	6.13	<0.5	11	35.4	75.7	63.9	10.0	34.0
A73062 (9803389)	<0.5	6.12	<1	48	1.80	3	5.14	<0.5	11	36.3	35.7	95.5	9.82	33.0
A73063 (9803390)	<0.5	6.50	<1	43	1.70	7	6.26	<0.5	11	35.3	51.1	99.8	11.2	32.0
A73064 (9803391)	<0.5	6.52	<1	64	1.00	8	6.81	<0.5	10	36.6	75.6	87.1	9.99	27.0
A73065 (9803392)	<0.5	6.53	<1	49	1.70	5	6.66	<0.5	10	40.5	80.4	94.1	10.2	37.0
A73066 (9803393)	<0.5	6.74	<1	128	1.10	<1	6.27	<0.5	8	38.9	183	148	7.45	32.0
A73067 (9803394)	<0.5	7.02	<1	57	1.30	4	5.48	<0.5	10	38.1	77.4	89.5	10.7	35.0
A73068 (9803395)	<0.5	6.80	<1	41	1.20	8	6.39	<0.5	9	39.3	102	117	10.3	31.0
A73069 (9803396)	<0.5	6.75	<1	78	1.10	4	5.82	<0.5	9	38.7	60.8	84.9	10.2	32.0
A73070 (9803397)	<0.5	6.57	<1	952	3.40	<1	3.83	<0.5	47	21.0	104	52.3	5.17	25.0
A73071 (9803398)	<0.5	7.27	<1	753	0.700	1	2.94	<0.5	43	17.7	123	34.7	4.48	22.0
A73072 (9803399)	<0.5	0.15	3	23	< 0.5	<1	30.4	<0.5	<1	0.8	8.1	<0.5	0.18	6.00
A73073 (9803400)	<0.5	6.84	<1	597	0.900	<1	4.22	<0.5	39	19.8	140	42.0	4.60	23.0
A73074 (9803401)	<0.5	7.12	1	654	0.600	2	3.08	<0.5	40	17.6	128	36.8	4.66	22.0
A73075 (9803402)	<0.5	6.88	2	496	0.800	<1	2.84	<0.5	39	18.5	136	180	4.62	20.0
A73076 (9803403)	<0.5	7.59	<1	532	0.600	3	2.91	<0.5	47	14.9	107	43.0	4.15	20.0
A73077 (9803404)	<0.5	7.29	<1	511	0.600	<1	2.95	<0.5	47	14.0	95.9	30.8	3.89	19.0
A73078 (9803405)	<0.5	7.22	<1	476	0.600	<1	2.84	<0.5	47	15.9	107	29.1	3.92	21.0

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 15, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A73056 (9803383)	<1	0.70	7	15	2.68	1390	1.3	1.72	50.6	414	<20	<50	0.09	<1	
A73057 (9803384)	<1	0.62	6	21	2.84	1460	2.2	2.29	53.3	411	<20	<50	0.10	<1	
A73058 (9803385)	<1	0.60	6	20	2.73	1430	1.3	2.15	58.0	450	<20	<50	0.10	2	
A73059 (9803386)	<1	0.28	7	11	2.70	1690	2.1	1.91	60.4	476	<20	<50	0.12	<1	
A73060 (9803387)	<1	0.29	5	13	2.71	1620	2.7	2.10	53.8	412	<20	<50	0.13	<1	
A73061 (9803388)	<1	0.28	4	20	2.48	1520	2.6	2.09	52.3	409	<20	<50	0.11	3	
A73062 (9803389)	<1	0.18	5	21	2.63	1530	2.1	1.80	31.8	471	<20	<50	0.14	<1	
A73063 (9803390)	<1	0.17	4	16	2.73	1910	2.2	1.78	40.0	438	<20	<50	0.17	3	
A73064 (9803391)	<1	0.18	4	15	2.77	1670	2.5	1.97	55.3	403	<20	<50	0.12	1	
A73065 (9803392)	<1	0.20	4	20	2.69	1540	3.0	1.78	58.1	430	<20	<50	0.14	3	
A73066 (9803393)	<1	0.19	4	11	4.08	1280	<0.5	2.20	83.9	384	<20	<50	0.14	<1	
A73067 (9803394)	<1	0.18	4	16	3.04	1600	2.7	2.32	52.0	413	<20	<50	0.12	2	
A73068 (9803395)	<1	0.17	3	16	3.41	1600	2.3	1.98	70.1	364	<20	<50	0.12	<1	
A73069 (9803396)	<1	0.27	3	15	3.01	1570	2.8	1.91	47.0	364	<20	<50	0.11	2	
A73070 (9803397)	<1	0.93	20	22	1.79	945	3.9	3.13	56.4	570	<20	<50	0.17	<1	
A73071 (9803398)	<1	1.12	19	19	1.46	843	4.1	2.73	51.9	541	<20	<50	0.13	1	
A73072 (9803399)	<1	0.03	3	<1	2.30	70	1.3	0.07	1.2	80	<20	<50	0.03	<1	
A73073 (9803400)	<1	0.93	18	18	1.51	1050	3.7	2.36	58.4	549	<20	<50	0.18	2	
A73074 (9803401)	<1	1.31	18	24	1.51	925	3.4	2.49	55.9	521	<20	<50	0.14	2	
A73075 (9803402)	<1	1.20	17	19	1.47	875	3.4	2.35	56.5	519	<20	<50	0.17	2	
A73076 (9803403)	<1	1.35	20	21	1.33	763	3.3	2.73	47.3	531	<20	<50	0.17	<1	
A73077 (9803404)	<1	1.28	20	18	1.32	765	3.1	2.83	46.4	546	<20	<50	0.09	<1	
A73078 (9803405)	<1	1.22	21	18	1.32	780	3.1	2.69	50.3	575	<20	<50	0.09	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 15, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A73056 (9803383)	34	<10	<5	151	<10	<10	<5	0.64	<5	<50	262	2	25	189	
A73057 (9803384)	42	<10	<5	131	<10	<10	<5	0.73	<5	<50	316	3	29	112	
A73058 (9803385)	44	<10	<5	124	<10	<10	<5	0.69	<5	<50	327	4	30	109	
A73059 (9803386)	42	<10	<5	160	<10	<10	<5	0.76	<5	<50	319	3	28	109	
A73060 (9803387)	42	<10	<5	132	<10	<10	<5	0.81	<5	<50	322	2	28	111	
A73061 (9803388)	41	<10	<5	131	<10	<10	<5	0.81	<5	<50	315	3	28	99.7	
A73062 (9803389)	43	<10	<5	85	<10	<10	<5	0.87	<5	<50	349	2	32	94.0	
A73063 (9803390)	43	<10	<5	80	<10	<10	<5	0.87	<5	<50	341	3	31	152	
A73064 (9803391)	41	<10	<5	92	<10	<10	<5	0.80	<5	<50	309	3	27	118	
A73065 (9803392)	44	<10	<5	105	<10	<10	<5	0.80	<5	<50	346	5	29	113	
A73066 (9803393)	43	<10	<5	101	<10	<10	<5	0.61	<5	<50	307	1	21	72.0	
A73067 (9803394)	46	<10	<5	105	<10	<10	<5	0.87	<5	<50	359	4	30	114	
A73068 (9803395)	41	<10	<5	105	<10	<10	<5	0.78	<5	<50	304	5	26	119	
A73069 (9803396)	44	<10	<5	127	<10	<10	<5	0.80	<5	<50	350	4	28	117	
A73070 (9803397)	21	<10	<5	293	<10	<10	<5	0.37	<5	<50	156	5	16	70.1	
A73071 (9803398)	16	<10	<5	336	<10	<10	<5	0.37	<5	<50	124	4	14	68.9	
A73072 (9803399)	<1	<10	<5	67	<10	<10	<5	0.01	<5	<50	3.0	<1	2	<0.5	
A73073 (9803400)	17	<10	<5	402	<10	<10	<5	0.36	<5	<50	132	5	15	74.9	
A73074 (9803401)	17	<10	<5	366	<10	<10	<5	0.37	<5	<50	129	5	14	79.5	
A73075 (9803402)	17	<10	<5	340	<10	<10	<5	0.36	<5	<50	128	4	14	90.6	
A73076 (9803403)	14	<10	<5	417	<10	<10	<5	0.34	<5	<50	106	28	13	58.6	
A73077 (9803404)	13	<10	<5	410	<10	<10	<5	0.31	<5	<50	101	4	13	63.0	
A73078 (9803405)	14	<10	<5	387	<10	<10	<5	0.31	<5	<50	105	4	13	63.1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A73056 (9803383)				30
A73057 (9803384)				48
A73058 (9803385)				43
A73059 (9803386)				18
A73060 (9803387)				17
A73061 (9803388)				17
A73062 (9803389)				20
A73063 (9803390)				13
A73064 (9803391)				14
A73065 (9803392)				14
A73066 (9803393)				53
A73067 (9803394)				19
A73068 (9803395)				13
A73069 (9803396)				17
A73070 (9803397)				76
A73071 (9803398)				91
A73072 (9803399)				<5
A73073 (9803400)				69
A73074 (9803401)				80
A73075 (9803402)				85
A73076 (9803403)				86
A73077 (9803404)				86
A73078 (9803405)				86

Comments: RDL - Reported Detection Limit  
 9803383-9803405 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A73056 (9803383)			0.006
A73057 (9803384)			0.006
A73058 (9803385)			0.002
A73059 (9803386)			0.057
A73060 (9803387)			0.001
A73061 (9803388)			0.001
A73062 (9803389)			<0.001
A73063 (9803390)			<0.001
A73064 (9803391)			<0.001
A73065 (9803392)			0.001
A73066 (9803393)			0.503
A73067 (9803394)			0.002
A73068 (9803395)			0.002
A73069 (9803396)			0.003
A73070 (9803397)			0.001
A73071 (9803398)			0.005
A73072 (9803399)			0.001
A73073 (9803400)			0.007
A73074 (9803401)			0.008
A73075 (9803402)			0.014
A73076 (9803403)			0.012
A73077 (9803404)			0.002
A73078 (9803405)			0.004

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 15, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A73056 (9803383)		93
A73075 (9803402)		92

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423050

PROJECT: AGAT00502

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 15, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A73056 (9803383)	98

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9803383	< 0.5	< 0.5	0.0%	9803397	< 0.5	< 0.5	0.0%								
Al	9803383	6.34	6.14	3.2%	9803397	6.57	6.68	1.7%								
As	9803383	1	< 1		9803397	< 1	< 1	0.0%								
Ba	9803383	180	171	5.1%	9803397	952	926	2.8%								
Be	9803383	1.10	1.25	12.8%	9803397	3.40	3.4	0.0%								
Bi	9803383	4	2	66.7%	9803397	< 1	< 1	0.0%								
Ca	9803383	6.36	6.14	3.5%	9803397	3.83	3.91	2.1%								
Cd	9803383	< 0.5	< 0.5	0.0%	9803397	< 0.5	< 0.5	0.0%								
Ce	9803383	16	17	6.1%	9803397	47	47	0.0%								
Co	9803383	31.9	33.2	4.0%	9803397	21.0	20.9	0.5%								
Cr	9803383	73.4	77.9	5.9%	9803397	104	109	4.7%								
Cu	9803383	78.7	76.0	3.5%	9803397	52.3	51.9	0.8%								
Fe	9803383	8.53	8.34	2.3%	9803397	5.17	5.24	1.3%								
Ga	9803383	26.0	30.0	14.3%	9803397	25.0	26	3.9%								
In	9803383	< 1	< 1	0.0%	9803397	< 1	< 1	0.0%								
K	9803383	0.70	0.68	2.9%	9803397	0.930	0.945	1.6%								
La	9803383	7	7	0.0%	9803397	20	20	0.0%								
Li	9803383	15	15	0.0%	9803397	22	22	0.0%								
Mg	9803383	2.68	2.61	2.6%	9803397	1.79	1.82	1.7%								
Mn	9803383	1390	1360	2.2%	9803397	945	969	2.5%								
Mo	9803383	1.3	2.0	42.4%	9803397	3.9	4.5	14.3%								
Na	9803383	1.72	1.69	1.8%	9803397	3.13	3.14	0.3%								
Ni	9803383	50.6	51.5	1.8%	9803397	56.4	57.2	1.4%								
P	9803383	414	425	2.6%	9803397	570	571	0.2%								
Pb	9803383	< 20	< 20	0.0%	9803397	< 20	< 20	0.0%								
Rb	9803383	< 50	< 50	0.0%	9803397	< 50	< 50	0.0%								
S	9803383	0.090	0.085	5.7%	9803397	0.168	0.164	2.4%								
Sb	9803383	< 1	2		9803397	< 1	2									
Sc	9803383	34	35	2.9%	9803397	21	20	4.9%								
Se	9803383	< 10	< 10	0.0%	9803397	< 10	< 10	0.0%								
Sn	9803383	< 5	< 5	0.0%	9803397	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803383	151	148	2.0%	9803397	293	296	1.0%									
Ta	9803383	< 10	< 10	0.0%	9803397	< 10	< 10	0.0%									
Te	9803383	< 10	< 10	0.0%	9803397	< 10	< 10	0.0%									
Th	9803383	< 5	< 5	0.0%	9803397	< 5	< 5	0.0%									
Ti	9803383	0.64	0.63	1.6%	9803397	0.372	0.376	1.1%									
Tl	9803383	< 5	< 5	0.0%	9803397	< 5	< 5	0.0%									
U	9803383	< 50	< 50	0.0%	9803397	< 50	< 50	0.0%									
V	9803383	262	270	3.0%	9803397	156	152	2.6%									
W	9803383	2	3		9803397	5	4	22.2%									
Y	9803383	25	25	0.0%	9803397	16	16	0.0%									
Zn	9803383	189	191	1.1%	9803397	70.1	71.3	1.7%									
Zr	9803383	30	32	6.5%	9803397	76	76	0.0%									

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2												
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	9803383	0.006	0.008	28.6%	9803397	0.001	< 0.001										





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.49	96%	90% - 110%											
Ba	340	317	93%	90% - 110%											
Be	2.6	2.7	104%	90% - 110%											
Ca	5.72	5.24	92%	90% - 110%											
Ce	122	110	91%	90% - 110%											
Cu	7	5	78%	90% - 110%											
Fe	4.34	3.96	91%	90% - 110%											
Ga	35	35	100%	90% - 110%											
K	1.37	1.35	99%	90% - 110%											
La	58	49	85%	90% - 110%											
Li	37	37	101%	90% - 110%											
Mg	0.325	0.300	92%	90% - 110%											
Na	5.267	5.258	100%	90% - 110%											
Sr	1191	1084	91%	90% - 110%											
Ti	0.172	0.157	91%	90% - 110%											
V	8	6	73%	90% - 110%											
Y	119	108	91%	90% - 110%											
Zn	93	84	90%	90% - 110%											

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	2.01	2	99%	80% - 120%	0.468	0.49	105%	80% - 120%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00502  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423050  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00503

AGAT WORK ORDER: 18B423051

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 23, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 23, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A73079 (9803428)		1.49
A73080 (9803429)		1.98
A73081 (9803430)		2.67
A73082 (9803431)		2.44
A73083 (9803432)		2.15
A73084 (9803433)		3.46
A73085 (9803434)		2.37
A73086 (9803435)		0.07
A73087 (9803436)		3.14
A73088 (9803437)		2.75
A73089 (9803438)		2.33
A73090 (9803439)		2.15
A73091 (9803440)		2.20
A73092 (9803441)		1.48
A73093 (9803442)		2.67
A73094 (9803443)		2.51
A73095 (9803444)		2.84
A73096 (9803445)		2.80
A73097 (9803446)		2.95
A73098 (9803447)		2.27
A73099 (9803448)		2.74
A73100 (9803449)		2.42

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

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MISSISSAUGA, ONTARIO  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 23, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
A73079 (9803428)		<0.5	7.12	2	19	1.8	6	6.73	<0.5	9	36.5	106	91.3	9.51	41
A73080 (9803429)		<0.5	7.16	<1	72	1.4	<1	6.91	<0.5	11	36.3	155	96.5	7.29	38
A73081 (9803430)		<0.5	7.29	3	84	1.1	<1	7.14	<0.5	11	37.2	151	102	6.88	38
A73082 (9803431)		<0.5	6.91	<1	91	1.2	<1	6.85	<0.5	12	35.6	151	96.5	6.52	35
A73083 (9803432)		12.3	7.23	<1	99	1.3	1	7.23	<0.5	11	36.2	153	102	6.83	40
A73084 (9803433)		<0.5	7.39	<1	76	1.2	<1	7.11	<0.5	11	37.1	166	106	7.21	40
A73085 (9803434)		<0.5	6.92	<1	40	2.0	<1	5.94	<0.5	8	59.3	124	93.8	8.70	42
A73086 (9803435)		<0.5	6.90	<1	164	2.7	5	5.86	<0.5	18	34.2	194	101	7.20	40
A73087 (9803436)		<0.5	6.66	<1	39	4.8	2	6.45	<0.5	8	37.2	106	96.6	8.60	39
A73088 (9803437)		<0.5	6.96	<1	8	2.0	5	6.51	<0.5	9	35.6	108	86.9	9.44	40
A73089 (9803438)		<0.5	6.60	<1	13	3.7	6	6.27	<0.5	8	39.6	111	73.5	9.02	45
A73090 (9803439)		<0.5	6.66	<1	49	2.8	11	6.19	<0.5	10	32.2	77.6	97.8	10.0	38
A73091 (9803440)		<0.5	6.77	<1	116	2.0	3	5.53	<0.5	28	31.1	80.2	77.2	8.82	39
A73092 (9803441)		<0.5	0.18	5	22	<0.5	<1	29.0	<0.5	<1	1.3	10.1	<0.5	0.30	17
A73093 (9803442)		<0.5	6.56	<1	244	3.1	5	4.71	<0.5	15	34.8	71.1	122	9.55	44
A73094 (9803443)		<0.5	7.28	<1	88	1.6	<1	6.68	<0.5	11	37.1	142	100	7.75	41
A73095 (9803444)		<0.5	7.20	<1	109	1.2	<1	6.60	<0.5	12	49.4	155	98.7	6.88	39
A73096 (9803445)		<0.5	7.18	1	124	1.8	<1	6.73	<0.5	12	42.0	155	102	6.87	37
A73097 (9803446)		<0.5	7.03	2	119	2.2	<1	6.76	<0.5	12	36.9	172	97.2	6.70	40
A73098 (9803447)		<0.5	7.29	3	114	2.0	1	6.92	<0.5	12	35.0	139	98.5	6.99	36
A73099 (9803448)		<0.5	7.44	<1	233	3.3	<1	7.10	<0.5	11	34.8	149	103	7.10	34
A73100 (9803449)		<0.5	7.16	3	115	1.4	<1	6.90	<0.5	11	36.7	144	102	6.77	37

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 23, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A73079 (9803428)	<1	0.16	4	12	3.44	1600	2.2	1.74	66.9	349	<20	<50	0.12	1	
A73080 (9803429)	<1	0.31	5	13	3.95	1250	6.0	1.54	78.3	234	<20	<50	0.08	<1	
A73081 (9803430)	<1	0.34	6	20	4.10	1210	3.4	1.65	83.6	226	<20	<50	0.08	2	
A73082 (9803431)	<1	0.36	6	15	3.86	1150	4.3	1.60	82.5	229	<20	<50	0.08	2	
A73083 (9803432)	<1	0.34	6	14	4.09	1200	4.4	1.59	81.4	221	<20	<50	0.08	<1	
A73084 (9803433)	<1	0.33	6	9	4.17	1250	5.7	1.49	85.9	228	<20	<50	0.08	<1	
A73085 (9803434)	<1	0.22	3	9	3.71	1320	4.9	1.85	76.3	321	<20	<50	0.09	<1	
A73086 (9803435)	<1	0.40	9	9	4.10	1220	<0.5	2.21	100	792	<20	<50	0.08	1	
A73087 (9803436)	<1	0.30	4	19	2.97	1340	4.0	2.47	68.3	354	<20	<50	0.10	<1	
A73088 (9803437)	<1	0.17	4	12	3.24	1400	3.4	1.72	67.2	330	<20	<50	0.09	2	
A73089 (9803438)	<1	0.21	3	16	3.14	1440	3.8	1.66	71.6	359	<20	<50	0.07	1	
A73090 (9803439)	<1	0.18	4	13	2.94	1770	3.5	1.71	49.0	388	<20	<50	0.17	<1	
A73091 (9803440)	<1	0.43	12	11	2.94	1460	3.6	2.40	55.4	574	<20	<50	0.13	3	
A73092 (9803441)	<1	0.02	3	1	2.36	80	2.4	0.08	1.6	90	<20	<50	0.03	<1	
A73093 (9803442)	<1	0.70	6	13	2.95	1340	3.4	2.33	49.0	475	<20	<50	0.23	3	
A73094 (9803443)	<1	0.35	6	12	4.03	1320	5.9	1.64	78.0	267	<20	<50	0.09	<1	
A73095 (9803444)	<1	0.47	6	17	4.13	1230	3.6	1.43	85.4	217	<20	<50	0.07	<1	
A73096 (9803445)	<1	0.53	6	14	4.19	1220	4.4	1.50	83.6	222	<20	<50	0.07	4	
A73097 (9803446)	<1	0.48	6	12	4.00	1200	5.1	1.52	87.4	216	<20	<50	0.07	<1	
A73098 (9803447)	<1	0.50	6	13	4.19	1250	4.1	1.53	82.4	208	<20	<50	0.07	<1	
A73099 (9803448)	<1	0.52	5	20	4.25	1240	5.1	1.69	79.8	233	<20	<50	0.08	2	
A73100 (9803449)	<1	0.41	5	11	4.05	1220	4.6	1.41	81.1	220	<20	<50	0.08	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 23, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A73079 (9803428)	41	<10	<5	113	<10	<10	<5	0.69	<5	<50	308	6	26	110	
A73080 (9803429)	37	<10	<5	106	<10	<10	<5	0.41	<5	<50	236	6	16	94.8	
A73081 (9803430)	37	<10	<5	102	<10	<10	<5	0.36	<5	<50	229	2	15	67.9	
A73082 (9803431)	35	<10	<5	102	<10	<10	<5	0.34	<5	<50	218	3	14	63.6	
A73083 (9803432)	36	<10	<5	106	<10	<10	<5	0.36	<5	<50	223	4	15	72.1	
A73084 (9803433)	37	<10	<5	104	<10	<10	<5	0.39	<5	<50	234	4	16	77.2	
A73085 (9803434)	40	<10	<5	77	<10	<10	<5	0.61	<5	<50	290	313	25	90.9	
A73086 (9803435)	32	<10	<5	221	<10	<10	<5	0.78	<5	<50	232	3	20	81.8	
A73087 (9803436)	41	<10	<5	101	<10	<10	<5	0.56	<5	<50	297	11	24	91.3	
A73088 (9803437)	41	<10	<5	106	<10	<10	<5	0.68	<5	<50	301	4	26	95.9	
A73089 (9803438)	45	<10	<5	108	<10	<10	<5	0.65	<5	<50	320	6	28	95.9	
A73090 (9803439)	41	<10	<5	86	<10	<10	<5	0.79	<5	<50	313	5	29	114	
A73091 (9803440)	37	<10	<5	130	<10	<10	<5	0.73	<5	<50	286	4	27	105	
A73092 (9803441)	<1	<10	<5	62	<10	<10	<5	0.02	<5	<50	6.5	<1	2	2.4	
A73093 (9803442)	42	<10	<5	165	<10	<10	<5	0.77	<5	<50	323	5	31	98.9	
A73094 (9803443)	38	<10	<5	122	<10	<10	<5	0.47	<5	<50	248	5	18	84.9	
A73095 (9803444)	37	<10	<5	110	<10	<10	<5	0.36	<5	<50	229	202	15	74.0	
A73096 (9803445)	37	<10	<5	121	<10	<10	<5	0.36	<5	<50	225	81	15	78.4	
A73097 (9803446)	38	<10	<5	116	<10	<10	<5	0.35	<5	<50	239	6	17	76.1	
A73098 (9803447)	37	<10	<5	119	<10	<10	<5	0.37	<5	<50	228	7	16	77.5	
A73099 (9803448)	38	<10	<5	117	<10	<10	<5	0.37	<5	<50	226	6	15	75.0	
A73100 (9803449)	36	<10	<5	116	<10	<10	<5	0.36	<5	<50	223	4	14	70.6	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 23, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A73079 (9803428)				26
A73080 (9803429)				46
A73081 (9803430)				48
A73082 (9803431)				44
A73083 (9803432)				48
A73084 (9803433)				45
A73085 (9803434)				20
A73086 (9803435)				85
A73087 (9803436)				20
A73088 (9803437)				15
A73089 (9803438)				21
A73090 (9803439)				18
A73091 (9803440)				44
A73092 (9803441)				<5
A73093 (9803442)				35
A73094 (9803443)				48
A73095 (9803444)				49
A73096 (9803445)				50
A73097 (9803446)				53
A73098 (9803447)				50
A73099 (9803448)				56
A73100 (9803449)				47

Comments: RDL - Reported Detection Limit  
 9803428-9803449 As, Sb values may be low due to digestion losses.

Certified By:







## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 23, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A73079 (9803428)			0.019
A73080 (9803429)			0.184
A73081 (9803430)			0.024
A73082 (9803431)			0.028
A73083 (9803432)			0.009
A73084 (9803433)			0.011
A73085 (9803434)			0.002
A73086 (9803435)			0.350
A73087 (9803436)			0.045
A73088 (9803437)			0.044
A73089 (9803438)			0.011
A73090 (9803439)			0.021
A73091 (9803440)			0.021
A73092 (9803441)			0.012
A73093 (9803442)			0.003
A73094 (9803443)			0.020
A73095 (9803444)			0.009
A73096 (9803445)			0.259
A73097 (9803446)			0.008
A73098 (9803447)			0.011
A73099 (9803448)			0.005
A73100 (9803449)			0.005

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 23, 2019	SAMPLE TYPE: Drill Core
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Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A73079 (9803428)		90
A73088 (9803437)		90
A73089 (9803438)		87
A73095 (9803444)		84
A73098 (9803447)		86

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423051

PROJECT: AGAT00503

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 23, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A73079 (9803428)	93

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9803428	< 0.5	< 0.5	0.0%	9803442	< 0.5	< 0.5	0.0%								
Al	9803428	7.12	6.80	4.6%	9803442	6.56	6.81	3.7%								
As	9803428	2	< 1		9803442	< 1	< 1	0.0%								
Ba	9803428	19	16	17.1%	9803442	244	257	5.2%								
Be	9803428	1.84	1.92	4.3%	9803442	3.1	3.2	3.2%								
Bi	9803428	6	4		9803442	5	7									
Ca	9803428	6.73	6.66	1.0%	9803442	4.71	4.89	3.8%								
Cd	9803428	< 0.5	< 0.5	0.0%	9803442	< 0.5	< 0.5	0.0%								
Ce	9803428	9	9	0.0%	9803442	15	15	0.0%								
Co	9803428	36.5	37.9	3.8%	9803442	34.8	33.3	4.4%								
Cr	9803428	106	110	3.7%	9803442	71.1	69.0	3.0%								
Cu	9803428	91.3	84.3	8.0%	9803442	122	128	4.8%								
Fe	9803428	9.51	9.37	1.5%	9803442	9.55	9.91	3.7%								
Ga	9803428	41	39	5.0%	9803442	44	39	12.0%								
In	9803428	< 1	< 1	0.0%	9803442	< 1	< 1	0.0%								
K	9803428	0.163	0.145	11.7%	9803442	0.70	0.73	4.2%								
La	9803428	4	4	0.0%	9803442	6	6	0.0%								
Li	9803428	12	11	8.7%	9803442	13	14	7.4%								
Mg	9803428	3.44	3.27	5.1%	9803442	2.95	3.04	3.0%								
Mn	9803428	1600	1540	3.8%	9803442	1340	1380	2.9%								
Mo	9803428	2.2	2.9	27.5%	9803442	3.4	3.1	9.2%								
Na	9803428	1.74	1.69	2.9%	9803442	2.33	2.46	5.4%								
Ni	9803428	66.9	67.7	1.2%	9803442	49.0	49.3	0.6%								
P	9803428	349	362	3.7%	9803442	475	462	2.8%								
Pb	9803428	< 20	< 20	0.0%	9803442	< 20	< 20	0.0%								
Rb	9803428	< 50	< 50	0.0%	9803442	< 50	< 50	0.0%								
S	9803428	0.118	0.101	15.5%	9803442	0.232	0.238	2.6%								
Sb	9803428	1	< 1		9803442	3	2									
Sc	9803428	41	42	2.4%	9803442	42	41	2.4%								
Se	9803428	< 10	< 10	0.0%	9803442	< 10	< 10	0.0%								
Sn	9803428	< 5	< 5	0.0%	9803442	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803428	113	110	2.7%	9803442	165	175	5.9%								
Ta	9803428	< 10	< 10	0.0%	9803442	< 10	< 10	0.0%								
Te	9803428	< 10	< 10	0.0%	9803442	< 10	< 10	0.0%								
Th	9803428	< 5	< 5	0.0%	9803442	< 5	< 5	0.0%								
Ti	9803428	0.686	0.672	2.1%	9803442	0.77	0.81	5.1%								
Tl	9803428	< 5	< 5	0.0%	9803442	< 5	< 5	0.0%								
U	9803428	< 50	< 50	0.0%	9803442	< 50	< 50	0.0%								
V	9803428	308	309	0.3%	9803442	323	313	3.1%								
W	9803428	6	6	0.0%	9803442	5	4	22.2%								
Y	9803428	26	26	0.0%	9803442	31	30	3.3%								
Zn	9803428	110	101	8.5%	9803442	98.9	102	3.1%								
Zr	9803428	26	28	7.4%	9803442	35	38	8.2%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	9803428	0.019	0.036		9803442	0.003	0.097									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WW03)				CRM #3 (ref.GSP4G)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.41	95%	90% - 110%												
Ba	340	321	94%	90% - 110%												
Be	2.6	3	114%	90% - 110%												
Ca	5.72	5.33	93%	90% - 110%												
Ce	122	115	94%	90% - 110%												
Cu	7	5	76%	90% - 110%												
Fe	4.34	3.98	92%	90% - 110%												
Ga	35	38	109%	90% - 110%												
K	1.37	1.35	98%	90% - 110%												
La	58	51	88%	90% - 110%												
Li	37	37	99%	90% - 110%												
Mg	0.325	0.298	92%	90% - 110%												
Na	5.267	5.367	102%	90% - 110%												
Sr	1191	1106	93%	90% - 110%												
Ti	0.172	0.157	91%	90% - 110%												
V	8	6	78%	90% - 110%												
Y	119	115	97%	90% - 110%												
Zn	93	88	94%	90% - 110%												

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.WW03)				CRM #3 (ref.GSP4G)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	2.01	1.96	98%	90% - 110%	2.01	2.19	108%	90% - 110%	0.468	0.424	91%	90% - 110%				



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00503  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423051  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00504

AGAT WORK ORDER: 18B423052

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 22, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A73101 (9803450)		1.12
A73102 (9803451)		1.59
A73103 (9803452)		2.58
A73104 (9803453)		2.62
A73105 (9803454)		2.38
A73106 (9803455)		0.06
A73107 (9803456)		2.49
A73108 (9803457)		2.71
A73109 (9803458)		3.02
A73110 (9803459)		2.62
A73111 (9803460)		2.70
A73112 (9803461)		1.51
A73113 (9803462)		3.30
A73114 (9803463)		2.38
A73115 (9803464)		3.22
A73116 (9803465)		2.46
A73117 (9803466)		2.56
A73118 (9803467)		2.52

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 22, 2019					SAMPLE TYPE: Drill Core				
Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
A73101 (9803450)		<0.5	6.84	1	112	1.9	<1	6.85	<0.5	16	36.4	92.7	93.9	8.58	37
A73102 (9803451)		<0.5	7.08	<1	45	1.8	<1	6.95	<0.5	11	37.9	89.1	68.3	9.08	38
A73103 (9803452)		<0.5	6.67	<1	125	1.8	1	8.13	<0.5	11	38.1	86.2	117	9.35	35
A73104 (9803453)		<0.5	6.66	<1	38	2.6	<1	7.63	<0.5	8	40.4	83.5	82.7	9.77	38
A73105 (9803454)		<0.5	6.97	<1	71	1.6	3	6.96	<0.5	8	36.9	79.5	94.4	9.88	36
A73106 (9803455)		<0.5	6.63	10	121	1.5	<1	6.71	<0.5	7	42.1	147	147	7.97	38
A73107 (9803456)		<0.5	6.94	<1	48	1.9	<1	7.29	<0.5	8	41.5	83.7	75.7	9.43	45
A73108 (9803457)		<0.5	6.91	<1	35	1.8	2	6.81	<0.5	8	42.3	85.4	67.0	9.50	40
A73109 (9803458)		<0.5	6.77	<1	59	2.2	3	6.61	<0.5	10	39.2	58.2	117	10.2	41
A73110 (9803459)		<0.5	6.49	<1	32	2.0	3	5.41	<0.5	10	39.7	54.6	77.1	9.42	42
A73111 (9803460)		<0.5	6.54	<1	21	2.2	<1	5.54	<0.5	10	40.0	57.6	86.5	10.1	42
A73112 (9803461)		<0.5	0.13	<1	15	<0.5	<1	32.6	<0.5	<1	1.3	4.1	0.9	0.26	15
A73113 (9803462)		1.3	6.75	<1	26	2.1	2	6.16	<0.5	10	41.6	67.5	96.7	10.4	40
A73114 (9803463)		<0.5	6.98	<1	87	1.7	7	6.87	<0.5	10	36.4	66.4	122	10.6	38
A73115 (9803464)		<0.5	6.87	<1	68	2.7	<1	5.30	<0.5	11	41.1	65.9	84.4	10.6	41
A73116 (9803465)		<0.5	6.59	<1	70	2.0	<1	5.90	<0.5	52	40.0	150	62.4	8.66	40
A73117 (9803466)		<0.5	6.80	<1	94	4.2	2	6.58	<0.5	10	38.1	64.7	97.9	10.4	38
A73118 (9803467)		<0.5	6.53	<1	81	5.9	1	6.53	<0.5	10	39.3	63.8	96.7	10.2	36

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 22, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A73101 (9803450)	<1	0.45	7	10	2.61	1430	4.7	2.00	73.9	467	<20	<50	0.13	1	
A73102 (9803451)	<1	0.27	5	8	2.69	1440	4.3	2.00	73.5	420	<20	<50	0.08	2	
A73103 (9803452)	<1	0.39	5	14	2.49	1480	5.0	1.51	73.9	445	<20	<50	0.14	1	
A73104 (9803453)	<1	0.33	4	11	2.83	1520	3.5	1.53	72.7	396	<20	<50	0.11	3	
A73105 (9803454)	<1	0.30	4	10	3.02	1570	3.7	1.92	71.8	361	<20	<50	0.10	2	
A73106 (9803455)	<1	0.19	4	11	3.90	1300	<0.5	2.11	90.5	427	<20	<50	0.15	<1	
A73107 (9803456)	<1	0.25	4	12	3.10	1710	2.8	1.66	74.9	409	<20	<50	0.08	<1	
A73108 (9803457)	<1	0.19	4	11	2.93	1670	2.7	1.65	77.3	397	<20	<50	0.09	<1	
A73109 (9803458)	<1	0.24	4	11	2.79	1660	2.5	1.70	55.4	465	<20	<50	0.16	1	
A73110 (9803459)	<1	0.20	4	11	2.86	1460	1.7	1.89	52.2	483	<20	<50	0.08	<1	
A73111 (9803460)	<1	0.17	4	12	2.92	1610	2.1	1.81	54.5	457	<20	<50	0.11	2	
A73112 (9803461)	<1	0.01	3	1	1.74	84	2.0	0.05	1.9	73	<20	<50	0.04	1	
A73113 (9803462)	<1	0.18	4	12	2.99	1620	2.9	1.85	59.9	489	<20	<50	0.12	2	
A73114 (9803463)	<1	0.29	4	14	2.69	1450	3.9	1.48	54.6	475	<20	<50	0.20	2	
A73115 (9803464)	<1	0.39	5	15	3.05	1480	3.7	2.17	55.9	482	<20	<50	0.15	4	
A73116 (9803465)	<1	0.37	24	12	3.96	1260	4.9	2.22	157	856	<20	<50	0.11	<1	
A73117 (9803466)	<1	0.40	4	16	2.82	1420	3.4	1.69	56.7	468	<20	<50	0.17	2	
A73118 (9803467)	<1	0.32	4	15	2.68	1380	3.7	1.57	56.8	464	<20	<50	0.16	3	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 22, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
A73101 (9803450)	39	<10	<5	155	<10	<10	<5	0.63	<5	<50	274	9	26	99.8	
A73102 (9803451)	43	<10	<5	125	<10	<10	<5	0.67	<5	<50	299	4	27	117	
A73103 (9803452)	41	<10	<5	100	<10	<10	<5	0.69	<5	<50	288	6	26	90.6	
A73104 (9803453)	44	<10	<5	78	<10	<10	<5	0.67	<5	<50	300	6	29	96.2	
A73105 (9803454)	42	<10	<5	104	<10	<10	<5	0.71	<5	<50	296	5	27	96.0	
A73106 (9803455)	46	<10	<5	106	<10	<10	<5	0.64	<5	<50	312	4	22	75.5	
A73107 (9803456)	47	<10	<5	111	<10	<10	<5	0.69	<5	<50	324	3	30	101	
A73108 (9803457)	45	<10	<5	112	<10	<10	<5	0.69	<5	<50	315	6	29	100	
A73109 (9803458)	45	<10	<5	105	<10	<10	<5	0.81	<5	<50	328	5	34	110	
A73110 (9803459)	46	<10	<5	102	<10	<10	<5	0.74	<5	<50	331	3	33	105	
A73111 (9803460)	46	<10	<5	107	<10	<10	<5	0.78	<5	<50	329	3	33	108	
A73112 (9803461)	<1	<10	<5	65	<10	<10	<5	0.01	<5	<50	5.2	<1	3	4.2	
A73113 (9803462)	45	<10	<5	99	<10	<10	<5	0.82	<5	<50	331	5	32	125	
A73114 (9803463)	44	<10	<5	110	<10	<10	<5	0.84	<5	<50	323	6	32	148	
A73115 (9803464)	47	<10	<5	101	<10	<10	<5	0.82	<5	<50	343	6	34	107	
A73116 (9803465)	35	<10	<5	205	<10	<10	<5	0.64	<5	<50	262	6	27	103	
A73117 (9803466)	45	<10	<5	134	<10	<10	<5	0.81	<5	<50	322	6	31	113	
A73118 (9803467)	45	<10	<5	126	<10	<10	<5	0.81	<5	<50	330	6	32	110	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A73101 (9803450)				33
A73102 (9803451)				17
A73103 (9803452)				18
A73104 (9803453)				21
A73105 (9803454)				16
A73106 (9803455)				52
A73107 (9803456)				15
A73108 (9803457)				16
A73109 (9803458)				23
A73110 (9803459)				20
A73111 (9803460)				21
A73112 (9803461)				<5
A73113 (9803462)				22
A73114 (9803463)				17
A73115 (9803464)				24
A73116 (9803465)				50
A73117 (9803466)				22
A73118 (9803467)				23

Comments: RDL - Reported Detection Limit  
 9803450-9803467 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 22, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
A73101 (9803450)				0.050
A73102 (9803451)				0.003
A73103 (9803452)				0.005
A73104 (9803453)				0.724
A73105 (9803454)				0.345
A73106 (9803455)				3.64
A73107 (9803456)				0.002
A73108 (9803457)				0.004
A73109 (9803458)				0.002
A73110 (9803459)				0.002
A73111 (9803460)				0.001
A73112 (9803461)				0.003
A73113 (9803462)				0.002
A73114 (9803463)				0.002
A73115 (9803464)				0.004
A73116 (9803465)				0.002
A73117 (9803466)				0.010
A73118 (9803467)				0.148

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 22, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
A73101 (9803450)		91
A73102 (9803451)		83

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18B423052

PROJECT: AGAT00504

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 22, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A73101 (9803450)	96

Comments: RDL - Reported Detection Limit

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	9803450	< 0.5	< 0.5	0.0%	9803464	< 0.5	< 0.5	0.0%				
Al	9803450	6.84	6.46	5.7%	9803464	6.87	6.88	0.1%				
As	9803450	1	< 1		9803464	< 1	< 1	0.0%				
Ba	9803450	112	108	3.6%	9803464	68	65	4.5%				
Be	9803450	1.9	1.9	0.0%	9803464	2.7	2.7	0.0%				
Bi	9803450	< 1	< 1	0.0%	9803464	< 1	< 1	0.0%				
Ca	9803450	6.85	6.67	2.7%	9803464	5.30	5.29	0.2%				
Cd	9803450	< 0.5	< 0.5	0.0%	9803464	< 0.5	< 0.5	0.0%				
Ce	9803450	16	16	0.0%	9803464	11	10	9.5%				
Co	9803450	36.4	34.9	4.2%	9803464	41.1	39.4	4.2%				
Cr	9803450	92.7	84.2	9.6%	9803464	65.9	58.4	12.1%				
Cu	9803450	93.9	89.9	4.4%	9803464	84.4	84.8	0.5%				
Fe	9803450	8.58	8.40	2.1%	9803464	10.6	10.5	0.9%				
Ga	9803450	37	36	2.7%	9803464	41	37	10.3%				
In	9803450	< 1	< 1	0.0%	9803464	< 1	< 1	0.0%				
K	9803450	0.45	0.42	6.9%	9803464	0.385	0.380	1.3%				
La	9803450	7	7	0.0%	9803464	5	4	22.2%				
Li	9803450	10	9	10.5%	9803464	15	15	0.0%				
Mg	9803450	2.61	2.44	6.7%	9803464	3.05	3.07	0.7%				
Mn	9803450	1430	1330	7.2%	9803464	1480	1480	0.0%				
Mo	9803450	4.72	4.25	10.5%	9803464	3.71	4.31	15.0%				
Na	9803450	2.00	1.96	2.0%	9803464	2.17	2.17	0.0%				
Ni	9803450	73.9	69.9	5.6%	9803464	55.9	53.6	4.2%				
P	9803450	467	456	2.4%	9803464	482	477	1.0%				
Pb	9803450	< 20	< 20	0.0%	9803464	< 20	< 20	0.0%				
Rb	9803450	< 50	< 50	0.0%	9803464	< 50	< 50	0.0%				
S	9803450	0.13	0.12	8.0%	9803464	0.15	0.15	0.0%				
Sb	9803450	1	2		9803464	4	1					
Sc	9803450	39	38	2.6%	9803464	47	45	4.3%				
Se	9803450	< 10	< 10	0.0%	9803464	< 10	< 10	0.0%				
Sn	9803450	< 5	< 5	0.0%	9803464	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803450	155	150	3.3%	9803464	101	101	0.0%										
Ta	9803450	< 10	< 10	0.0%	9803464	< 10	< 10	0.0%										
Te	9803450	< 10	< 10	0.0%	9803464	< 10	< 10	0.0%										
Th	9803450	< 5	< 5	0.0%	9803464	< 5	< 5	0.0%										
Ti	9803450	0.63	0.62	1.6%	9803464	0.82	0.83	1.2%										
Tl	9803450	< 5	< 5	0.0%	9803464	< 5	< 5	0.0%										
U	9803450	< 50	< 50	0.0%	9803464	< 50	< 50	0.0%										
V	9803450	274	271	1.1%	9803464	343	331	3.6%										
W	9803450	9	5		9803464	6	6	0.0%										
Y	9803450	26	25	3.9%	9803464	34	33	3.0%										
Zn	9803450	99.8	96.8	3.1%	9803464	107	108	0.9%										
Zr	9803450	33	32	3.1%	9803464	24	23	4.3%										
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																		
	REPLICATE #1				REPLICATE #2													
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Au	9803450	0.050	0.006		9803464	0.004	0.002											



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.36	95%	90% - 110%												
Ba	340	314	92%	90% - 110%												
Be	2.6	2.6	99%	90% - 110%												
Ca	5.72	5.5	96%	90% - 110%												
Ce	122	114	94%	90% - 110%												
Cu	7	6	84%	90% - 110%												
Fe	4.34	4.07	94%	90% - 110%												
Ga	35	36	102%	90% - 110%												
K	1.37	1.37	100%	90% - 110%												
La	58	50	86%	90% - 110%												
Li	37	37	99%	90% - 110%												
Mg	0.325	0.284	88%	90% - 110%												
Na	5.267	5.174	98%	90% - 110%												
Pb	10	11	108%	90% - 110%												
Sr	1191	1148	96%	90% - 110%												
Ti	0.172	0.159	92%	90% - 110%												
Y	119	117	98%	90% - 110%												
Zn	93	93	100%	90% - 110%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)				CRM #2 (ref.GSP4G)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	2.01	2.13	105%	90% - 110%	0.468	0.471	101%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00504  
 SAMPLING SITE:

AGAT WORK ORDER: 18B423052  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00494

AGAT WORK ORDER: 18T423040

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Jan 15, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (200-) Sample Login Weight

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A72904 (9803248)		1.50
A72905 (9803249)		1.66
A72906 (9803250)		0.07
A72907 (9803251)		1.90
A72908 (9803252)		1.87
A72909 (9803253)		2.48
A72910 (9803254)		2.57
A72911 (9803255)		2.59
A72912 (9803256)		1.49
A72913 (9803257)		2.15
A72914 (9803258)		2.46
A72915 (9803259)		2.38
A72916 (9803260)		2.10
A72917 (9803261)		2.85
A72918 (9803262)		2.85
A72919 (9803263)		2.97
A72920 (9803264)		1.10

Comments: RDL - Reported Detection Limit

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018			DATE REPORTED: Jan 15, 2019			SAMPLE TYPE: Drill Core							
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
A72904 (9803248)	<0.5	7.07	4	554	3.3	2	2.69	<0.5	45	14.8	80.0	55.5	3.70	26
A72905 (9803249)	<0.5	7.12	2	648	2.0	1	2.55	<0.5	46	17.0	92.9	34.8	3.94	29
A72906 (9803250)	<0.5	7.29	<1	168	2.7	5	6.04	<0.5	19	34.5	184	103	7.51	38
A72907 (9803251)	<0.5	7.29	<1	633	2.0	2	2.68	<0.5	43	17.0	107	25.8	4.03	29
A72908 (9803252)	2.8	7.08	<1	480	2.1	<1	2.54	<0.5	40	18.8	110	37.3	4.01	27
A72909 (9803253)	<0.5	5.56	<1	576	4.5	7	4.28	<0.5	65	30.3	289	51.3	5.02	34
A72910 (9803254)	<0.5	6.11	<1	1310	3.8	4	4.17	<0.5	81	23.0	261	36.2	4.34	34
A72911 (9803255)	<0.5	7.14	6	1440	2.7	<1	3.08	<0.5	71	16.8	144	44.9	3.59	31
A72912 (9803256)	<0.5	0.22	5	28	<0.5	<1	31.3	<0.5	<1	0.5	7.1	<0.5	0.14	15
A72913 (9803257)	<0.5	6.75	1	595	2.3	<1	2.56	<0.5	51	16.5	120	31.6	3.63	30
A72914 (9803258)	<0.5	6.91	<1	540	1.9	1	2.47	<0.5	40	16.0	108	36.6	3.94	26
A72915 (9803259)	<0.5	7.10	<1	457	1.9	<1	2.33	<0.5	39	17.2	85.1	40.9	4.15	23
A72916 (9803260)	<0.5	6.99	2	552	2.3	<1	2.52	<0.5	45	17.3	115	42.0	3.91	29
A72917 (9803261)	<0.5	6.30	<1	558	3.2	3	3.49	<0.5	64	25.9	159	46.5	5.16	33
A72918 (9803262)	<0.5	6.13	<1	579	3.2	4	3.60	<0.5	64	25.4	160	45.8	4.96	33
A72919 (9803263)	<0.5	4.36	<1	668	5.7	9	5.94	<0.5	71	44.7	397	91.5	7.74	38
A72920 (9803264)	<0.5	3.56	<1	670	5.8	15	6.67	<0.5	72	48.6	474	101	8.20	39

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## Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018					DATE REPORTED: Jan 15, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
A72904 (9803248)	<1	1.71	20	43	1.58	560	5.2	3.02	48.6	637	<20	<50	0.10	1	
A72905 (9803249)	<1	1.51	21	29	1.70	579	4.0	2.86	51.9	571	<20	<50	0.14	2	
A72906 (9803250)	<1	0.42	9	10	4.21	1290	0.6	2.33	102	793	<20	<50	0.09	2	
A72907 (9803251)	<1	1.45	19	27	1.73	610	4.5	2.81	53.9	567	<20	<50	0.12	2	
A72908 (9803252)	<1	1.56	18	27	1.60	581	5.4	2.92	55.6	511	<20	<50	0.17	2	
A72909 (9803253)	<1	1.67	30	35	3.65	918	4.1	2.25	199	1060	<20	<50	0.20	<1	
A72910 (9803254)	<1	1.59	36	35	3.44	809	3.8	2.59	150	1230	27	<50	0.19	<1	
A72911 (9803255)	<1	1.54	31	26	2.28	606	6.5	3.18	66.7	899	21	<50	0.27	<1	
A72912 (9803256)	<1	0.06	3	1	2.06	52	1.9	0.12	0.7	92	<20	<50	0.03	<1	
A72913 (9803257)	<1	1.51	23	30	1.63	535	3.2	2.87	52.5	574	<20	<50	0.13	1	
A72914 (9803258)	<1	1.17	18	21	1.56	576	4.3	2.94	48.0	485	<20	<50	0.16	1	
A72915 (9803259)	<1	1.11	17	19	1.52	563	4.3	3.03	48.2	527	<20	<50	0.17	<1	
A72916 (9803260)	<1	1.19	20	22	1.55	547	5.2	2.89	50.9	554	<20	<50	0.15	3	
A72917 (9803261)	<1	1.26	29	29	2.80	796	5.1	2.56	113	982	<20	<50	0.14	<1	
A72918 (9803262)	<1	1.23	29	29	2.70	767	4.0	2.62	116	990	<20	<50	0.14	2	
A72919 (9803263)	<1	1.63	36	37	6.40	1290	2.9	1.56	319	1210	<20	<50	0.18	<1	
A72920 (9803264)	<1	1.59	35	29	7.19	1390	2.7	1.26	383	1260	<20	<50	0.17	<1	

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## Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 15, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sc ppm 1	Se ppm 10	Sn ppm 5	Sr ppm 1	Ta ppm 10	Te ppm 10	Th ppm 5	Ti % 0.01	Tl ppm 5	U ppm 50	V ppm 0.5	W ppm 1	Y ppm 1	Zn ppm 0.5
A72904 (9803248)		15	<10	<5	390	<10	<10	<5	0.29	<5	<50	110	3	11	82.6
A72905 (9803249)		14	<10	<5	458	<10	<10	<5	0.34	<5	<50	113	5	11	84.0
A72906 (9803250)		32	<10	<5	230	<10	<10	<5	0.81	<5	<50	236	2	20	83.2
A72907 (9803251)		15	<10	<5	499	<10	<10	<5	0.35	<5	<50	121	4	12	84.1
A72908 (9803252)		16	<10	<5	394	<10	<10	<5	0.35	<5	<50	122	3	11	83.0
A72909 (9803253)		17	<10	<5	506	<10	<10	<5	0.76	<5	<50	156	5	16	113
A72910 (9803254)		13	<10	<5	916	<10	<10	<5	0.54	<5	<50	119	3	20	123
A72911 (9803255)		12	<10	<5	1170	<10	<10	<5	0.30	<5	<50	94.6	5	17	134
A72912 (9803256)		<1	<10	<5	71	<10	<10	<5	<0.01	<5	<50	1.9	1	1	1.1
A72913 (9803257)		14	<10	<5	454	<10	<10	<5	0.31	<5	<50	110	3	10	73.5
A72914 (9803258)		14	<10	<5	437	<10	<10	<5	0.34	<5	<50	111	6	10	79.7
A72915 (9803259)		15	<10	<5	410	<10	<10	<5	0.37	<5	<50	122	5	9	74.7
A72916 (9803260)		15	<10	<5	417	<10	<10	<5	0.33	<5	<50	122	5	11	70.7
A72917 (9803261)		17	<10	<5	499	<10	<10	<5	0.59	<5	<50	142	4	15	88.4
A72918 (9803262)		17	<10	<5	504	<10	<10	<5	0.57	<5	<50	146	5	15	88.5
A72919 (9803263)		17	<10	<5	482	<10	<10	<5	1.50	<5	<50	222	2	15	84.3
A72920 (9803264)		17	<10	<5	512	<10	<10	<5	1.74	<5	<50	237	3	15	90.1

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
A72904 (9803248)				102
A72905 (9803249)				95
A72906 (9803250)				86
A72907 (9803251)				96
A72908 (9803252)				95
A72909 (9803253)				133
A72910 (9803254)				146
A72911 (9803255)				133
A72912 (9803256)				<5
A72913 (9803257)				100
A72914 (9803258)				93
A72915 (9803259)				94
A72916 (9803260)				101
A72917 (9803261)				120
A72918 (9803262)				131
A72919 (9803263)				164
A72920 (9803264)				171

Comments: RDL - Reported Detection Limit  
 9803248-9803264 As, Sb values may be low due to digestion losses.

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Dec 19, 2018      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Jan 15, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A72904 (9803248)			0.004
A72905 (9803249)			0.005
A72906 (9803250)			0.321
A72907 (9803251)			0.008
A72908 (9803252)			0.006
A72909 (9803253)			0.005
A72910 (9803254)			0.004
A72911 (9803255)			0.006
A72912 (9803256)			<0.001
A72913 (9803257)			0.005
A72914 (9803258)			0.004
A72915 (9803259)			0.038
A72916 (9803260)			0.005
A72917 (9803261)			0.002
A72918 (9803262)			0.002
A72919 (9803263)			0.002
A72920 (9803264)			0.002

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Crushing)

DATE SAMPLED: Dec 19, 2018

DATE RECEIVED: Dec 20, 2018

DATE REPORTED: Jan 15, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
A72904 (9803248)	99

Comments: RDL - Reported Detection Limit

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 18T423040

PROJECT: AGAT00494

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TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Dec 19, 2018	DATE RECEIVED: Dec 20, 2018	DATE REPORTED: Jan 15, 2019	SAMPLE TYPE: Drill Core
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Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A72904 (9803248)	93

Comments: RDL - Reported Detection Limit

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	9803248	< 0.5	< 0.5	0.0%	9803262	< 0.5	< 0.5	0.0%								
Al	9803248	7.07	6.94	1.9%	9803262	6.13	6.33	3.2%								
As	9803248	4	< 1		9803262	< 1	1									
Ba	9803248	554	563	1.6%	9803262	579	582	0.5%								
Be	9803248	3.26	3.19	2.2%	9803262	3.24	3.14	3.1%								
Bi	9803248	2	< 1		9803262	4	5	22.2%								
Ca	9803248	2.69	2.63	2.3%	9803262	3.60	3.60	0.0%								
Cd	9803248	< 0.5	< 0.5	0.0%	9803262	< 0.5	< 0.5	0.0%								
Ce	9803248	45	45	0.0%	9803262	64	62	3.2%								
Co	9803248	14.8	16.3	9.6%	9803262	25.4	24.6	3.2%								
Cr	9803248	80.0	79.8	0.3%	9803262	160	158	1.3%								
Cu	9803248	55.5	55.9	0.7%	9803262	45.8	45.9	0.2%								
Fe	9803248	3.70	3.72	0.5%	9803262	4.96	5.14	3.6%								
Ga	9803248	26	28	7.4%	9803262	33	33	0.0%								
In	9803248	< 1	< 1	0.0%	9803262	< 1	< 1	0.0%								
K	9803248	1.71	1.69	1.2%	9803262	1.23	1.27	3.2%								
La	9803248	20	20	0.0%	9803262	29	30	3.4%								
Li	9803248	43	42	2.4%	9803262	29	30	3.4%								
Mg	9803248	1.58	1.59	0.6%	9803262	2.70	2.80	3.6%								
Mn	9803248	560	550	1.8%	9803262	767	797	3.8%								
Mo	9803248	5.2	5.2	0.0%	9803262	4.01	4.56	12.8%								
Na	9803248	3.02	3.00	0.7%	9803262	2.62	2.63	0.4%								
Ni	9803248	48.6	47.9	1.5%	9803262	116	117	0.9%								
P	9803248	637	632	0.8%	9803262	990	987	0.3%								
Pb	9803248	< 20	< 20	0.0%	9803262	< 20	< 20	0.0%								
Rb	9803248	< 50	< 50	0.0%	9803262	< 50	< 50	0.0%								
S	9803248	0.10	0.10	0.0%	9803262	0.14	0.14	0.0%								
Sb	9803248	1	< 1		9803262	2	< 1									
Sc	9803248	15	15	0.0%	9803262	17	16	6.1%								
Se	9803248	< 10	< 10	0.0%	9803262	< 10	< 10	0.0%								
Sn	9803248	< 5	< 5	0.0%	9803262	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

Sr	9803248	390	388	0.5%	9803262	504	514	2.0%										
Ta	9803248	< 10	< 10	0.0%	9803262	< 10	< 10	0.0%										
Te	9803248	< 10	< 10	0.0%	9803262	< 10	< 10	0.0%										
Th	9803248	< 5	< 5	0.0%	9803262	< 5	< 5	0.0%										
Ti	9803248	0.29	0.29	0.0%	9803262	0.575	0.602	4.6%										
Tl	9803248	< 5	< 5	0.0%	9803262	< 5	< 5	0.0%										
U	9803248	< 50	< 50	0.0%	9803262	< 50	< 50	0.0%										
V	9803248	110	109	0.9%	9803262	146	142	2.8%										
W	9803248	3	4	28.6%	9803262	5	5	0.0%										
Y	9803248	11	11	0.0%	9803262	15	15	0.0%										
Zn	9803248	82.6	82.3	0.4%	9803262	88.5	91.7	3.6%										
Zr	9803248	102	102	0.0%	9803262	131	119	9.6%										

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2													
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD										
Au	9803248	0.004	0.005	22.2%	9803262	0.002	0.003											



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)														
	Expect	Actual	Recovery	Limits											
Al	10.95	10.83	99%	90% - 110%											
Ba	340	330	97%	90% - 110%											
Be	2.6	3	115%	90% - 110%											
Ca	5.72	5.54	97%	90% - 110%											
Ce	122	118	97%	90% - 110%											
Cu	7	5	78%	90% - 110%											
Fe	4.34	4.05	93%	90% - 110%											
Ga	35	38	109%	90% - 110%											
K	1.37	1.39	101%	90% - 110%											
La	58	53	91%	90% - 110%											
Li	37	38	104%	90% - 110%											
Mg	0.325	0.309	95%	90% - 110%											
Na	5.267	5.648	107%	90% - 110%											
Sr	1191	1141	96%	90% - 110%											
Ti	0.172	0.161	93%	90% - 110%											
V	8	6	79%	90% - 110%											
Y	119	118	100%	90% - 110%											
Zn	93	91	98%	90% - 110%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.WW03)														
	Expect	Actual	Recovery	Limits											
Au	2.01	1.9	94%	80% - 120%											





## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00494  
 SAMPLING SITE:

AGAT WORK ORDER: 18T423040  
 ATTENTION TO: Stephen Brooking  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12002/12020		ICP/OES
Al	MIN-200-12002/12020		ICP/OES
As	MIN-200-12002/12020		ICP/OES
Ba	MIN-200-12002/12020		ICP/OES
Be	MIN-200-12002/12020		ICP/OES
Bi	MIN-200-12002/12020		ICP/OES
Ca	MIN-200-12002/12020		ICP/OES
Cd	MIN-200-12002/12020		ICP/OES
Ce	MIN-200-12002/12020		ICP/OES
Co	MIN-200-12002/12020		ICP/OES
Cr	MIN-200-12002/12020		ICP/OES
Cu	MIN-200-12002/12020		ICP/OES
Fe	MIN-200-12002/12020		ICP/OES
Ga	MIN-200-12002/12020		ICP/OES
In	MIN-200-12002/12020		ICP/OES
K	MIN-200-12002/12020		ICP/OES
La	MIN-200-12002/12020		ICP/OES
Li	MIN-200-12002/12020		ICP/OES
Mg	MIN-200-12002/12020		ICP/OES
Mn	MIN-200-12002/12020		ICP/OES
Mo	MIN-200-12002/12020		ICP/OES
Na	MIN-200-12002/12020		ICP/OES
Ni	MIN-200-12002/12020		ICP/OES
P	MIN-200-12002/12020		ICP/OES
Pb	MIN-200-12002/12020		ICP/OES
Rb	MIN-200-12002/12020		ICP/OES
S	MIN-200-12002/12020		ICP/OES
Sb	MIN-200-12002/12020		ICP/OES
Sc	MIN-200-12002/12020		ICP/OES
Se	MIN-200-12002/12020		ICP/OES
Sn	MIN-200-12002/12020		ICP/OES
Sr	MIN-200-12002/12020		ICP/OES
Ta	MIN-200-12002/12020		ICP/OES
Te	MIN-200-12002/12020		ICP/OES
Th	MIN-200-12002/12020		ICP/OES
Ti	MIN-200-12002/12020		ICP/OES
Tl	MIN-200-12002/12020		ICP/OES
U	MIN-200-12002/12020		ICP/OES
V	MIN-200-12002/12020		ICP/OES
W	MIN-200-12002/12020		ICP/OES
Y	MIN-200-12002/12020		ICP/OES
Zn	MIN-200-12002/12020		ICP/OES
Zr	MIN-200-12002/12020		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Stephen Brooking

PROJECT: AGAT00503R

AGAT WORK ORDER: 19B437298

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Mar 13, 2019

PAGES (INCLUDING COVER): 5

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B437298

PROJECT: AGAT00503R

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Feb 14, 2019      DATE RECEIVED: Dec 20, 2018      DATE REPORTED: Mar 13, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
A73079 (9905727)		NSS	
A73080 (9905728)		0.005	
A73081 (9905729)		0.004	
A73082 (9905730)		0.004	
A73083 (9905731)		0.004	
A73084 (9905732)		0.004	
A73085 (9905733)		0.002	
A73086 (9905734)		2.45	
A73087 (9905735)		0.003	
A73088 (9905736)		0.004	
A73089 (9905737)		0.002	
A73090 (9905738)		0.002	
A73091 (9905739)		0.003	
A73092 (9905740)		0.003	
A73093 (9905741)		0.004	
A73094 (9905742)		0.009	
A73095 (9905743)		0.008	
A73096 (9905744)		0.006	
A73097 (9905745)		0.006	
A73098 (9905746)		0.005	
A73099 (9905747)		0.006	
A73100 (9905748)		0.006	

Comments: RDL - Reported Detection Limit

Certified By:



**AGAT** Laboratories

Quality Assurance - Replicate  
 AGAT WORK ORDER: 19B437298  
 PROJECT: AGAT00503R

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	Sample ID	REPLICATE #1		RPD									
		Original	Replicate										
Au	9905741	0.004	0.007										



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Stephen Brooking

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GS6E)				CRM #2 (ref.GS5W)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	6.06	6	99%	90% - 110%	5.27	5.12	97%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED

AGAT WORK ORDER: 19B437298

PROJECT: AGAT00503R

ATTENTION TO: Stephen Brooking

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Au	MIN-200-12006	BUGBEE, E: A Textbook of Fire Assaying	ICP-OES



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00784

AGAT WORK ORDER: 19B519053

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 08, 2019

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
C67833 (536129)		1.69
C67834 (536130)		1.84
C67835 (536131)		2.06
C67836 (536132)		1.04
C67837 (536133)		1.05
C67838 (536134)		1.05
C67839 (536135)		1.93
C67840 (536136)		2.25
C67841 (536137)		2.21
C67842 (536138)		2.12
C67843 (536139)		1.08
C67844 (536140)		1.31
C67845 (536141)		1.94
C67846 (536142)		0.10
C67847 (536143)		2.60
C67848 (536144)		2.12
C67849 (536145)		2.27
C67850 (536146)		2.06
C67851 (536147)		2.14
C67852 (536148)		0.66
C67853 (536149)		2.30
C67854 (536150)		2.44
C67855 (536151)		2.21
C67856 (536152)		2.05
C67857 (536153)		2.09
C67858 (536154)		2.09
C67859 (536155)		1.63
C67860 (536156)		0.83
C67861 (536157)		2.38
C67862 (536158)		2.48
C67863 (536159)		1.73

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## (200-) Sample Login Weight

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID)	RDL: 0.01
C67864 (536160)	0.68

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019	DATE RECEIVED: Sep 17, 2019							DATE REPORTED: Oct 08, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
C67833 (536129)	9.2	5.62	<1	473	0.7	<1	0.92	1.4	39	35.3	195	3150	10.6	23	
C67834 (536130)	3.1	7.74	2	478	2.1	<1	3.06	0.5	37	17.7	129	739	4.54	19	
C67835 (536131)	<0.5	7.57	2	337	0.9	<1	2.28	1.3	33	4.8	106	8.8	2.08	17	
C67836 (536132)	<0.5	7.60	<1	307	0.8	<1	2.09	1.4	35	4.2	106	3.7	2.01	17	
C67837 (536133)	0.7	7.90	2	317	1.0	<1	2.45	<0.5	42	6.0	102	2.9	2.28	18	
C67838 (536134)	0.6	7.88	1	301	0.9	<1	2.42	<0.5	44	6.1	113	4.2	2.32	18	
C67839 (536135)	1.4	7.86	3	499	1.8	<1	2.56	<0.5	37	6.2	85.2	18.6	2.14	18	
C67840 (536136)	0.8	8.06	2	390	1.6	<1	3.23	<0.5	37	5.6	91.7	9.2	2.15	17	
C67841 (536137)	1.1	7.60	1	408	1.2	<1	2.33	<0.5	33	6.9	98.3	18.8	2.05	17	
C67842 (536138)	<0.5	8.09	4	294	6.0	<1	2.73	<0.5	42	14.2	123	11.3	2.91	19	
C67843 (536139)	1.0	6.37	<1	197	0.8	<1	3.44	<0.5	30	23.2	222	52.5	5.11	17	
C67844 (536140)	1.3	8.82	<1	468	1.1	<1	2.22	<0.5	70	16.0	98.1	35.4	2.87	20	
C67845 (536141)	<0.5	7.82	<1	450	0.9	<1	2.89	<0.5	47	5.2	113	8.9	2.37	16	
C67846 (536142)	<0.5	7.15	<1	141	0.5	<1	6.66	<0.5	10	40.5	160	151	8.00	18	
C67847 (536143)	0.8	7.18	3	454	1.2	<1	2.21	<0.5	44	2.0	130	12.0	1.80	15	
C67848 (536144)	0.7	7.41	<1	449	0.9	<1	2.08	<0.5	48	2.9	87.4	6.0	1.64	15	
C67849 (536145)	0.8	7.15	2	355	1.2	<1	1.88	<0.5	45	7.9	88.6	21.4	1.46	17	
C67850 (536146)	0.6	7.58	3	331	1.2	<1	2.46	<0.5	48	7.6	93.8	16.2	1.37	16	
C67851 (536147)	0.6	7.39	1	391	1.0	<1	2.56	<0.5	50	6.0	85.5	24.0	1.23	16	
C67852 (536148)	<0.5	0.07	<1	17	<0.5	<1	30.6	<0.5	<1	0.6	6.9	4.8	0.18	<5	
C67853 (536149)	0.6	7.99	4	283	1.0	<1	2.71	<0.5	53	6.7	13.3	17.9	0.85	18	
C67854 (536150)	0.7	9.33	<1	383	0.9	<1	2.55	<0.5	56	15.2	12.6	23.7	1.82	22	
C67855 (536151)	<0.5	6.72	1	218	0.9	<1	2.33	<0.5	40	6.3	15.4	15.0	1.56	15	
C67856 (536152)	<0.5	7.25	3	390	1.0	<1	1.64	<0.5	47	6.3	11.3	14.6	0.59	17	
C67857 (536153)	<0.5	7.30	3	288	1.1	<1	2.01	<0.5	47	9.9	12.2	12.4	0.76	17	
C67858 (536154)	<0.5	7.09	4	270	1.1	<1	1.93	<0.5	47	9.5	14.7	13.0	0.79	16	
C67859 (536155)	<0.5	8.89	1	364	1.1	<1	3.03	<0.5	57	14.3	17.6	34.9	2.47	21	
C67860 (536156)	<0.5	6.99	1	1660	<0.5	<1	1.13	<0.5	17	3.3	13.9	4.5	0.92	11	
C67861 (536157)	<0.5	7.84	2	334	1.1	<1	2.59	<0.5	43	8.2	33.2	12.7	1.99	18	
C67862 (536158)	<0.5	2.84	<1	1100	2.8	<1	8.71	<0.5	161	45.0	647	96.9	8.77	20	
C67863 (536159)	<0.5	2.88	<1	1100	2.6	<1	8.59	<0.5	164	48.8	683	99.0	8.78	21	
C67864 (536160)	<0.5	7.67	3	422	0.9	<1	2.87	<0.5	40	9.9	41.0	19.3	3.06	17	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019	DATE RECEIVED: Sep 17, 2019					DATE REPORTED: Oct 08, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
C67833 (536129)	<1	2.41	16	30	0.76	459	4.7	1.17	18.2	950	26	<50	5.31	<1	
C67834 (536130)	<1	3.12	18	49	1.22	573	2.7	2.20	22.5	621	26	<50	1.61	<1	
C67835 (536131)	<1	1.77	17	34	0.82	353	2.1	2.21	7.8	367	<20	<50	0.04	<1	
C67836 (536132)	<1	1.61	18	36	0.77	355	2.1	2.30	7.2	373	<20	<50	0.04	<1	
C67837 (536133)	<1	1.63	22	47	0.86	390	1.9	2.56	11.2	408	<20	<50	0.04	<1	
C67838 (536134)	<1	1.60	23	47	0.88	392	2.1	2.52	11.0	404	<20	<50	0.04	<1	
C67839 (536135)	<1	2.74	19	86	0.77	401	2.3	2.55	8.4	668	58	<50	0.66	<1	
C67840 (536136)	<1	2.41	19	51	1.32	688	2.6	1.95	10.4	412	39	<50	0.38	<1	
C67841 (536137)	<1	2.90	17	24	1.09	593	2.8	1.84	9.5	571	55	<50	0.41	<1	
C67842 (536138)	<1	3.03	19	56	1.35	650	2.1	1.16	26.5	943	<20	<50	0.21	<1	
C67843 (536139)	<1	1.71	13	54	1.99	1330	2.1	0.68	48.9	589	<20	<50	1.01	<1	
C67844 (536140)	<1	2.62	31	60	0.92	573	1.7	1.99	11.3	566	<20	<50	0.42	<1	
C67845 (536141)	<1	1.82	24	38	1.26	616	2.5	1.66	10.1	598	<20	<50	0.10	<1	
C67846 (536142)	<1	0.21	3	13	4.41	1330	1.8	2.26	84.7	438	<20	<50	0.16	<1	
C67847 (536143)	<1	2.07	23	35	1.01	737	3.2	1.58	4.8	226	<20	<50	0.36	<1	
C67848 (536144)	<1	2.24	23	36	1.00	868	2.7	1.36	4.8	595	<20	<50	0.37	<1	
C67849 (536145)	<1	2.47	21	54	0.70	408	3.4	1.81	8.8	826	<20	<50	0.56	<1	
C67850 (536146)	<1	2.48	22	35	0.93	629	2.9	1.79	8.6	751	<20	<50	0.26	<1	
C67851 (536147)	<1	1.96	23	33	0.69	521	2.8	1.43	7.8	779	<20	<50	0.36	<1	
C67852 (536148)	<1	0.02	<2	2	2.50	110	1.4	0.03	0.7	73	<20	<50	0.05	2	
C67853 (536149)	<1	1.42	24	25	0.37	221	3.5	2.50	6.5	797	<20	<50	0.28	<1	
C67854 (536150)	<1	1.87	28	37	0.81	352	3.1	2.84	9.7	888	<20	<50	0.34	<1	
C67855 (536151)	<1	1.28	20	19	0.71	366	4.1	1.93	9.3	585	<20	<50	0.22	<1	
C67856 (536152)	<1	2.14	22	16	0.17	109	3.7	1.95	4.8	668	<20	<50	0.16	<1	
C67857 (536153)	<1	2.00	22	25	0.36	199	4.0	2.31	6.2	734	<20	<50	0.15	<1	
C67858 (536154)	<1	1.93	21	25	0.35	205	4.6	2.16	6.7	718	<20	<50	0.13	<1	
C67859 (536155)	<1	2.38	25	43	1.13	787	5.5	2.76	7.7	1890	<20	<50	0.41	<1	
C67860 (536156)	<1	5.90	7	30	0.33	245	9.6	1.43	5.5	1000	37	<50	0.12	<1	
C67861 (536157)	<1	1.39	22	46	0.81	418	8.0	3.02	14.9	566	<20	<50	0.16	<1	
C67862 (536158)	<1	2.62	81	76	9.18	1440	4.5	0.88	292	2690	<20	<50	0.25	<1	
C67863 (536159)	<1	2.70	84	70	9.57	1430	4.2	0.85	309	2780	<20	<50	0.27	<1	
C67864 (536160)	<1	1.59	20	97	1.75	728	5.6	3.60	24.0	477	<20	<50	0.23	<1	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019	DATE RECEIVED: Sep 17, 2019					DATE REPORTED: Oct 08, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
Sample ID (AGAT ID)															
C67833 (536129)	8	<10	12	65	<10	<10	<5	0.30	<5	<50	28.3	<1	15	273	
C67834 (536130)	12	<10	<5	167	<10	<10	<5	0.25	<5	<50	58.7	<1	14	159	
C67835 (536131)	5	<10	<5	141	<10	<10	<5	0.17	<5	<50	26.4	<1	7	60.9	
C67836 (536132)	4	<10	<5	154	<10	<10	<5	0.17	<5	<50	24.1	<1	7	76.3	
C67837 (536133)	6	<10	<5	177	<10	<10	<5	0.19	<5	<50	32.5	<1	8	48.6	
C67838 (536134)	5	<10	<5	173	<10	<10	<5	0.19	<5	<50	31.8	<1	8	44.1	
C67839 (536135)	7	<10	<5	147	<10	<10	<5	0.17	<5	<50	30.4	<1	11	119	
C67840 (536136)	9	<10	<5	130	<10	<10	<5	0.19	<5	<50	39.6	<1	12	111	
C67841 (536137)	6	<10	<5	112	<10	<10	<5	0.17	<5	<50	26.1	<1	12	104	
C67842 (536138)	12	<10	<5	111	<10	<10	<5	0.42	<5	<50	55.5	<1	18	108	
C67843 (536139)	15	<10	<5	85	<10	<10	<5	0.73	<5	<50	99.9	<1	17	101	
C67844 (536140)	12	<10	<5	153	<10	<10	<5	0.40	<5	<50	46.4	<1	19	65.1	
C67845 (536141)	7	<10	<5	159	<10	<10	<5	0.25	<5	<50	39.7	<1	11	50.0	
C67846 (536142)	47	<10	<5	109	<10	<10	<5	0.67	<5	<50	306	<1	23	75.0	
C67847 (536143)	3	<10	<5	99	<10	<10	<5	0.12	<5	<50	5.1	<1	9	79.9	
C67848 (536144)	5	<10	<5	92	<10	<10	<5	0.21	<5	<50	11.8	<1	14	51.2	
C67849 (536145)	7	<10	<5	120	<10	<10	<5	0.21	<5	<50	21.9	<1	15	109	
C67850 (536146)	6	<10	<5	116	<10	<10	<5	0.22	<5	<50	21.1	<1	20	64.6	
C67851 (536147)	7	<10	<5	113	<10	<10	<5	0.20	<5	<50	20.0	<1	19	104	
C67852 (536148)	<1	<10	<5	69	<10	<10	<5	<0.01	<5	<50	0.9	<1	2	4.9	
C67853 (536149)	9	<10	<5	143	<10	<10	<5	0.13	<5	<50	18.6	<1	17	39.1	
C67854 (536150)	11	<10	<5	174	<10	<10	<5	0.23	<5	<50	32.0	<1	15	53.9	
C67855 (536151)	7	<10	<5	119	<10	<10	<5	0.17	<5	<50	28.6	<1	9	111	
C67856 (536152)	7	<10	<5	91	<10	<10	<5	0.17	<5	<50	20.1	<1	13	19.0	
C67857 (536153)	9	<10	<5	111	<10	<10	<5	0.19	<5	<50	23.3	<1	15	25.7	
C67858 (536154)	9	<10	<5	104	<10	<10	<5	0.19	<5	<50	22.7	<1	15	22.0	
C67859 (536155)	11	<10	<5	136	<10	<10	<5	0.31	<5	<50	17.6	<1	25	132	
C67860 (536156)	4	<10	<5	160	<10	<10	<5	0.11	<5	<50	9.5	<1	12	35.9	
C67861 (536157)	8	<10	<5	176	<10	<10	<5	0.23	<5	<50	51.7	<1	10	65.8	
C67862 (536158)	26	<10	<5	972	<10	<10	<5	2.66	<5	<50	303	<1	24	81.0	
C67863 (536159)	28	<10	<5	926	<10	<10	<5	2.71	<5	<50	316	<1	28	79.1	
C67864 (536160)	10	<10	<5	254	<10	<10	<5	0.24	<5	<50	59.0	<1	12	108	

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# Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019      DATE RECEIVED: Sep 17, 2019      DATE REPORTED: Oct 08, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Zr	ppm	5
C67833 (536129)			116
C67834 (536130)			120
C67835 (536131)			124
C67836 (536132)			124
C67837 (536133)			146
C67838 (536134)			142
C67839 (536135)			113
C67840 (536136)			103
C67841 (536137)			141
C67842 (536138)			148
C67843 (536139)			55
C67844 (536140)			236
C67845 (536141)			135
C67846 (536142)			58
C67847 (536143)			163
C67848 (536144)			174
C67849 (536145)			179
C67850 (536146)			182
C67851 (536147)			165
C67852 (536148)			<5
C67853 (536149)			187
C67854 (536150)			178
C67855 (536151)			125
C67856 (536152)			156
C67857 (536153)			162
C67858 (536154)			164
C67859 (536155)			187
C67860 (536156)			101
C67861 (536157)			135
C67862 (536158)			208
C67863 (536159)			243
C67864 (536160)			131

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# Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit  
536129-536160 As, Sb values may be low due to digestion losses.  
Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 17, 2019      DATE RECEIVED: Sep 17, 2019      DATE REPORTED: Oct 08, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Au	Unit: ppm	RDL: 0.001
C67833 (536129)		0.078	
C67834 (536130)		0.039	
C67835 (536131)		0.003	
C67836 (536132)		0.003	
C67837 (536133)		0.002	
C67838 (536134)		0.003	
C67839 (536135)		0.008	
C67840 (536136)		0.006	
C67841 (536137)		0.008	
C67842 (536138)		0.007	
C67843 (536139)		0.021	
C67844 (536140)		0.010	
C67845 (536141)		0.004	
C67846 (536142)		0.529	
C67847 (536143)		0.015	
C67848 (536144)		0.010	
C67849 (536145)		0.007	
C67850 (536146)		0.006	
C67851 (536147)		0.006	
C67852 (536148)		0.001	
C67853 (536149)		0.007	
C67854 (536150)		0.008	
C67855 (536151)		0.006	
C67856 (536152)		0.003	
C67857 (536153)		0.004	
C67858 (536154)		0.003	
C67859 (536155)		0.010	
C67860 (536156)		0.004	
C67861 (536157)		0.003	
C67862 (536158)		0.002	
C67863 (536159)		0.002	
C67864 (536160)		0.004	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 17, 2019

DATE RECEIVED: Sep 17, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
C67833 (536129)		86.5
C67853 (536149)		85.98

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B519053

PROJECT: AGAT00784

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 17, 2019	DATE RECEIVED: Sep 17, 2019	DATE REPORTED: Oct 08, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
C67833 (536129)		85.6
C67853 (536149)		85

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	536129	9.2	9.2	0.0%	536145	0.85	0.88	3.5%	536155	0.5	0.5	0.0%				
Al	536129	5.62	5.69	1.2%	536145	7.15	7.20	0.7%	536155	8.89	9.07	2.0%				
As	536129	< 1	< 1	0.0%	536145	2	< 1		536155	1	2					
Ba	536129	473	517	8.9%	536145	355	348	2.0%	536155	364	377	3.5%				
Be	536129	0.71	0.81	13.2%	536145	1.2	1.2	0.0%	536155	1.1	1.1	0.0%				
Bi	536129	< 1	< 1	0.0%	536145	< 1	< 1	0.0%	536155	< 1	< 1	0.0%				
Ca	536129	0.92	0.92	0.0%	536145	1.88	1.87	0.5%	536155	3.03	3.15	3.9%				
Cd	536129	1.4	1.9		536145	< 0.5	< 0.5	0.0%	536155	< 0.5	< 0.5	0.0%				
Ce	536129	39	33	16.7%	536145	45	46	2.2%	536155	57	57	0.0%				
Co	536129	35.3	34.2	3.2%	536145	7.9	7.3	7.9%	536155	14.3	14.5	1.4%				
Cr	536129	195	232	17.3%	536145	88.6	117	27.6%	536155	17.6	16.1	8.9%				
Cu	536129	3150	3220	2.2%	536145	21.4	22.5	5.0%	536155	34.9	26.2	28.5%				
Fe	536129	10.6	10.4	1.9%	536145	1.46	1.46	0.0%	536155	2.47	2.52	2.0%				
Ga	536129	23	22	4.4%	536145	17	16	6.1%	536155	21	22	4.7%				
In	536129	< 1	< 1	0.0%	536145	< 1	< 1	0.0%	536155	< 1	< 1	0.0%				
K	536129	2.41	2.48	2.9%	536145	2.47	2.46	0.4%	536155	2.38	2.39	0.4%				
La	536129	16	14	13.3%	536145	21	21	0.0%	536155	25	25	0.0%				
Li	536129	30	30	0.0%	536145	54	53	1.9%	536155	43	43	0.0%				
Mg	536129	0.76	0.76	0.0%	536145	0.70	0.71	1.4%	536155	1.13	1.15	1.8%				
Mn	536129	459	465	1.3%	536145	408	417	2.2%	536155	787	799	1.5%				
Mo	536129	4.7	4.8	2.1%	536145	3.4	3.0	12.5%	536155	5.5	5.6	1.8%				
Na	536129	1.17	1.15	1.7%	536145	1.81	1.80	0.6%	536155	2.76	2.89	4.6%				
Ni	536129	18.2	18.2	0.0%	536145	8.8	8.4	4.7%	536155	7.7	7.1	8.1%				
P	536129	950	985	3.6%	536145	826	818	1.0%	536155	1890	1940	2.6%				
Pb	536129	26	28	7.4%	536145	< 20	< 20	0.0%	536155	< 20	< 20	0.0%				
Rb	536129	< 50	< 50	0.0%	536145	< 50	< 50	0.0%	536155	< 50	< 50	0.0%				
S	536129	5.31	5.12	3.6%	536145	0.559	0.550	1.6%	536155	0.408	0.426	4.3%				
Sb	536129	< 1	1		536145	< 1	< 1	0.0%	536155	< 1	< 1	0.0%				
Sc	536129	8	8	0.0%	536145	7	7	0.0%	536155	11	11	0.0%				
Se	536129	< 10	< 10	0.0%	536145	< 10	< 10	0.0%	536155	< 10	< 10	0.0%				
Sn	536129	12	12	0.0%	536145	< 5	< 5	0.0%	536155	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	536129	65	65	0.0%	536145	120	119	0.8%	536155	136	142	4.3%				
Ta	536129	< 10	< 10	0.0%	536145	< 10	< 10	0.0%	536155	< 10	< 10	0.0%				
Te	536129	< 10	< 10	0.0%	536145	< 10	< 10	0.0%	536155	< 10	< 10	0.0%				
Th	536129	< 5	< 5	0.0%	536145	< 5	< 5	0.0%	536155	< 5	< 5	0.0%				
Ti	536129	0.30	0.30	0.0%	536145	0.21	0.21	0.0%	536155	0.315	0.316	0.3%				
Tl	536129	< 5	< 5	0.0%	536145	< 5	< 5	0.0%	536155	< 5	< 5	0.0%				
U	536129	< 50	< 50	0.0%	536145	< 50	< 50	0.0%	536155	< 50	< 50	0.0%				
V	536129	28.3	28.1	0.7%	536145	21.9	21.7	0.9%	536155	17.6	17.7	0.6%				
W	536129	< 1	< 1	0.0%	536145	< 1	< 1	0.0%	536155	< 1	< 1	0.0%				
Y	536129	15	15	0.0%	536145	15	15	0.0%	536155	25	26	3.9%				
Zn	536129	273	337	21.0%	536145	109	111	1.8%	536155	132	136	3.0%				
Zr	536129	116	119	2.6%	536145	179	179	0.0%	536155	187	186	0.5%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	536129	0.078	0.099	23.7%	536145	0.007	0.007	0.0%	536155	0.0102	0.0117	13.7%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.WMG-1a)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Ag					3.03	2.83	93%	90% - 110%							
Al	10.95	10.71	98%	90% - 110%	4.75	4.84	102%	90% - 110%							
Ba	340	318	94%	90% - 110%	216	209	97%	90% - 110%							
Be	2.6	2.7	103%	90% - 110%											
Ca	5.72	5.68	99%	90% - 110%	10	9	93%	90% - 110%							
Ce	122	111	91%	90% - 110%											
Co					191	174	91%	90% - 110%							
Cr					670	619	92%	90% - 110%							
Cu					7120	7017	99%	90% - 110%							
Fe	4.34	4.21	97%	90% - 110%	12.71	12.04	95%	90% - 110%							
Ga	35	36	101%	90% - 110%											
K	1.37	1.44	105%	90% - 110%	0.1021	0.1102	108%	90% - 110%							
La	58	56	96%	90% - 110%	8.47	7.9	93%	90% - 110%							
Li	37	38	103%	90% - 110%											
Mg	0.325	0.298	92%	90% - 110%	7.41	7.5	101%	90% - 110%							
Mo					2.49	3.16	127%	90% - 110%							
Na	5.267	5.392	102%	90% - 110%	0.112	0.12	107%	90% - 110%							
Ni					2480	2305	92%	90% - 110%							
P					731	737	101%	90% - 110%							
Pb	10	9	90%	90% - 110%											
Sc	1.1	1	93%	90% - 110%	21.33	21.77	102%	90% - 110%							
Sr	1191	1146	96%	90% - 110%	39	38	97%	90% - 110%							
Ti	0.172	0.168	98%	90% - 110%	0.419	0.412	98%	90% - 110%							
V	8	8	104%	90% - 110%	158	165	104%	90% - 110%							
Y	119	127	106%	90% - 110%	12.67	13.39	106%	90% - 110%							
Zn	93	101	109%	90% - 110%	112	108	97%	90% - 110%							
Zr					35.7	38.7	108%	90% - 110%							

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.GS4H)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	6.87	6.69	97%	90% - 110%	5.01	4.91	98%	90% - 110%							





## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00784  
 SAMPLING SITE:

AGAT WORK ORDER: 19B519053  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00791

AGAT WORK ORDER: 19B522028

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 07, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Sep 23, 2019      DATE RECEIVED: Sep 24, 2019      DATE REPORTED: Oct 07, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D62401 (558142)		2.27
D62402 (558143)		2.70
D62403 (558144)		3.24
D62404 (558145)		2.29
D62405 (558146)		3.39
D62406 (558147)		.10
D62407 (558148)		3.10
D62408 (558149)		1.95
D62409 (558150)		1.77
D62410 (558151)		2.43
D62411 (558152)		2.51
D62412 (558153)		.70
D62413 (558154)		3.57
D62414 (558155)		2.77
D62415 (558156)		1.62
D62416 (558157)		2.49
D62417 (558158)		2.70
D62418 (558159)		2.70
D62419 (558160)		1.29

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 23, 2019	DATE RECEIVED: Sep 24, 2019							DATE REPORTED: Oct 07, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D62401 (558142)	<0.5	7.42	<1	92	0.6	<1	7.77	<0.5	7	43.1	249	129	8.08	19	
D62402 (558143)	<0.5	7.55	<1	79	0.6	<1	8.86	<0.5	8	52.1	76.7	126	11.1	22	
D62403 (558144)	<0.5	7.24	<1	147	0.6	<1	8.49	<0.5	7	47.3	64.7	133	9.97	21	
D62404 (558145)	<0.5	7.46	<1	57	0.5	<1	6.65	<0.5	7	42.2	73.1	126	9.52	22	
D62405 (558146)	<0.5	7.10	<1	64	0.5	<1	7.11	<0.5	7	44.2	72.2	122	9.86	21	
D62406 (558147)	<0.5	7.56	<1	192	0.8	<1	6.49	<0.5	21	37.4	193	105	8.11	20	
D62407 (558148)	<0.5	7.70	<1	67	0.8	<1	7.50	<0.5	8	48.4	70.4	143	10.3	23	
D62408 (558149)	<0.5	7.34	<1	53	0.6	<1	8.22	<0.5	7	47.2	67.1	119	9.96	23	
D62409 (558150)	<0.5	7.53	<1	52	0.6	<1	7.74	<0.5	8	47.6	68.7	123	10.6	23	
D62410 (558151)	<0.5	7.58	<1	55	1.4	<1	7.42	<0.5	7	48.4	67.4	129	9.61	22	
D62411 (558152)	<0.5	7.36	<1	140	0.8	<1	7.56	<0.5	14	44.1	186	103	9.33	21	
D62412 (558153)	<0.5	0.12	1	21	<0.5	<1	30.9	<0.5	<1	0.7	9.6	<0.5	0.20	<5	
D62413 (558154)	<0.5	7.24	<1	106	0.5	<1	7.47	<0.5	12	40.7	249	71.7	7.98	17	
D62414 (558155)	<0.5	7.81	<1	88	<0.5	<1	7.41	<0.5	6	43.2	259	76.1	8.28	19	
D62415 (558156)	<0.5	6.91	<1	69	<0.5	<1	7.39	<0.5	4	35.3	242	55.8	7.39	16	
D62416 (558157)	<0.5	7.48	<1	117	<0.5	<1	7.32	<0.5	6	41.2	253	162	8.33	18	
D62417 (558158)	<0.5	2.87	<1	662	2.2	<1	8.76	<0.5	129	56.8	682	84.4	8.34	16	
D62418 (558159)	<0.5	2.72	<1	666	2.2	<1	8.95	<0.5	127	55.5	675	82.5	8.44	16	
D62419 (558160)	<0.5	6.37	<1	365	1.0	<1	7.88	<0.5	12	40.1	319	75.8	7.91	18	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 23, 2019	DATE RECEIVED: Sep 24, 2019					DATE REPORTED: Oct 07, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D62401 (558142)	<1	0.24	<2	11	3.16	1620	4.3	1.50	109	281	<20	<50	0.17	<1	
D62402 (558143)	<1	0.35	2	11	3.73	1970	3.9	1.62	95.0	343	<20	<50	0.16	<1	
D62403 (558144)	<1	0.57	2	13	3.44	2020	3.2	1.53	81.3	330	<20	<50	0.16	<1	
D62404 (558145)	<1	0.17	2	15	3.80	1690	3.1	1.91	80.2	355	<20	<50	0.16	<1	
D62405 (558146)	<1	0.20	2	13	3.62	1870	3.4	1.53	79.6	314	<20	<50	0.13	1	
D62406 (558147)	<1	0.46	9	11	4.49	1350	2.0	2.32	107	902	<20	<50	0.09	<1	
D62407 (558148)	<1	0.23	2	11	3.51	1820	3.6	1.92	85.2	325	<20	<50	0.14	1	
D62408 (558149)	<1	0.19	2	10	3.14	1770	4.1	1.68	82.2	306	<20	<50	0.15	<1	
D62409 (558150)	<1	0.19	2	9	3.21	1880	3.4	1.98	83.8	321	<20	<50	0.15	<1	
D62410 (558151)	<1	0.30	<2	14	3.21	1780	3.0	1.94	85.4	311	<20	<50	0.12	<1	
D62411 (558152)	<1	0.66	6	21	4.17	1670	3.1	2.20	116	411	<20	<50	0.16	<1	
D62412 (558153)	<1	0.02	<2	1	1.37	117	1.3	0.05	1.5	97	<20	<50	0.03	<1	
D62413 (558154)	<1	0.40	5	16	3.84	1410	3.6	1.97	130	317	<20	<50	0.08	<1	
D62414 (558155)	<1	0.32	<2	9	4.33	1480	2.0	1.93	125	280	<20	<50	0.07	<1	
D62415 (558156)	<1	0.32	<2	10	4.43	1450	2.8	1.62	105	247	<20	<50	0.05	<1	
D62416 (558157)	<1	0.36	2	13	4.22	1490	1.9	2.30	122	276	<20	<50	0.17	<1	
D62417 (558158)	<1	1.62	57	19	9.62	1390	3.6	1.11	509	1890	<20	<50	0.17	<1	
D62418 (558159)	<1	1.63	56	19	9.85	1390	3.7	1.06	503	2160	<20	<50	0.17	<1	
D62419 (558160)	<1	0.60	3	32	3.96	1490	2.1	3.26	147	721	<20	<50	0.11	<1	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 23, 2019	DATE RECEIVED: Sep 24, 2019					DATE REPORTED: Oct 07, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D62401 (558142)	41	<10	<5	90	<10	<10	<5	0.56	<5	<50	280	<1	19	75.3	
D62402 (558143)	52	<10	<5	92	<10	<10	<5	0.82	<5	<50	400	<1	23	129	
D62403 (558144)	49	<10	<5	89	<10	<10	<5	0.74	<5	<50	371	<1	23	126	
D62404 (558145)	48	<10	<5	121	<10	<10	<5	0.75	<5	<50	366	<1	22	96.2	
D62405 (558146)	49	<10	<5	101	<10	<10	<5	0.73	<5	<50	382	<1	23	99.8	
D62406 (558147)	35	<10	<5	250	<10	<10	<5	0.83	<5	<50	249	<1	23	94.3	
D62407 (558148)	51	<10	<5	116	<10	<10	<5	0.77	<5	<50	389	<1	24	104	
D62408 (558149)	51	<10	<5	113	<10	<10	<5	0.75	<5	<50	386	<1	24	96.9	
D62409 (558150)	51	<10	<5	107	<10	<10	<5	0.79	<5	<50	392	<1	23	105	
D62410 (558151)	52	<10	<5	116	<10	<10	<5	0.76	<5	<50	389	<1	24	99.1	
D62411 (558152)	46	<10	<5	116	<10	<10	<5	0.69	<5	<50	337	<1	21	87.0	
D62412 (558153)	1	<10	<5	76	<10	<10	<5	0.01	<5	<50	7.2	<1	2	3.6	
D62413 (558154)	40	<10	<5	102	<10	<10	<5	0.56	<5	<50	277	<1	18	76.9	
D62414 (558155)	44	<10	<5	101	<10	<10	<5	0.59	<5	<50	302	<1	19	80.2	
D62415 (558156)	37	<10	<5	78	<10	<10	<5	0.49	<5	<50	256	<1	15	69.5	
D62416 (558157)	42	<10	<5	110	<10	<10	<5	0.56	<5	<50	285	<1	18	84.6	
D62417 (558158)	23	<10	<5	754	<10	<10	<5	1.51	<5	<50	260	<1	23	82.5	
D62418 (558159)	21	<10	<5	766	<10	<10	<5	1.63	<5	<50	254	<1	22	82.5	
D62419 (558160)	35	<10	<5	164	<10	<10	<5	0.63	<5	<50	245	<1	21	78.2	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 23, 2019      DATE RECEIVED: Sep 24, 2019      DATE REPORTED: Oct 07, 2019      SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
RDL:	5
Sample ID (AGAT ID)	
D62401 (558142)	17
D62402 (558143)	18
D62403 (558144)	18
D62404 (558145)	15
D62405 (558146)	19
D62406 (558147)	94
D62407 (558148)	13
D62408 (558149)	13
D62409 (558150)	15
D62410 (558151)	17
D62411 (558152)	27
D62412 (558153)	<5
D62413 (558154)	24
D62414 (558155)	13
D62415 (558156)	11
D62416 (558157)	17
D62417 (558158)	157
D62418 (558159)	207
D62419 (558160)	29

Comments: RDL - Reported Detection Limit  
 558142-558160 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 23, 2019	DATE RECEIVED: Sep 24, 2019	DATE REPORTED: Oct 07, 2019	SAMPLE TYPE: Drill Core
Analyte: Au	Unit: ppm	RDL: 0.001	
Sample ID (AGAT ID)			
D62401 (558142)		0.011	
D62402 (558143)		0.004	
D62403 (558144)		0.006	
D62404 (558145)		0.004	
D62405 (558146)		0.003	
D62406 (558147)		0.324	
D62407 (558148)		0.002	
D62408 (558149)		0.003	
D62409 (558150)		0.003	
D62410 (558151)		0.002	
D62411 (558152)		0.003	
D62412 (558153)		0.002	
D62413 (558154)		0.003	
D62414 (558155)		0.006	
D62415 (558156)		0.003	
D62416 (558157)		0.003	
D62417 (558158)		0.003	
D62418 (558159)		0.003	
D62419 (558160)		0.006	

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 23, 2019

DATE RECEIVED: Sep 24, 2019

DATE REPORTED: Oct 07, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D62401 (558142)		86.33
D62419 (558160)		75.11

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B522028

PROJECT: AGAT00791

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 23, 2019

DATE RECEIVED: Sep 24, 2019

DATE REPORTED: Oct 07, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D62401 (558142)	86

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	558142	< 0.5	< 0.5	0.0%	558156	< 0.5	< 0.5	0.0%								
Al	558142	7.42	7.95	6.9%	558156	6.91	6.91	0.0%								
As	558142	< 1	< 1	0.0%	558156	< 1	< 1	0.0%								
Ba	558142	92	98	6.3%	558156	69	70	1.4%								
Be	558142	0.65	0.69	6.0%	558156	< 0.5	< 0.5	0.0%								
Bi	558142	< 1	< 1	0.0%	558156	< 1	< 1	0.0%								
Ca	558142	7.77	8.61	10.3%	558156	7.39	7.45	0.8%								
Cd	558142	< 0.5	< 0.5	0.0%	558156	< 0.5	< 0.5	0.0%								
Ce	558142	7	6	15.4%	558156	4	5	22.2%								
Co	558142	43.1	44.0	2.1%	558156	35.3	35.7	1.1%								
Cr	558142	249	237	4.9%	558156	242	226	6.8%								
Cu	558142	129	115	11.5%	558156	55.8	56.0	0.4%								
Fe	558142	8.08	8.40	3.9%	558156	7.39	7.46	0.9%								
Ga	558142	19	20	5.1%	558156	16	16	0.0%								
In	558142	< 1	< 1	0.0%	558156	< 1	< 1	0.0%								
K	558142	0.245	0.256	4.4%	558156	0.32	0.32	0.0%								
La	558142	< 2	< 2	0.0%	558156	< 2	< 2	0.0%								
Li	558142	11	12	8.7%	558156	10	10	0.0%								
Mg	558142	3.16	3.13	1.0%	558156	4.43	4.45	0.5%								
Mn	558142	1620	1740	7.1%	558156	1450	1450	0.0%								
Mo	558142	4.31	3.64	16.9%	558156	2.8	1.9									
Na	558142	1.50	1.61	7.1%	558156	1.62	1.63	0.6%								
Ni	558142	109	113	3.6%	558156	105	104	1.0%								
P	558142	281	289	2.8%	558156	247	232	6.3%								
Pb	558142	< 20	< 20	0.0%	558156	< 20	< 20	0.0%								
Rb	558142	< 50	< 50	0.0%	558156	< 50	< 50	0.0%								
S	558142	0.166	0.153	8.2%	558156	0.05	0.05	0.0%								
Sb	558142	< 1	2		558156	< 1	< 1	0.0%								
Sc	558142	41	44	7.1%	558156	37	37	0.0%								
Se	558142	< 10	< 10	0.0%	558156	< 10	< 10	0.0%								
Sn	558142	< 5	< 5	0.0%	558156	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	558142	90	99	9.5%	558156	78	78	0.0%												
Ta	558142	< 10	< 10	0.0%	558156	< 10	< 10	0.0%												
Te	558142	< 10	< 10	0.0%	558156	< 10	< 10	0.0%												
Th	558142	< 5	< 5	0.0%	558156	< 5	< 5	0.0%												
Ti	558142	0.56	0.61	8.5%	558156	0.494	0.496	0.4%												
Tl	558142	< 5	< 5	0.0%	558156	< 5	< 5	0.0%												
U	558142	< 50	< 50	0.0%	558156	< 50	< 50	0.0%												
V	558142	280	297	5.9%	558156	256	257	0.4%												
W	558142	< 1	< 1	0.0%	558156	< 1	< 1	0.0%												
Y	558142	19	20	5.1%	558156	15	16	6.5%												
Zn	558142	75.3	78.0	3.5%	558156	69.5	67.9	2.3%												
Zr	558142	17	20	16.2%	558156	11	10	9.5%												
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																				
	REPLICATE #1				REPLICATE #2															
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD												
Au	558142	0.011	0.010	9.5%	558156	0.003	0.003	0.0%												



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)													
	Expect	Actual	Recovery	Limits										
Al	10.95	10.86	99%	90% - 110%										
Ba	340	336	99%	90% - 110%										
Be	2.6	2.9	113%	90% - 110%										
Ca	5.72	5.77	101%	90% - 110%										
Ce	122	119	98%	90% - 110%										
Cr	12	11	91%	90% - 110%										
Fe	4.34	4.32	99%	90% - 110%										
Ga	35	38	109%	90% - 110%										
K	1.37	1.47	107%	90% - 110%										
La	58	55	94%	90% - 110%										
Li	37	38	104%	90% - 110%										
Mg	0.325	0.309	95%	90% - 110%										
Na	5.267	5.422	103%	90% - 110%										
Pb	10	7	72%	90% - 110%										
Sc	1.1	1.2	107%	90% - 110%										
Sr	1191	1177	99%	90% - 110%										
Ti	0.172	0.162	94%	90% - 110%										
V	8	8	97%	90% - 110%										
Y	119	127	107%	90% - 110%										
Zn	93	101	108%	90% - 110%										

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GS6F)													
	Expect	Actual	Recovery	Limits										
Au	6.87	6.31	92%	90% - 110%										

## Method Summary

 CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00791  
 SAMPLING SITE:

 AGAT WORK ORDER: 19B522028  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00828

AGAT WORK ORDER: 19B533324

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 06, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Oct 20, 2019      DATE RECEIVED: Oct 21, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D62420 (636494)		3.39
D62421 (636495)		3.22
D62422 (636496)		2.27
D62423 (636497)		3.47
D62424 (636498)		2.07
D62425 (636499)		1.29
D62426 (636500)		0.10
D62427 (636501)		3.16
D62428 (636502)		1.77
D62429 (636503)		3.48
D62430 (636504)		3.29
D62431 (636505)		3.43
D62432 (636506)		0.71
D62433 (636507)		2.01
D62434 (636508)		2.70
D62435 (636509)		3.30
D62436 (636510)		2.78
D62437 (636511)		1.42
D62438 (636512)		1.42
D62439 (636513)		2.02
D62440 (636514)		1.60
Z39734 (636515)		5.29

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 20, 2019

DATE RECEIVED: Oct 21, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5
D62420 (636494)		<0.5	9.63	<1	44	<0.5	<1	7.70	<0.5	5	44.5	240	60.4	6.99	17
D62421 (636495)		<0.5	9.28	<1	50	<0.5	<1	7.42	<0.5	5	46.0	213	66.6	7.11	17
D62422 (636496)		<0.5	8.84	<1	80	<0.5	<1	6.84	<0.5	5	45.5	210	63.9	7.08	15
D62423 (636497)		0.9	2.65	<1	626	2.2	<1	8.55	<0.5	125	61.2	661	89.0	9.06	15
D62424 (636498)		0.9	2.73	<1	776	1.8	<1	8.09	<0.5	137	61.9	676	104	9.39	16
D62425 (636499)		<0.5	8.54	<1	79	<0.5	<1	7.27	<0.5	10	50.5	289	94.8	8.48	18
D62426 (636500)		<0.5	7.17	<1	146	<0.5	<1	7.02	<0.5	10	38.7	166	149	8.26	17
D62427 (636501)		<0.5	8.94	<1	53	<0.5	<1	7.37	<0.5	6	38.4	221	69.3	7.75	18
D62428 (636502)		<0.5	9.05	<1	52	<0.5	<1	7.21	<0.5	8	38.3	177	72.3	7.33	19
D62429 (636503)		<0.5	8.45	<1	30	<0.5	<1	6.75	<0.5	5	50.2	137	95.4	8.11	17
D62430 (636504)		<0.5	8.18	<1	29	<0.5	<1	6.90	<0.5	7	46.1	153	113	8.68	17
D62431 (636505)		<0.5	8.19	<1	39	0.6	<1	6.99	<0.5	9	46.1	157	116	9.19	19
D62432 (636506)		<0.5	0.08	3	25	<0.5	<1	33.0	<0.5	<1	0.6	2.8	3.1	0.17	<5
D62433 (636507)		<0.5	7.64	<1	31	1.1	<1	6.74	<0.5	8	44.0	157	101	8.67	17
D62434 (636508)		<0.5	7.85	<1	35	0.7	<1	7.12	<0.5	8	42.3	186	134	9.14	18
D62435 (636509)		<0.5	7.55	<1	43	0.7	<1	6.43	<0.5	9	43.4	100	136	9.81	20
D62436 (636510)		<0.5	7.70	<1	40	0.8	<1	6.80	<0.5	9	44.0	92.5	118	10.1	20
D62437 (636511)		<0.5	7.57	<1	117	0.8	<1	6.05	<0.5	65	36.7	115	100	7.87	19
D62438 (636512)		<0.5	7.30	<1	117	0.8	<1	5.81	<0.5	62	34.4	108	89.2	7.48	18
D62439 (636513)		<0.5	7.25	<1	44	1.7	<1	6.05	<0.5	9	38.9	88.2	98.0	8.96	20
D62440 (636514)		<0.5	7.05	<1	26	0.6	<1	6.91	<0.5	9	37.0	79.8	102	8.45	21
Z39734 (636515)		<0.5	9.12	<1	192	0.6	<1	6.26	<0.5	14	34.6	183	41.4	5.78	17

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 20, 2019

DATE RECEIVED: Oct 21, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1
D62420 (636494)		<1	0.14	2	13	4.81	1080	4.4	1.56	208	225	<20	<50	0.09	<1
D62421 (636495)		<1	0.18	<2	12	5.11	1120	3.9	1.58	230	190	<20	<50	0.08	<1
D62422 (636496)		<1	0.29	2	17	5.25	1110	2.6	1.63	239	223	<20	<50	0.07	<1
D62423 (636497)		<1	1.27	55	20	10.3	1350	3.4	0.66	571	2520	<20	64	0.19	<1
D62424 (636498)		<1	1.60	62	15	10.4	1420	3.1	0.61	547	2430	<20	81	0.23	<1
D62425 (636499)		<1	0.28	4	20	5.67	1370	2.0	1.87	246	385	<20	<50	0.13	<1
D62426 (636500)		<1	0.20	3	13	4.32	1370	1.8	2.31	88.8	425	<20	<50	0.17	<1
D62427 (636501)		<1	0.18	<2	16	4.28	1160	1.9	2.35	134	252	<20	<50	0.09	<1
D62428 (636502)		<1	0.17	3	16	4.14	1020	2.2	2.36	140	241	<20	<50	0.08	<1
D62429 (636503)		<1	0.11	2	18	5.65	1110	1.8	1.66	260	244	<20	<50	0.05	<1
D62430 (636504)		<1	0.11	2	18	5.22	1310	3.1	1.68	192	259	<20	<50	0.10	<1
D62431 (636505)		<1	0.12	3	17	4.84	1410	3.9	1.89	155	303	<20	<50	0.13	<1
D62432 (636506)		<1	0.01	<2	1	1.54	115	0.9	0.03	1.0	85	<20	<50	0.07	<1
D62433 (636507)		<1	0.14	3	19	4.43	1350	3.4	1.82	138	293	<20	<50	0.11	<1
D62434 (636508)		<1	0.17	2	17	4.67	1390	3.7	1.87	143	275	<20	<50	0.11	<1
D62435 (636509)		<1	0.16	3	14	4.27	1420	3.1	2.05	89.6	344	<20	<50	0.13	<1
D62436 (636510)		<1	0.20	3	11	3.99	1490	3.1	2.28	87.2	342	<20	<50	0.12	<1
D62437 (636511)		<1	0.28	30	16	3.88	1220	3.6	2.76	102	857	<20	<50	0.12	<1
D62438 (636512)		<1	0.28	28	15	3.71	1160	2.4	2.69	95.7	781	<20	<50	0.10	<1
D62439 (636513)		<1	0.34	3	25	3.63	1390	2.4	2.82	73.0	337	<20	<50	0.11	<1
D62440 (636514)		<1	0.16	3	9	3.24	1390	2.4	2.53	67.5	384	<20	<50	0.10	<1
Z39734 (636515)		<1	0.46	8	12	3.75	888	1.9	2.06	160	241	<20	<50	0.06	<1

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 20, 2019

DATE RECEIVED: Oct 21, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
D62420 (636494)	28	<10	<5	124	<10	<10	<5	0.38	<5	<50	212	<1	13	55.7
D62421 (636495)	28	<10	<5	126	<10	<10	<5	0.37	<5	<50	214	<1	13	59.2
D62422 (636496)	27	<10	<5	136	<10	<10	<5	0.37	<5	<50	204	<1	13	69.7
D62423 (636497)	21	<10	<5	639	<10	<10	<5	1.91	<5	<50	243	<1	23	93.9
D62424 (636498)	21	<10	<5	697	<10	<10	<5	2.05	<5	<50	286	<1	23	86.4
D62425 (636499)	37	<10	<5	143	<10	<10	<5	0.54	<5	<50	290	<1	19	104
D62426 (636500)	45	<10	<5	118	<10	<10	<5	0.65	<5	<50	312	<1	22	78.3
D62427 (636501)	38	<10	<5	146	<10	<10	<5	0.54	<5	<50	289	<1	18	68.4
D62428 (636502)	34	<10	<5	185	<10	<10	<5	0.48	<5	<50	266	<1	17	60.3
D62429 (636503)	31	<10	<5	103	<10	<10	<5	0.43	<5	<50	232	<1	16	72.9
D62430 (636504)	36	<10	<5	113	<10	<10	<5	0.51	<5	<50	267	<1	18	73.8
D62431 (636505)	40	<10	<5	113	<10	<10	<5	0.57	<5	<50	301	<1	21	85.7
D62432 (636506)	1	<10	<5	77	<10	<10	<5	<0.01	<5	<50	2.1	<1	2	4.1
D62433 (636507)	41	<10	<5	111	<10	<10	<5	0.54	<5	<50	309	<1	22	79.0
D62434 (636508)	42	<10	<5	122	<10	<10	<5	0.59	<5	<50	309	<1	20	84.9
D62435 (636509)	46	<10	<5	125	<10	<10	<5	0.68	<5	<50	360	<1	24	92.9
D62436 (636510)	47	<10	<5	150	<10	<10	<5	0.70	<5	<50	368	<1	26	91.5
D62437 (636511)	36	<10	<5	142	<10	<10	<5	0.58	<5	<50	287	<1	24	71.5
D62438 (636512)	35	<10	<5	137	<10	<10	<5	0.55	<5	<50	274	<1	23	68.1
D62439 (636513)	47	<10	<5	158	<10	<10	<5	0.62	<5	<50	352	<1	23	74.2
D62440 (636514)	42	<10	<5	175	<10	<10	<5	0.60	<5	<50	328	<1	23	76.5
Z39734 (636515)	23	<10	<5	190	<10	<10	<5	0.34	<5	<50	175	<1	11	55.6

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 20, 2019      DATE RECEIVED: Oct 21, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
D62420 (636494)				13
D62421 (636495)				15
D62422 (636496)				13
D62423 (636497)				232
D62424 (636498)				236
D62425 (636499)				24
D62426 (636500)				53
D62427 (636501)				17
D62428 (636502)				15
D62429 (636503)				12
D62430 (636504)				12
D62431 (636505)				15
D62432 (636506)				<5
D62433 (636507)				16
D62434 (636508)				13
D62435 (636509)				14
D62436 (636510)				16
D62437 (636511)				60
D62438 (636512)				55
D62439 (636513)				19
D62440 (636514)				15
Z39734 (636515)				39

Comments: RDL - Reported Detection Limit  
 636494-636515 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 20, 2019      DATE RECEIVED: Oct 21, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
D62420 (636494)			0.03
D62421 (636495)			0.003
D62422 (636496)			0.002
D62423 (636497)			0.003
D62424 (636498)			0.002
D62425 (636499)			0.002
D62426 (636500)			0.506
D62427 (636501)			0.002
D62428 (636502)			0.002
D62429 (636503)			0.002
D62430 (636504)			0.002
D62431 (636505)			0.015
D62432 (636506)			0.002
D62433 (636507)			0.002
D62434 (636508)			0.003
D62435 (636509)			0.002
D62436 (636510)			0.003
D62437 (636511)			0.002
D62438 (636512)			0.002
D62439 (636513)			0.003
D62440 (636514)			0.005
Z39734 (636515)			0.002

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 20, 2019	DATE RECEIVED: Oct 21, 2019	DATE REPORTED: Nov 06, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D62422 (636496)		80.1
D62438 (636512)		80.34

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B533324

PROJECT: AGAT00828

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 20, 2019

DATE RECEIVED: Oct 21, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D62420 (636494)	97

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	636494	< 0.5	< 0.5	0.0%	636508	< 0.5	< 0.5	0.0%								
Al	636494	9.63	9.82	2.0%	636508	7.85	7.92	0.9%								
As	636494	< 1	< 1	0.0%	636508	< 1	< 1	0.0%								
Ba	636494	44	40	9.5%	636508	35	34	2.9%								
Be	636494	< 0.5	< 0.5	0.0%	636508	0.7	0.7	0.0%								
Bi	636494	< 1	< 1	0.0%	636508	< 1	< 1	0.0%								
Ca	636494	7.70	7.93	2.9%	636508	7.12	7.14	0.3%								
Cd	636494	< 0.5	< 0.5	0.0%	636508	< 0.5	< 0.5	0.0%								
Ce	636494	5	5	0.0%	636508	8	7	13.3%								
Co	636494	44.5	44.7	0.4%	636508	42.3	45.6	7.5%								
Cr	636494	240	245	2.1%	636508	186	183	1.6%								
Cu	636494	60.4	64.5	6.6%	636508	134	127	5.4%								
Fe	636494	6.99	7.24	3.5%	636508	9.14	9.14	0.0%								
Ga	636494	17	16	6.1%	636508	18	18	0.0%								
In	636494	< 1	< 1	0.0%	636508	< 1	< 1	0.0%								
K	636494	0.14	0.13	7.4%	636508	0.173	0.175	1.1%								
La	636494	2	2	0.0%	636508	2	3									
Li	636494	13	13	0.0%	636508	17	17	0.0%								
Mg	636494	4.81	4.98	3.5%	636508	4.67	4.69	0.4%								
Mn	636494	1080	1110	2.7%	636508	1390	1400	0.7%								
Mo	636494	4.4	4.2	4.7%	636508	3.70	3.52	5.0%								
Na	636494	1.56	1.56	0.0%	636508	1.87	1.89	1.1%								
Ni	636494	208	212	1.9%	636508	143	148	3.4%								
P	636494	225	219	2.7%	636508	275	275	0.0%								
Pb	636494	< 20	< 20	0.0%	636508	< 20	< 20	0.0%								
Rb	636494	< 50	< 50	0.0%	636508	< 50	< 50	0.0%								
S	636494	0.09	0.09	0.0%	636508	0.105	0.104	1.0%								
Sb	636494	< 1	< 1	0.0%	636508	< 1	< 1	0.0%								
Sc	636494	28	28	0.0%	636508	42	43	2.4%								
Se	636494	< 10	< 10	0.0%	636508	< 10	< 10	0.0%								
Sn	636494	< 5	< 5	0.0%	636508	< 5	< 5	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	636494	124	123	0.8%	636508	122	123	0.8%								
Ta	636494	< 10	< 10	0.0%	636508	< 10	< 10	0.0%								
Te	636494	< 10	< 10	0.0%	636508	< 10	< 10	0.0%								
Th	636494	< 5	< 5	0.0%	636508	< 5	< 5	0.0%								
Ti	636494	0.38	0.38	0.0%	636508	0.59	0.59	0.0%								
Tl	636494	< 5	< 5	0.0%	636508	< 5	< 5	0.0%								
U	636494	< 50	< 50	0.0%	636508	< 50	< 50	0.0%								
V	636494	212	212	0.0%	636508	309	317	2.6%								
W	636494	< 1	< 1	0.0%	636508	< 1	< 1	0.0%								
Y	636494	13	13	0.0%	636508	20	20	0.0%								
Zn	636494	55.7	58.9	5.6%	636508	84.9	82.4	3.0%								
Zr	636494	13	13	0.0%	636508	13	14	7.4%								

### (202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au		0.003	0.002	18.2%	636508	0.003	0.003	9.2%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.73	98%	90% - 110%	8.17	8.24	101%	90% - 110%								
As					26	25	95%	90% - 110%								
Ba	340	330	97%	90% - 110%	540	504	93%	90% - 110%								
Be	2.6	3	116%	90% - 110%	4.0	3.9	96%	90% - 110%								
Ca	5.72	5.65	99%	90% - 110%	0.907	0.912	101%	90% - 110%								
Ce	122	120	98%	90% - 110%	98	107	109%	90% - 110%								
Cr					60.3	68	113%	90% - 110%								
Cu					150	148	99%	90% - 110%								
Fe	4.34	4.21	97%	90% - 110%	3.77	3.79	100%	90% - 110%								
Ga	35	35	100%	90% - 110%												
K	1.37	1.4	102%	90% - 110%												
La	58	54	93%	90% - 110%	44	45	103%	90% - 110%								
Li	37	38	104%	90% - 110%	47	48	103%	90% - 110%								
Mg	0.325	0.3	92%	90% - 110%	1.10	1.06	96%	90% - 110%								
Mn					780	744	95%	90% - 110%								
Mo					14	15	105%	90% - 110%								
Na	5.267	5.352	102%	90% - 110%	1.624	1.681	103%	90% - 110%								
Ni	9	6	72%	90% - 110%	32	35	108%	90% - 110%								
P					750	789	105%	90% - 110%								
Pb					31	29	92%	90% - 110%								
Rb	55	60	109%	90% - 110%	143	144	101%	90% - 110%								
Sc	1.1	1.2	105%	90% - 110%	12	13	106%	90% - 110%								
Sr	1191	1210	102%	90% - 110%	144	150	104%	90% - 110%								
Ti	0.172	0.162	94%	90% - 110%	0.53	0.46	88%	90% - 110%								
V	8	8	105%	90% - 110%	77	85	110%	90% - 110%								
Y	119	123	103%	90% - 110%												
Zn	93	93	100%	90% - 110%	130	119	91%	90% - 110%								

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.67	96%	90% - 110%	6.56	6.37	97%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00828  
 SAMPLING SITE:

AGAT WORK ORDER: 19B533324  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00836

AGAT WORK ORDER: 19B534537

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 06, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Oct 22, 2019      DATE RECEIVED: Oct 23, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72559 (644741)		4.18
D72560 (644742)		2.87
D72561 (644743)		2.22
D72562 (644744)		2.75
D72563 (644745)		1.93
D72564 (644746)		2.18
D72565 (644747)		1.79
D72566 (644748)		0.10
D72567 (644749)		1.84
D72568 (644750)		1.38
D72569 (644751)		2.61
D72570 (644752)		1.67
D72571 (644753)		2.67
D72572 (644754)		0.72
D72573 (644755)		2.24
D72574 (644756)		1.21
D72575 (644757)		1.53
D72576 (644758)		2.23
D72577 (644759)		1.92
D72578 (644760)		1.92
D72579 (644761)		1.65
D72580 (644762)		2.25
D72581 (644763)		2.82
D72582 (644764)		3.20
D72583 (644765)		1.77

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 22, 2019	DATE RECEIVED: Oct 23, 2019							DATE REPORTED: Nov 06, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72559 (644741)	<0.5	8.25	<1	329	1.6	<1	5.80	<0.5	47	27.3	120	53.9	6.57	21	
D72560 (644742)	<0.5	6.81	<1	50	0.6	<1	5.77	<0.5	14	40.4	40.1	132	12.1	23	
D72561 (644743)	<0.5	6.96	<1	49	0.7	<1	6.27	<0.5	14	42.9	27.1	154	13.0	23	
D72562 (644744)	<0.5	6.76	<1	63	1.0	<1	5.37	<0.5	15	38.2	28.5	117	11.7	24	
D72563 (644745)	<0.5	7.00	<1	92	0.7	<1	6.35	<0.5	14	41.2	27.4	108	11.8	23	
D72564 (644746)	<0.5	6.77	<1	66	0.7	<1	5.96	<0.5	15	42.1	31.2	93.2	11.5	24	
D72565 (644747)	<0.5	6.70	<1	65	0.7	<1	5.73	<0.5	14	43.8	30.0	126	11.0	24	
D72566 (644748)	<0.5	7.22	<1	144	<0.5	<1	7.13	<0.5	9	40.8	172	153	8.21	18	
D72567 (644749)	<0.5	6.92	<1	354	0.9	<1	6.19	<0.5	36	38.9	58.1	106	10.2	23	
D72568 (644750)	<0.5	2.82	<1	809	1.9	<1	8.35	<0.5	130	56.6	736	94.2	8.74	15	
D72569 (644751)	<0.5	7.13	<1	210	1.0	<1	6.42	<0.5	10	39.7	163	102	8.98	19	
D72570 (644752)	0.8	6.88	<1	440	1.5	<1	5.55	<0.5	8	37.3	187	106	8.21	18	
D72571 (644753)	<0.5	7.30	5	841	3.7	<1	4.96	<0.5	114	22.3	86.1	49.7	4.26	17	
D72572 (644754)	<0.5	0.11	<1	29	<0.5	<1	32.0	<0.5	<1	0.7	9.3	14.9	0.27	<5	
D72573 (644755)	<0.5	7.32	<1	246	2.3	<1	6.32	<0.5	12	43.6	176	107	9.00	17	
D72574 (644756)	<0.5	7.08	<1	247	1.2	<1	6.91	<0.5	9	42.6	164	101	9.01	17	
D72575 (644757)	0.6	8.03	<1	843	2.8	<1	4.51	<0.5	79	13.8	32.4	68.8	3.60	19	
D72576 (644758)	<0.5	7.51	<1	197	0.8	<1	8.07	<0.5	9	47.0	207	115	9.32	18	
D72577 (644759)	<0.5	7.49	<1	174	<0.5	<1	7.35	<0.5	8	46.1	234	109	10.3	19	
D72578 (644760)	<0.5	7.52	<1	182	<0.5	<1	7.42	<0.5	8	46.1	209	115	10.2	17	
D72579 (644761)	<0.5	7.39	<1	218	<0.5	<1	8.63	<0.5	7	39.5	176	166	9.68	17	
D72580 (644762)	<0.5	7.99	<1	131	0.5	<1	7.52	<0.5	8	45.8	194	130	9.49	20	
D72581 (644763)	<0.5	7.67	<1	126	<0.5	<1	7.57	<0.5	8	44.6	200	94.6	9.50	18	
D72582 (644764)	<0.5	8.14	<1	111	0.5	<1	7.36	<0.5	8	46.3	212	151	10.1	19	
D72583 (644765)	<0.5	7.32	<1	83	<0.5	<1	7.33	<0.5	7	41.9	196	124	8.86	16	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 22, 2019	DATE RECEIVED: Oct 23, 2019					DATE REPORTED: Nov 06, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D72559 (644741)	<1	0.93	21	14	2.58	1080	5.3	2.41	58.0	773	<20	<50	0.08	<1	
D72560 (644742)	<1	0.20	4	11	3.22	2140	4.2	1.59	48.4	522	<20	<50	0.22	<1	
D72561 (644743)	<1	0.17	4	12	3.32	2460	4.1	1.51	48.2	546	<20	<50	0.26	<1	
D72562 (644744)	<1	0.19	4	14	3.15	1980	3.7	1.63	45.8	572	<20	<50	0.21	<1	
D72563 (644745)	<1	0.27	4	13	2.90	2140	4.0	1.53	49.3	586	<20	<50	0.17	<1	
D72564 (644746)	<1	0.17	4	12	2.94	1940	4.3	1.65	48.6	592	<20	<50	0.16	<1	
D72565 (644747)	<1	0.16	4	10	3.05	1800	4.1	1.92	48.3	578	<20	<50	0.20	<1	
D72566 (644748)	<1	0.20	3	13	4.41	1400	1.9	2.30	91.2	436	<20	<50	0.17	<1	
D72567 (644749)	<1	0.66	15	13	3.12	1630	3.4	2.56	63.0	894	<20	<50	0.31	<1	
D72568 (644750)	<1	1.77	60	29	10.4	1400	4.0	0.76	53.4	2160	<20	87	0.22	<1	
D72569 (644751)	<1	0.65	3	12	3.76	1410	2.7	2.89	93.7	360	<20	<50	0.29	<1	
D72570 (644752)	<1	1.15	3	28	4.29	1260	2.8	3.53	97.0	293	<20	<50	0.25	<1	
D72571 (644753)	<1	1.60	50	30	2.66	744	3.6	3.68	71.5	1700	<20	55	0.36	<1	
D72572 (644754)	<1	0.03	<2	2	1.75	105	1.5	0.05	1.0	74	<20	<50	0.17	<1	
D72573 (644755)	<1	1.13	4	31	3.34	1520	3.7	2.74	111	282	<20	<50	0.42	<1	
D72574 (644756)	<1	0.72	3	16	2.93	1440	4.5	2.67	104	267	<20	<50	0.77	<1	
D72575 (644757)	<1	1.47	35	22	1.81	600	4.6	3.27	31.2	1280	<20	<50	0.96	<1	
D72576 (644758)	<1	0.61	3	13	3.28	1680	4.0	1.57	115	281	<20	<50	0.22	<1	
D72577 (644759)	<1	0.47	2	16	3.73	1800	4.5	1.39	115	280	<20	<50	0.16	<1	
D72578 (644760)	<1	0.48	2	16	3.70	1820	4.5	1.37	113	282	<20	<50	0.16	<1	
D72579 (644761)	<1	0.39	2	17	3.58	1860	2.5	1.25	102	272	<20	<50	0.24	<1	
D72580 (644762)	<1	0.20	2	15	3.09	1640	2.9	1.78	117	294	<20	<50	0.20	<1	
D72581 (644763)	<1	0.19	3	14	3.37	1700	2.2	1.57	111	293	<20	<50	0.12	<1	
D72582 (644764)	<1	0.20	2	18	3.38	1730	2.5	1.70	118	280	<20	<50	0.18	<1	
D72583 (644765)	<1	0.18	2	16	3.00	1690	2.5	1.26	104	277	<20	<50	0.18	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 22, 2019	DATE RECEIVED: Oct 23, 2019					DATE REPORTED: Nov 06, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72559 (644741)	26	<10	<5	326	<10	<10	<5	0.53	<5	<50	203	<1	22	70.9	
D72560 (644742)	47	<10	<5	86	<10	<10	<5	0.96	<5	<50	473	<1	37	118	
D72561 (644743)	48	<10	<5	80	<10	<10	<5	0.99	<5	<50	487	<1	40	138	
D72562 (644744)	46	<10	<5	76	<10	<10	<5	0.94	<5	<50	471	<1	39	117	
D72563 (644745)	48	<10	<5	127	<10	<10	<5	1.01	<5	<50	483	<1	38	129	
D72564 (644746)	48	<10	<5	124	<10	<10	<5	0.98	<5	<50	485	<1	39	121	
D72565 (644747)	46	<10	<5	141	<10	<10	<5	0.93	<5	<50	469	<1	37	127	
D72566 (644748)	46	<10	<5	118	<10	<10	<5	0.65	<5	<50	315	<1	22	79.7	
D72567 (644749)	43	<10	<5	306	<10	<10	<5	0.96	<5	<50	435	<1	35	120	
D72568 (644750)	24	<10	<5	862	<10	<10	<5	1.61	<5	<50	267	<1	22	81.9	
D72569 (644751)	41	<10	<5	412	<10	<10	<5	0.64	<5	<50	339	<1	24	89.1	
D72570 (644752)	39	<10	<5	346	<10	<10	<5	0.53	<5	<50	289	<1	22	71.8	
D72571 (644753)	21	<10	<5	757	<10	<10	<5	0.27	<5	<50	152	<1	44	54.2	
D72572 (644754)	<1	<10	<5	74	<10	<10	<5	<0.01	<5	<50	2.1	<1	3	6.3	
D72573 (644755)	43	<10	<5	284	<10	<10	<5	0.54	<5	<50	308	<1	20	85.4	
D72574 (644756)	39	<10	<5	325	<10	<10	<5	0.55	<5	<50	285	<1	19	85.2	
D72575 (644757)	12	<10	<5	761	<10	<10	<5	0.35	<5	<50	95.8	<1	16	64.7	
D72576 (644758)	42	<10	<5	214	<10	<10	<5	0.57	<5	<50	323	<1	22	90.4	
D72577 (644759)	43	<10	<5	137	<10	<10	<5	0.62	<5	<50	333	<1	21	91.2	
D72578 (644760)	43	<10	<5	139	<10	<10	<5	0.62	<5	<50	325	<1	21	88.2	
D72579 (644761)	41	<10	<5	80	<10	<10	<5	0.58	<5	<50	313	<1	20	80.4	
D72580 (644762)	45	<10	<5	102	<10	<10	<5	0.63	<5	<50	340	<1	22	82.5	
D72581 (644763)	43	<10	<5	112	<10	<10	<5	0.61	<5	<50	327	<1	20	82.3	
D72582 (644764)	45	<10	<5	119	<10	<10	<5	0.64	<5	<50	346	<1	22	93.1	
D72583 (644765)	40	<10	<5	102	<10	<10	<5	0.56	<5	<50	301	<1	19	74.8	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 22, 2019

DATE RECEIVED: Oct 23, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
RDL:	5
Sample ID (AGAT ID)	
D72559 (644741)	148
D72560 (644742)	20
D72561 (644743)	18
D72562 (644744)	27
D72563 (644745)	17
D72564 (644746)	19
D72565 (644747)	18
D72566 (644748)	55
D72567 (644749)	43
D72568 (644750)	145
D72569 (644751)	19
D72570 (644752)	35
D72571 (644753)	157
D72572 (644754)	<5
D72573 (644755)	22
D72574 (644756)	18
D72575 (644757)	147
D72576 (644758)	14
D72577 (644759)	13
D72578 (644760)	13
D72579 (644761)	10
D72580 (644762)	11
D72581 (644763)	12
D72582 (644764)	15
D72583 (644765)	10

Comments: RDL - Reported Detection Limit

644741-644765 As, Sb values may be low due to digestion losses.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 22, 2019

DATE RECEIVED: Oct 23, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Unit:	RDL:
Au	ppm	0.001
Sample ID (AGAT ID)		
D72559 (644741)		0.004
D72560 (644742)		0.010
D72561 (644743)		0.004
D72562 (644744)		0.003
D72563 (644745)		0.004
D72564 (644746)		0.005
D72565 (644747)		0.003
D72566 (644748)		0.526
D72567 (644749)		0.004
D72568 (644750)		0.002
D72569 (644751)		0.004
D72570 (644752)		0.005
D72571 (644753)		0.007
D72572 (644754)		0.001
D72573 (644755)		0.010
D72574 (644756)		0.011
D72575 (644757)		0.015
D72576 (644758)		0.011
D72577 (644759)		0.007
D72578 (644760)		0.007
D72579 (644761)		0.017
D72580 (644762)		0.008
D72581 (644763)		0.004
D72582 (644764)		0.006
D72583 (644765)		0.005

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 22, 2019	DATE RECEIVED: Oct 23, 2019	DATE REPORTED: Nov 06, 2019	SAMPLE TYPE: Drill Core
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Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D72559 (644741)		90
D72576 (644758)		80

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B534537

PROJECT: AGAT00836

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 22, 2019

DATE RECEIVED: Oct 23, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D72559 (644741)	96

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	644741	< 0.5	0.5		644756	< 0.5	< 0.5	0.0%				
Al	644741	8.25	8.32	0.8%	644756	7.08	7.11	0.4%				
As	644741	< 1	< 1	0.0%	644756	< 1	< 1	0.0%				
Ba	644741	329	329	0.0%	644756	247	236	4.6%				
Be	644741	1.59	1.68	5.5%	644756	1.2	1.2	0.0%				
Bi	644741	< 1	< 1	0.0%	644756	< 1	< 1	0.0%				
Ca	644741	5.80	5.82	0.3%	644756	6.91	6.82	1.3%				
Cd	644741	< 0.5	< 0.5	0.0%	644756	< 0.5	< 0.5	0.0%				
Ce	644741	47	48	2.1%	644756	9	9	0.0%				
Co	644741	27.3	28.0	2.5%	644756	42.6	43.0	0.9%				
Cr	644741	120	121	0.8%	644756	164	171	4.2%				
Cu	644741	53.9	53.5	0.7%	644756	101	99.3	1.7%				
Fe	644741	6.57	6.64	1.1%	644756	9.01	8.90	1.2%				
Ga	644741	21	19	10.0%	644756	17	18	5.7%				
In	644741	< 1	< 1	0.0%	644756	< 1	< 1	0.0%				
K	644741	0.931	0.923	0.9%	644756	0.72	0.72	0.0%				
La	644741	21	20	4.9%	644756	3	3	0.0%				
Li	644741	14	14	0.0%	644756	16	16	0.0%				
Mg	644741	2.58	2.63	1.9%	644756	2.93	2.91	0.7%				
Mn	644741	1080	1100	1.8%	644756	1440	1430	0.7%				
Mo	644741	5.27	4.90	7.3%	644756	4.5	4.2	6.9%				
Na	644741	2.41	2.38	1.3%	644756	2.67	2.69	0.7%				
Ni	644741	58.0	58.2	0.3%	644756	104	104	0.0%				
P	644741	773	780	0.9%	644756	267	276	3.3%				
Pb	644741	< 20	< 20	0.0%	644756	< 20	< 20	0.0%				
Rb	644741	< 50	< 50	0.0%	644756	< 50	< 50	0.0%				
S	644741	0.075	0.075	0.0%	644756	0.77	0.75	2.6%				
Sb	644741	< 1	< 1	0.0%	644756	< 1	< 1	0.0%				
Sc	644741	26	26	0.0%	644756	39	40	2.5%				
Se	644741	< 10	< 10	0.0%	644756	< 10	< 10	0.0%				
Sn	644741	< 5	< 5	0.0%	644756	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	644741	326	322	1.2%	644756	325	327	0.6%									
Ta	644741	< 10	< 10	0.0%	644756	< 10	< 10	0.0%									
Te	644741	< 10	< 10	0.0%	644756	< 10	< 10	0.0%									
Th	644741	< 5	< 5	0.0%	644756	< 5	< 5	0.0%									
Ti	644741	0.53	0.53	0.0%	644756	0.55	0.55	0.0%									
Tl	644741	< 5	< 5	0.0%	644756	< 5	< 5	0.0%									
U	644741	< 50	< 50	0.0%	644756	< 50	< 50	0.0%									
V	644741	203	208	2.4%	644756	285	289	1.4%									
W	644741	< 1	< 1	0.0%	644756	< 1	< 1	0.0%									
Y	644741	22	22	0.0%	644756	19	20	5.1%									
Zn	644741	70.9	71.1	0.3%	644756	85.2	79.9	6.4%									
Zr	644741	148	149	0.7%	644756	18	19	5.4%									

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2												
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	644741	0.004	0.004	1.9%	644756	0.011	0.011	0.0%									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WMG-1a)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.96	100%	90% - 110%	4.75	4.73	100%	90% - 110%								
Ba	340	325	96%	90% - 110%	216	206	95%	90% - 110%								
Be	2.6	2.8	106%	90% - 110%												
Ca	5.72	5.64	99%	90% - 110%	10	10	96%	90% - 110%								
Ce	122	119	97%	90% - 110%												
Co					191	174	91%	90% - 110%								
Cr	12	9	78%	90% - 110%	670	738	110%	90% - 110%								
Cu					7120	6959	98%	90% - 110%								
Fe	4.34	4.28	99%	90% - 110%	12.71	12.29	97%	90% - 110%								
Ga	35	35	99%	90% - 110%												
K	1.37	1.42	104%	90% - 110%	0.1021	0.1049	103%	90% - 110%								
La	58	54	92%	90% - 110%	8.47	8.16	96%	90% - 110%								
Li	37	39	106%	90% - 110%												
Mg	0.325	0.299	92%	90% - 110%	7.41	7.38	100%	90% - 110%								
Na	5.267	5.393	102%	90% - 110%	0.112	0.117	105%	90% - 110%								
Ni					2480	2293	92%	90% - 110%								
P					731	730	100%	90% - 110%								
Rb	55	60	110%	90% - 110%												
Sc	1.1	1.1	98%	90% - 110%	21.33	21.65	101%	90% - 110%								
Sr	1191	1209	101%	90% - 110%	39	39	99%	90% - 110%								
Ti	0.172	0.163	95%	90% - 110%	0.419	0.385	92%	90% - 110%								
V	8	8	99%	90% - 110%	158	171	108%	90% - 110%								
Y	119	122	103%	90% - 110%	12.67	13.07	103%	90% - 110%								
Zn	93	92	99%	90% - 110%	112	102	91%	90% - 110%								
Zr					35.7	36.9	103%	90% - 110%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.68	96%	90% - 110%	6.56	6.87	105%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00836  
 SAMPLING SITE:

AGAT WORK ORDER: 19B534537  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE





CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00837

AGAT WORK ORDER: 19B535200

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 06, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Oct 23, 2019      DATE RECEIVED: Oct 24, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72584 (648828)		2.02
D72585 (648829)		2.24
D72586 (648830)		.09
D72587 (648831)		2.23
D72588 (648832)		3.07
D72589 (648833)		1.65
D72590 (648834)		3.16
D72591 (648835)		2.22
D72592 (648836)		.64
D72593 (648837)		2.67
D72594 (648838)		3.50
D72595 (648839)		2.10
D72596 (648840)		.92
D72597 (648841)		2.96
D72598 (648842)		2.96
D72599 (648843)		3.06
D72600 (648844)		3.10
D72601 (648845)		2.23
D72602 (648846)		3.44
D72603 (648847)		3.22
D72604 (648848)		1.94

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 23, 2019

DATE RECEIVED: Oct 24, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Ag ppm 0.5	Al % 0.01	As ppm 1	Ba ppm 1	Be ppm 0.5	Bi ppm 1	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Co ppm 0.5	Cr ppm 0.5	Cu ppm 0.5	Fe % 0.01	Ga ppm 5
D72584 (648828)		<0.5	7.14	<1	228	0.6	<1	5.68	<0.5	19	28.7	40.5	47.1	11.1	23
D72585 (648829)		<0.5	6.55	<1	109	2.4	<1	6.12	<0.5	20	27.6	36.8	52.0	10.1	22
D72586 (648830)		<0.5	7.24	<1	183	0.6	<1	6.45	<0.5	21	38.5	185	99.0	7.82	20
D72587 (648831)		<0.5	7.19	<1	43	0.6	<1	4.49	<0.5	21	29.1	36.1	53.8	12.1	24
D72588 (648832)		<0.5	7.16	<1	57	0.5	<1	4.46	<0.5	19	29.2	35.2	43.2	11.9	24
D72589 (648833)		<0.5	7.26	<1	184	0.5	<1	5.54	<0.5	19	30.7	44.6	30.0	11.8	24
D72590 (648834)		<0.5	7.38	<1	128	<0.5	<1	6.33	0.6	12	38.1	77.7	65.3	9.49	18
D72591 (648835)		<0.5	7.40	<1	131	0.6	<1	6.76	<0.5	12	40.0	80.9	87.4	8.96	19
D72592 (648836)		<0.5	0.09	<1	22	<0.5	<1	32.0	<0.5	<1	<0.5	6.2	2.0	0.15	<5
D72593 (648837)		<0.5	7.43	<1	87	<0.5	<1	6.87	<0.5	11	41.4	84.6	87.6	9.30	19
D72594 (648838)		<0.5	7.37	<1	174	<0.5	<1	6.75	<0.5	11	41.3	84.3	111	9.50	20
D72595 (648839)		<0.5	7.54	<1	121	0.5	<1	6.30	<0.5	12	41.4	88.3	99.1	9.79	20
D72596 (648840)		<0.5	4.92	<1	137	0.7	<1	4.95	<0.5	8	26.5	86.6	91.0	7.19	13
D72597 (648841)		<0.5	7.25	<1	86	<0.5	<1	6.80	<0.5	11	39.4	98.6	90.3	10.3	20
D72598 (648842)		<0.5	7.42	<1	80	<0.5	<1	6.95	<0.5	11	39.8	89.5	77.0	10.2	21
D72599 (648843)		<0.5	7.36	<1	40	0.6	<1	6.74	<0.5	12	39.8	93.9	113	10.4	20
D72600 (648844)		<0.5	7.33	<1	139	1.2	<1	7.32	<0.5	10	40.9	87.0	77.6	9.79	20
D72601 (648845)		<0.5	6.83	<1	59	0.6	<1	6.57	0.5	10	37.0	71.2	74.9	8.99	18
D72602 (648846)		<0.5	7.48	<1	42	0.6	<1	7.43	<0.5	11	39.0	77.1	82.1	10.0	20
D72603 (648847)		<0.5	7.28	<1	32	<0.5	<1	6.52	<0.5	11	41.5	85.3	52.2	9.78	21
D72604 (648848)		<0.5	6.97	<1	28	<0.5	<1	7.32	<0.5	11	39.4	100	68.8	9.32	19

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 23, 2019

DATE RECEIVED: Oct 24, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1
D72584 (648828)		<1	0.46	6	17	2.09	1880	5.4	2.08	23.0	1100	<20	<50	0.14	<1
D72585 (648829)		<1	0.31	7	22	2.09	1690	3.5	2.36	23.1	1030	<20	<50	0.15	<1
D72586 (648830)		<1	0.42	9	10	4.20	1290	2.0	2.30	112	943	<20	<50	0.10	<1
D72587 (648831)		<1	0.12	6	13	2.56	1690	3.2	2.44	22.0	1150	<20	<50	0.11	<1
D72588 (648832)		<1	0.13	6	12	2.17	1720	3.4	2.50	21.8	1160	<20	<50	0.13	<1
D72589 (648833)		<1	0.15	6	17	2.35	1880	4.1	1.80	29.3	974	<20	<50	0.11	<1
D72590 (648834)		<1	0.27	4	21	3.33	1770	4.1	1.73	67.3	437	<20	<50	0.14	<1
D72591 (648835)		<1	0.39	4	23	3.45	1610	3.3	1.83	70.8	424	<20	<50	0.13	<1
D72592 (648836)		<1	0.02	<2	2	1.66	97	1.5	0.04	1.1	71	<20	<50	0.05	<1
D72593 (648837)		<1	0.28	4	18	3.01	1690	3.0	1.81	75.2	394	<20	<50	0.11	<1
D72594 (648838)		<1	0.42	4	21	3.03	1640	2.8	1.46	71.0	438	<20	<50	0.15	<1
D72595 (648839)		<1	0.31	4	20	3.10	1560	3.5	1.74	72.8	448	<20	<50	0.11	<1
D72596 (648840)		<1	0.18	2	15	2.00	1150	6.1	1.06	47.7	282	<20	<50	0.14	<1
D72597 (648841)		<1	0.20	4	17	3.23	1510	3.6	1.68	66.5	449	<20	<50	0.12	<1
D72598 (648842)		<1	0.20	4	18	3.24	1460	3.4	1.76	67.6	461	<20	<50	0.11	<1
D72599 (648843)		<1	0.21	3	15	3.31	1620	3.1	2.13	74.4	432	<20	<50	0.16	<1
D72600 (648844)		<1	0.41	4	17	3.03	1560	4.1	1.68	75.5	452	<20	<50	0.11	<1
D72601 (648845)		<1	0.18	3	17	2.94	1420	2.8	1.68	67.6	386	<20	<50	0.11	<1
D72602 (648846)		<1	0.15	4	16	3.08	1560	3.8	1.91	73.8	420	<20	<50	0.13	<1
D72603 (648847)		<1	0.12	3	16	3.45	1500	2.9	2.19	76.6	405	<20	<50	0.07	<1
D72604 (648848)		<1	0.13	3	13	2.93	1470	4.1	1.77	71.2	410	<20	<50	0.12	<1

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 23, 2019

DATE RECEIVED: Oct 24, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5
D72584 (648828)	38	<10	<5	161	<10	<10	<5	0.99	<5	<50	169	<1	39	136
D72585 (648829)	34	<10	<5	196	<10	<10	<5	0.81	<5	<50	163	<1	34	137
D72586 (648830)	34	<10	<5	246	<10	<10	<5	0.81	<5	<50	244	<1	22	86.2
D72587 (648831)	39	<10	<5	194	<10	<10	<5	1.02	<5	<50	173	<1	41	116
D72588 (648832)	38	<10	<5	225	<10	<10	<5	0.98	<5	<50	172	<1	40	135
D72589 (648833)	41	<10	<5	141	<10	<10	<5	0.95	<5	<50	197	<1	40	137
D72590 (648834)	44	<10	<5	122	<10	<10	<5	0.68	<5	<50	305	<1	31	134
D72591 (648835)	46	<10	<5	145	<10	<10	<5	0.68	<5	<50	317	<1	30	105
D72592 (648836)	1	<10	<5	78	<10	<10	<5	<0.01	<5	<50	1.9	<1	2	4.2
D72593 (648837)	47	<10	<5	146	<10	<10	<5	0.68	<5	<50	324	<1	31	95.3
D72594 (648838)	46	<10	<5	134	<10	<10	<5	0.69	<5	<50	329	<1	30	98.7
D72595 (648839)	49	<10	<5	139	<10	<10	<5	0.73	<5	<50	347	<1	31	95.8
D72596 (648840)	31	<10	<5	91	<10	<10	<5	0.45	<5	<50	212	<1	21	63.9
D72597 (648841)	46	<10	<5	106	<10	<10	<5	0.72	<5	<50	328	<1	30	101
D72598 (648842)	47	<10	<5	111	<10	<10	<5	0.73	<5	<50	335	<1	30	105
D72599 (648843)	46	<10	<5	132	<10	<10	<5	0.71	<5	<50	330	<1	31	102
D72600 (648844)	47	<10	<5	117	<10	<10	<5	0.69	<5	<50	333	<1	30	95.7
D72601 (648845)	43	<10	<5	115	<10	<10	<5	0.64	<5	<50	301	<1	27	91.4
D72602 (648846)	46	<10	<5	137	<10	<10	<5	0.70	<5	<50	324	<1	29	108
D72603 (648847)	46	<10	<5	118	<10	<10	<5	0.68	<5	<50	330	<1	29	92.7
D72604 (648848)	44	<10	<5	123	<10	<10	<5	0.66	<5	<50	312	<1	28	90.6

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Oct 23, 2019      DATE RECEIVED: Oct 24, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
D72584 (648828)				26
D72585 (648829)				37
D72586 (648830)				90
D72587 (648831)				25
D72588 (648832)				20
D72589 (648833)				20
D72590 (648834)				18
D72591 (648835)				21
D72592 (648836)				<5
D72593 (648837)				19
D72594 (648838)				16
D72595 (648839)				17
D72596 (648840)				13
D72597 (648841)				18
D72598 (648842)				17
D72599 (648843)				20
D72600 (648844)				18
D72601 (648845)				14
D72602 (648846)				15
D72603 (648847)				19
D72604 (648848)				11

Comments: RDL - Reported Detection Limit  
 648828-648848 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Oct 23, 2019      DATE RECEIVED: Oct 24, 2019      DATE REPORTED: Nov 06, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
D72584 (648828)			0.002
D72585 (648829)			0.001
D72586 (648830)			0.33
D72587 (648831)			0.002
D72588 (648832)			0.002
D72589 (648833)			0.002
D72590 (648834)			0.003
D72591 (648835)			0.002
D72592 (648836)			0.001
D72593 (648837)			0.002
D72594 (648838)			0.003
D72595 (648839)			0.003
D72596 (648840)			0.003
D72597 (648841)			0.004
D72598 (648842)			0.001
D72599 (648843)			0.002
D72600 (648844)			0.002
D72601 (648845)			0.002
D72602 (648846)			0.002
D72603 (648847)			0.002
D72604 (648848)			0.009

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Oct 23, 2019

DATE RECEIVED: Oct 24, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
D72584 (648828)	78
D72602 (648846)	75

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





# Certificate of Analysis

AGAT WORK ORDER: 19B535200

PROJECT: AGAT00837

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Oct 23, 2019

DATE RECEIVED: Oct 24, 2019

DATE REPORTED: Nov 06, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
D72584 (648828)	94

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	648828	< 0.5	< 0.5	0.0%	648843	< 0.5	< 0.5	0.0%								
Al	648828	7.14	7.07	1.0%	648843	7.36	7.43	0.9%								
As	648828	< 1	< 1	0.0%	648843	< 1	< 1	0.0%								
Ba	648828	228	216	5.4%	648843	40	41	2.5%								
Be	648828	0.63	0.69	9.1%	648843	0.6	0.6	0.0%								
Bi	648828	< 1	< 1	0.0%	648843	< 1	< 1	0.0%								
Ca	648828	5.68	5.57	2.0%	648843	6.74	6.84	1.5%								
Cd	648828	< 0.5	< 0.5	0.0%	648843	< 0.5	< 0.5	0.0%								
Ce	648828	19	21	10.0%	648843	12	12	0.0%								
Co	648828	28.7	29.9	4.1%	648843	39.8	41.3	3.7%								
Cr	648828	40.5	42.1	3.9%	648843	93.9	94.0	0.1%								
Cu	648828	47.1	47.8	1.5%	648843	113	117	3.5%								
Fe	648828	11.1	10.8	2.7%	648843	10.4	10.6	1.9%								
Ga	648828	23	23	0.0%	648843	20	21	4.9%								
In	648828	< 1	< 1	0.0%	648843	< 1	< 1	0.0%								
K	648828	0.456	0.427	6.6%	648843	0.21	0.21	0.0%								
La	648828	6	7	15.4%	648843	3	4	28.6%								
Li	648828	17	16	6.1%	648843	15	16	6.5%								
Mg	648828	2.09	2.14	2.4%	648843	3.31	3.34	0.9%								
Mn	648828	1880	1880	0.0%	648843	1620	1640	1.2%								
Mo	648828	5.4	5.9	8.8%	648843	3.1	3.4	9.2%								
Na	648828	2.08	2.05	1.5%	648843	2.13	2.18	2.3%								
Ni	648828	23.0	23.2	0.9%	648843	74.4	75.9	2.0%								
P	648828	1100	1140	3.6%	648843	432	429	0.7%								
Pb	648828	< 20	< 20	0.0%	648843	< 20	< 20	0.0%								
Rb	648828	< 50	< 50	0.0%	648843	< 50	< 50	0.0%								
S	648828	0.143	0.146	2.1%	648843	0.162	0.168	3.6%								
Sb	648828	< 1	< 1	0.0%	648843	< 1	< 1	0.0%								
Sc	648828	38	38	0.0%	648843	46	47	2.2%								
Se	648828	< 10	< 10	0.0%	648843	< 10	< 10	0.0%								
Sn	648828	< 5	< 5	0.0%	648843	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	648828	161	159	1.3%	648843	132	133	0.8%											
Ta	648828	< 10	< 10	0.0%	648843	< 10	< 10	0.0%											
Te	648828	< 10	< 10	0.0%	648843	< 10	< 10	0.0%											
Th	648828	< 5	< 5	0.0%	648843	< 5	< 5	0.0%											
Ti	648828	0.987	0.958	3.0%	648843	0.711	0.729	2.5%											
Tl	648828	< 5	< 5	0.0%	648843	< 5	< 5	0.0%											
U	648828	< 50	< 50	0.0%	648843	< 50	< 50	0.0%											
V	648828	169	172	1.8%	648843	330	332	0.6%											
W	648828	< 1	< 1	0.0%	648843	< 1	< 1	0.0%											
Y	648828	39	40	2.5%	648843	31	31	0.0%											
Zn	648828	136	139	2.2%	648843	102	103	1.0%											
Zr	648828	26	29	10.9%	648843	20	20	0.0%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2																
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD													
Au	648828	0.002	0.002	0.0%	648843	0.002	0.002	0.0%													



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.6	97%	90% - 110%												
Ba	340	320	94%	90% - 110%												
Be	2.6	2.7	103%	90% - 110%												
Ca	5.72	5.7	100%	90% - 110%												
Ce	122	120	98%	90% - 110%												
Fe	4.34	4.22	97%	90% - 110%												
Ga	35	34	96%	90% - 110%												
K	1.37	1.38	101%	90% - 110%												
La	58	53	92%	90% - 110%												
Li	37	38	102%	90% - 110%												
Mg	0.325	0.291	90%	90% - 110%												
Na	5.267	5.307	101%	90% - 110%												
Rb	55	63	114%	90% - 110%												
Sc	1.1	1.1	97%	90% - 110%												
Sr	1191	1203	101%	90% - 110%												
Ti	0.172	0.159	92%	90% - 110%												
V	8	8	97%	90% - 110%												
Y	119	123	103%	90% - 110%												
Zn	93	91	98%	90% - 110%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.66	95%	90% - 110%	6.56	6.18	94%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00837  
 SAMPLING SITE:

AGAT WORK ORDER: 19B535200  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00848

AGAT WORK ORDER: 19B539132

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 19, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Nov 01, 2019      DATE RECEIVED: Nov 02, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72605 (677240)		2.72
D72606 (677241)		0.10
D72607 (677242)		6.35
D72608 (677243)		2.35
D72609 (677244)		2.42
D72610 (677245)		2.56
D72611 (677246)		1.42
D72612 (677247)		0.7
D72613 (677248)		2.28
D72614 (677249)		2.69
D72615 (677250)		1.69
D72616 (677251)		2.97
D72617 (677252)		2.40
D72618 (677253)		2.40
D72619 (677254)		1.87
D72620 (677255)		2.22
D72621 (677256)		2.47
D72622 (677257)		2.33
D72623 (677258)		2.17
D72624 (677259)		2.34
D72625 (677260)		2.44
D72626 (677261)		0.09
D72627 (677262)		1.24
D72628 (677263)		2.50
D72629 (677264)		2.37
D72630 (677265)		1.28

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2019	DATE RECEIVED: Nov 02, 2019							DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core		
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72605 (677240)	<0.5	8.25	<1	469	0.8	<1	3.77	<0.5	45	24.1	91.5	63.2	5.15	19	
D72606 (677241)	<0.5	7.44	<1	184	0.5	<1	6.36	<0.5	20	36.6	167	101	7.79	17	
D72607 (677242)	<0.5	7.22	<1	167	0.5	<1	8.33	<0.5	4	41.8	216	89.1	6.98	11	
D72608 (677243)	<0.5	6.98	<1	33	2.5	<1	8.45	<0.5	3	42.0	236	102	6.84	13	
D72609 (677244)	<0.5	7.30	<1	31	0.9	<1	8.66	<0.5	4	44.3	251	71.5	7.41	12	
D72610 (677245)	<0.5	7.18	<1	26	0.6	<1	9.04	<0.5	4	39.5	248	67.4	6.87	11	
D72611 (677246)	<0.5	6.81	<1	55	3.1	<1	8.73	<0.5	4	38.5	212	92.1	6.52	12	
D72612 (677247)	<0.5	0.07	<1	28	<0.5	<1	32.6	<0.5	<1	<0.5	7.8	<0.5	0.12	<5	
D72613 (677248)	<0.5	7.29	<1	35	<0.5	<1	6.99	<0.5	4	41.4	230	115	7.06	13	
D72614 (677249)	<0.5	7.60	<1	53	<0.5	<1	7.19	<0.5	4	40.7	194	80.9	7.70	13	
D72615 (677250)	<0.5	7.11	<1	46	0.9	<1	7.95	0.6	4	40.3	215	74.4	8.48	12	
D72616 (677251)	<0.5	7.22	<1	22	0.5	<1	8.19	<0.5	4	41.5	252	39.6	7.46	11	
D72617 (677252)	<0.5	7.46	<1	15	<0.5	<1	8.96	<0.5	4	45.1	287	75.0	7.49	13	
D72618 (677253)	<0.5	7.62	<1	16	<0.5	<1	9.34	<0.5	4	43.6	274	78.2	7.85	12	
D72619 (677254)	<0.5	7.35	<1	19	<0.5	<1	8.44	<0.5	4	41.7	222	102	7.27	12	
D72620 (677255)	<0.5	7.66	<1	35	<0.5	<1	9.10	<0.5	4	45.4	228	132	7.57	14	
D72621 (677256)	<0.5	7.41	<1	16	<0.5	<1	7.92	<0.5	4	43.9	284	98.0	7.48	13	
D72622 (677257)	<0.5	7.07	<1	17	<0.5	<1	8.54	<0.5	3	41.3	235	85.7	7.02	12	
D72623 (677258)	<0.5	7.45	<1	16	<0.5	<1	8.48	<0.5	4	41.2	235	63.2	7.38	12	
D72624 (677259)	<0.5	7.39	<1	23	<0.5	<1	8.88	<0.5	4	43.7	249	76.1	7.35	13	
D72625 (677260)	<0.5	7.50	<1	27	<0.5	<1	8.84	<0.5	4	41.2	211	99.8	7.31	11	
D72626 (677261)	<0.5	7.20	<1	139	<0.5	<1	6.81	<0.5	9	37.8	172	148	8.09	14	
D72627 (677262)	<0.5	7.40	<1	53	0.9	<1	7.26	<0.5	4	41.0	176	69.2	7.35	13	
D72628 (677263)	<0.5	4.50	<1	24	<0.5	<1	5.06	<0.5	2	29.2	221	14.2	4.78	7	
D72629 (677264)	<0.5	7.36	<1	21	<0.5	<1	8.99	<0.5	4	42.7	250	91.4	7.49	11	
D72630 (677265)	<0.5	7.23	<1	19	<0.5	<1	8.93	<0.5	4	42.7	260	56.4	8.00	12	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2019	DATE RECEIVED: Nov 02, 2019					DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D72605 (677240)	<1	1.12	24	12	1.94	868	5.8	3.01	57.2	499	<20	<50	0.11	<1	
D72606 (677241)	<1	0.45	9	11	4.39	1300	2.2	2.45	105	876	<20	<50	0.10	<1	
D72607 (677242)	<1	0.21	<2	11	4.98	1350	3.9	1.35	114	168	<20	<50	0.08	<1	
D72608 (677243)	<1	0.22	<2	15	4.73	1310	2.6	1.60	106	160	<20	<50	0.09	<1	
D72609 (677244)	<1	0.15	<2	13	5.16	1410	2.0	1.51	114	174	<20	<50	0.07	<1	
D72610 (677245)	<1	0.14	<2	9	4.63	1400	2.4	1.50	102	173	<20	<50	0.08	<1	
D72611 (677246)	<1	0.40	<2	24	3.81	1120	1.7	3.44	91.9	132	<20	<50	0.12	<1	
D72612 (677247)	<1	0.02	<2	1	1.06	86	1.1	0.03	0.5	75	<20	<50	0.09	<1	
D72613 (677248)	<1	0.29	<2	8	4.91	1250	1.9	2.30	90.4	172	<20	<50	0.10	<1	
D72614 (677249)	<1	0.39	<2	12	5.15	1360	2.1	2.05	85.7	175	<20	<50	0.03	<1	
D72615 (677250)	<1	0.39	<2	23	4.96	1570	1.7	2.01	105	139	<20	<50	0.08	<1	
D72616 (677251)	<1	0.21	<2	17	5.06	1360	1.8	1.70	107	160	<20	<50	0.05	<1	
D72617 (677252)	<1	0.09	<2	12	4.98	1470	1.5	1.24	114	191	<20	<50	0.08	<1	
D72618 (677253)	<1	0.10	<2	12	5.05	1510	1.7	1.27	111	183	<20	<50	0.08	<1	
D72619 (677254)	<1	0.14	<2	19	4.83	1400	1.7	1.62	94.3	182	<20	<50	0.10	<1	
D72620 (677255)	<1	0.23	<2	14	4.85	1400	1.7	1.23	117	186	<20	<50	0.09	<1	
D72621 (677256)	<1	0.11	<2	10	5.13	1340	1.8	1.37	110	170	<20	<50	0.08	<1	
D72622 (677257)	<1	0.10	<2	12	4.83	1320	1.9	1.36	104	162	<20	<50	0.08	<1	
D72623 (677258)	<1	0.09	<2	11	4.99	1370	1.5	1.17	105	167	<20	<50	0.07	<1	
D72624 (677259)	<1	0.12	<2	10	4.94	1390	2.1	1.27	111	163	<20	<50	0.08	<1	
D72625 (677260)	<1	0.17	<2	12	4.74	1440	1.7	1.33	98.4	177	<20	<50	0.09	<1	
D72626 (677261)	<1	0.20	3	13	4.35	1350	1.9	2.42	82.6	414	<20	<50	0.16	<1	
D72627 (677262)	<1	0.29	<2	22	4.88	1210	2.0	2.18	87.1	195	<20	<50	0.08	<1	
D72628 (677263)	<1	0.14	<2	11	3.64	862	3.2	0.91	86.4	106	<20	<50	0.03	<1	
D72629 (677264)	<1	0.17	<2	13	5.00	1500	2.2	1.18	111	168	<20	<50	0.10	<1	
D72630 (677265)	<1	0.13	<2	11	5.35	1630	2.0	1.26	106	167	<20	<50	0.06	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2019	DATE RECEIVED: Nov 02, 2019					DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72605 (677240)	22	<10	<5	357	<10	<10	<5	0.43	<5	<50	165	<1	16	73.1	
D72606 (677241)	35	<10	<5	239	<10	<10	<5	0.85	<5	<50	251	<1	22	84.6	
D72607 (677242)	42	<10	<5	76	<10	<10	<5	0.35	<5	<50	240	<1	14	62.8	
D72608 (677243)	45	<10	<5	79	<10	<10	<5	0.36	<5	<50	247	<1	17	67.2	
D72609 (677244)	46	<10	<5	77	<10	<10	<5	0.38	<5	<50	255	<1	16	71.9	
D72610 (677245)	43	<10	<5	85	<10	<10	<5	0.36	<5	<50	243	<1	17	78.8	
D72611 (677246)	41	<10	<5	96	<10	<10	<5	0.33	<5	<50	225	<1	30	69.6	
D72612 (677247)	1	<10	<5	78	<10	<10	<5	<0.01	<5	<50	1.5	<1	2	4.2	
D72613 (677248)	45	<10	<5	75	<10	<10	<5	0.36	<5	<50	257	<1	16	71.5	
D72614 (677249)	45	<10	<5	81	<10	<10	<5	0.40	<5	<50	255	<1	15	64.3	
D72615 (677250)	43	<10	<5	103	<10	<10	<5	0.38	<5	<50	245	<1	23	118	
D72616 (677251)	44	<10	<5	99	<10	<10	<5	0.37	<5	<50	253	<1	19	71.0	
D72617 (677252)	45	<10	<5	79	<10	<10	<5	0.38	<5	<50	255	<1	14	68.9	
D72618 (677253)	45	<10	<5	80	<10	<10	<5	0.38	<5	<50	254	<1	14	72.6	
D72619 (677254)	45	<10	<5	74	<10	<10	<5	0.38	<5	<50	251	<1	14	67.7	
D72620 (677255)	46	<10	<5	78	<10	<10	<5	0.40	<5	<50	256	<1	15	66.8	
D72621 (677256)	47	<10	<5	87	<10	<10	<5	0.38	<5	<50	260	<1	15	63.9	
D72622 (677257)	43	<10	<5	72	<10	<10	<5	0.35	<5	<50	242	<1	14	65.3	
D72623 (677258)	44	<10	<5	83	<10	<10	<5	0.37	<5	<50	250	<1	14	65.8	
D72624 (677259)	44	<10	<5	74	<10	<10	<5	0.37	<5	<50	249	<1	14	68.6	
D72625 (677260)	43	<10	<5	76	<10	<10	<5	0.38	<5	<50	247	<1	14	63.1	
D72626 (677261)	46	<10	<5	109	<10	<10	<5	0.67	<5	<50	316	<1	22	74.8	
D72627 (677262)	44	<10	<5	103	<10	<10	<5	0.38	<5	<50	257	<1	19	59.2	
D72628 (677263)	28	<10	<5	49	<10	<10	<5	0.23	<5	<50	153	<1	9	43.4	
D72629 (677264)	44	<10	<5	81	<10	<10	<5	0.36	<5	<50	251	<1	14	63.5	
D72630 (677265)	45	<10	<5	69	<10	<10	<5	0.37	<5	<50	257	<1	15	69.6	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 01, 2019      DATE RECEIVED: Nov 02, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
D72605 (677240)				63
D72606 (677241)				93
D72607 (677242)				12
D72608 (677243)				36
D72609 (677244)				16
D72610 (677245)				14
D72611 (677246)				62
D72612 (677247)				<5
D72613 (677248)				14
D72614 (677249)				11
D72615 (677250)				27
D72616 (677251)				16
D72617 (677252)				9
D72618 (677253)				9
D72619 (677254)				10
D72620 (677255)				11
D72621 (677256)				11
D72622 (677257)				9
D72623 (677258)				9
D72624 (677259)				10
D72625 (677260)				9
D72626 (677261)				56
D72627 (677262)				44
D72628 (677263)				6
D72629 (677264)				9
D72630 (677265)				10

Comments: RDL - Reported Detection Limit  
 677240-677265 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 01, 2019      DATE RECEIVED: Nov 02, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
D72605 (677240)			0.007
D72606 (677241)			0.347
D72607 (677242)			0.013
D72608 (677243)			0.007
D72609 (677244)			0.026
D72610 (677245)			0.006
D72611 (677246)			0.008
D72612 (677247)			0.003
D72613 (677248)			0.008
D72614 (677249)			0.006
D72615 (677250)			0.004
D72616 (677251)			0.005
D72617 (677252)			0.005
D72618 (677253)			0.005
D72619 (677254)			0.007
D72620 (677255)			0.005
D72621 (677256)			0.004
D72622 (677257)			0.005
D72623 (677258)			0.007
D72624 (677259)			0.005
D72625 (677260)			0.110
D72626 (677261)			0.56
D72627 (677262)			0.018
D72628 (677263)			0.012
D72629 (677264)			0.008
D72630 (677265)			0.005

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

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 CANADA L4Z 1N9  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 01, 2019

DATE RECEIVED: Nov 02, 2019

DATE REPORTED: Nov 19, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D72605 (677240)	89
D72625 (677260)	84

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B539132

PROJECT: AGAT00848

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 01, 2019

DATE RECEIVED: Nov 02, 2019

DATE REPORTED: Nov 19, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
D72605 (677240)	99

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	677240	< 0.5	< 0.5	0.0%	677255	< 0.5	< 0.5	0.0%	677265	< 0.5	< 0.5	0.0%				
Al	677240	8.25	8.12	1.6%	677255	7.66	7.56	1.3%	677265	7.23	7.13	1.4%				
As	677240	< 1	< 1	0.0%	677255	< 1	< 1	0.0%	677265	< 1	< 1	0.0%				
Ba	677240	469	457	2.6%	677255	35	35	0.0%	677265	19	19	0.0%				
Be	677240	0.8	0.8	0.0%	677255	< 0.5	< 0.5	0.0%	677265	< 0.5	< 0.5	0.0%				
Bi	677240	< 1	< 1	0.0%	677255	< 1	< 1	0.0%	677265	< 1	< 1	0.0%				
Ca	677240	3.77	3.74	0.8%	677255	9.10	8.75	3.9%	677265	8.93	8.97	0.4%				
Cd	677240	< 0.5	< 0.5	0.0%	677255	< 0.5	< 0.5	0.0%	677265	< 0.5	< 0.5	0.0%				
Ce	677240	45	46	2.2%	677255	4	4	0.0%	677265	4	4	0.0%				
Co	677240	24.1	22.9	5.1%	677255	45.4	43.3	4.7%	677265	42.7	43.5	1.9%				
Cr	677240	91.5	90.3	1.3%	677255	228	232	1.7%	677265	260	224	14.9%				
Cu	677240	63.2	62.2	1.6%	677255	132	129	2.3%	677265	56.4	51.1	9.9%				
Fe	677240	5.15	5.14	0.2%	677255	7.57	7.43	1.9%	677265	8.00	8.02	0.2%				
Ga	677240	19	18	5.4%	677255	14	13	7.4%	677265	12	13	8.0%				
In	677240	< 1	< 1	0.0%	677255	< 1	< 1	0.0%	677265	< 1	< 1	0.0%				
K	677240	1.12	1.09	2.7%	677255	0.23	0.23	0.0%	677265	0.13	0.13	0.0%				
La	677240	24	23	4.3%	677255	< 2	< 2	0.0%	677265	< 2	< 2	0.0%				
Li	677240	12	12	0.0%	677255	14	14	0.0%	677265	11	11	0.0%				
Mg	677240	1.94	1.92	1.0%	677255	4.85	4.75	2.1%	677265	5.35	5.20	2.8%				
Mn	677240	868	856	1.4%	677255	1400	1370	2.2%	677265	1630	1590	2.5%				
Mo	677240	5.82	6.92	17.3%	677255	1.73	1.80	4.0%	677265	2.0	2.0	0.0%				
Na	677240	3.01	2.97	1.3%	677255	1.23	1.20	2.5%	677265	1.26	1.26	0.0%				
Ni	677240	57.2	53.4	6.9%	677255	117	113	3.5%	677265	106	107	0.9%				
P	677240	499	497	0.4%	677255	186	173	7.2%	677265	167	165	1.2%				
Pb	677240	< 20	< 20	0.0%	677255	< 20	< 20	0.0%	677265	< 20	< 20	0.0%				
Rb	677240	< 50	< 50	0.0%	677255	< 50	< 50	0.0%	677265	< 50	< 50	0.0%				
S	677240	0.11	0.11	0.0%	677255	0.09	0.09	0.0%	677265	0.06	0.06	0.0%				
Sb	677240	< 1	< 1	0.0%	677255	< 1	< 1	0.0%	677265	< 1	< 1	0.0%				
Sc	677240	22	21	4.7%	677255	46	46	0.0%	677265	45	44	2.2%				
Se	677240	< 10	< 10	0.0%	677255	< 10	< 10	0.0%	677265	< 10	< 10	0.0%				
Sn	677240	< 5	< 5	0.0%	677255	< 5	< 5	0.0%	677265	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	677240	357	355	0.6%	677255	78	77	1.3%	677265	69	69	0.0%				
Ta	677240	< 10	< 10	0.0%	677255	< 10	< 10	0.0%	677265	< 10	< 10	0.0%				
Te	677240	< 10	< 10	0.0%	677255	< 10	< 10	0.0%	677265	< 10	< 10	0.0%				
Th	677240	< 5	< 5	0.0%	677255	< 5	< 5	0.0%	677265	< 5	< 5	0.0%				
Ti	677240	0.425	0.418	1.7%	677255	0.40	0.39	2.5%	677265	0.37	0.37	0.0%				
Tl	677240	< 5	< 5	0.0%	677255	< 5	< 5	0.0%	677265	< 5	< 5	0.0%				
U	677240	< 50	< 50	0.0%	677255	< 50	< 50	0.0%	677265	< 50	< 50	0.0%				
V	677240	165	162	1.8%	677255	256	258	0.8%	677265	257	245	4.8%				
W	677240	< 1	< 1	0.0%	677255	< 1	< 1	0.0%	677265	< 1	< 1	0.0%				
Y	677240	16	16	0.0%	677255	15	15	0.0%	677265	15	14	6.9%				
Zn	677240	73.1	71.5	2.2%	677255	66.8	65.0	2.7%	677265	69.6	65.5	6.1%				
Zr	677240	63	63	0.0%	677255	11	10	9.5%	677265	10	10	0.0%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	677240	0.007	0.008	13.3%	677255	0.005	0.005	5.0%	677265	0.005	0.032	145.6%				





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.98	100%	90% - 110%	8.17	8.26	101%	90% - 110%							
As					26	20	77%	90% - 110%							
Ba	340	320	94%	90% - 110%	540	506	94%	90% - 110%							
Be	2.6	2.5	95%	90% - 110%	4.0	3.2	79%	90% - 110%							
Ca	5.72	5.48	96%	90% - 110%	0.907	0.89	98%	90% - 110%							
Ce	122	113	93%	90% - 110%	98	96	98%	90% - 110%							
Cr					60.3	62.9	104%	90% - 110%							
Cu					150	149	99%	90% - 110%							
Fe	4.34	4.12	95%	90% - 110%	3.77	3.7	98%	90% - 110%							
Ga	35	34	97%	90% - 110%											
K	1.37	1.47	107%	90% - 110%											
La	58	54	94%	90% - 110%	44	42	96%	90% - 110%							
Li	37	39	106%	90% - 110%	47	48	102%	90% - 110%							
Mg	0.325	0.303	93%	90% - 110%	1.10	1.09	99%	90% - 110%							
Mn					780	733	94%	90% - 110%							
Mo					14	14	103%	90% - 110%							
Na	5.267	5.688	108%	90% - 110%	1.624	1.784	110%	90% - 110%							
Ni					32	32	99%	90% - 110%							
P					750	748	100%	90% - 110%							
Pb					31	27	87%	90% - 110%							
Sc	1.1	1.1	100%	90% - 110%	12	13	106%	90% - 110%							
Sr	1191	1145	96%	90% - 110%	144	146	101%	90% - 110%							
Ti	0.172	0.169	98%	90% - 110%	0.53	0.48	91%	90% - 110%							
V	8	7	90%	90% - 110%	77	81	106%	90% - 110%							
Y	119	123	104%	90% - 110%											
Zn	93	88	95%	90% - 110%	130	121	93%	90% - 110%							

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	1.75	1.84	105%	90% - 110%	6.56	7.040	107%	90% - 110%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00848  
 SAMPLING SITE:

AGAT WORK ORDER: 19B539132  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00851

AGAT WORK ORDER: 19B540211

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 18, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 18, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72657 (686009)		2.58
D72658 (686010)		2.58
D72659 (686011)		2.17
D72660 (686012)		2.14
D72661 (686013)		2.61
D72662 (686014)		2.54
D72663 (686015)		2.58
D72664 (686016)		2.63
D72665 (686017)		2.54
D72666 (686018)		0.10
D72667 (686019)		2.52
D72668 (686020)		2.52
D72669 (686021)		2.38
D72670 (686022)		2.91
D72671 (686023)		2.33
D72672 (686024)		0.60
D72673 (686025)		2.77
D72674 (686026)		0.88
D72675 (686027)		2.26
D72676 (686028)		2.50
D72677 (686029)		2.43
D72678 (686030)		2.43
D72679 (686031)		2.55
D72680 (686032)		2.35
D72681 (686033)		2.47
D72682 (686034)		1.84

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019							DATE REPORTED: Nov 18, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72657 (686009)	<0.5	7.09	<1	22	<0.5	<1	7.22	<0.5	9	38.7	51.5	98.2	9.21	20	
D72658 (686010)	<0.5	6.91	<1	18	<0.5	<1	6.97	<0.5	10	39.1	48.6	99.5	8.90	19	
D72659 (686011)	<0.5	7.06	<1	37	0.8	<1	6.25	<0.5	10	43.4	40.6	149	9.71	20	
D72660 (686012)	<0.5	7.12	<1	44	0.6	<1	5.50	0.7	9	55.3	45.7	271	10.2	21	
D72661 (686013)	<0.5	7.16	<1	38	0.6	<1	6.52	<0.5	10	41.9	39.2	101	9.43	20	
D72662 (686014)	<0.5	7.14	<1	17	<0.5	<1	6.28	<0.5	10	44.0	41.7	96.0	9.38	21	
D72663 (686015)	<0.5	7.14	<1	55	<0.5	<1	5.82	<0.5	9	41.8	42.0	122	9.38	20	
D72664 (686016)	<0.5	6.99	<1	84	0.6	<1	5.96	<0.5	10	40.1	38.2	97.1	9.24	19	
D72665 (686017)	<0.5	6.96	<1	60	<0.5	<1	7.12	<0.5	9	40.4	38.4	86.0	9.02	20	
D72666 (686018)	<0.5	6.74	<1	131	<0.5	<1	6.67	0.6	10	38.8	177	150	7.54	18	
D72667 (686019)	<0.5	7.31	<1	39	<0.5	<1	7.19	<0.5	10	40.1	36.9	120	9.45	22	
D72668 (686020)	<0.5	7.61	<1	57	<0.5	<1	7.01	<0.5	10	47.1	40.0	151	9.85	20	
D72669 (686021)	<0.5	7.26	<1	104	<0.5	<1	7.96	<0.5	10	42.7	38.9	89.4	9.27	20	
D72670 (686022)	<0.5	7.13	<1	49	<0.5	<1	7.79	<0.5	9	41.2	42.3	87.0	9.31	19	
D72671 (686023)	<0.5	7.27	<1	25	<0.5	<1	6.38	<0.5	10	43.2	39.0	82.8	9.79	21	
D72672 (686024)	<0.5	0.10	<1	35	<0.5	<1	31.8	<0.5	<1	0.8	8.9	<0.5	0.16	<5	
D72673 (686025)	<0.5	7.34	<1	29	<0.5	<1	7.62	0.5	10	43.0	40.3	92.2	9.55	20	
D72674 (686026)	<0.5	6.16	<1	27	<0.5	<1	7.88	<0.5	7	35.6	45.2	151	8.02	16	
D72675 (686027)	<0.5	7.54	<1	45	<0.5	<1	8.27	<0.5	11	42.2	36.3	112	9.72	19	
D72676 (686028)	<0.5	7.48	<1	48	0.7	<1	7.46	<0.5	10	43.0	37.8	84.8	10.0	19	
D72677 (686029)	<0.5	7.12	<1	72	<0.5	<1	8.34	<0.5	10	40.5	33.6	100	8.95	20	
D72678 (686030)	<0.5	7.03	<1	69	<0.5	<1	8.10	<0.5	9	38.1	32.1	96.8	8.85	19	
D72679 (686031)	<0.5	6.97	<1	50	<0.5	<1	7.85	<0.5	10	38.1	34.8	99.6	8.33	19	
D72680 (686032)	<0.5	6.53	<1	47	<0.5	<1	8.85	<0.5	9	36.3	31.7	95.0	8.01	17	
D72681 (686033)	<0.5	7.14	<1	82	0.7	<1	8.00	<0.5	10	39.4	45.4	113	7.99	18	
D72682 (686034)	<0.5	7.81	<1	29	<0.5	<1	7.63	<0.5	8	46.5	65.3	121	8.42	18	

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## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019					DATE REPORTED: Nov 18, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D72657 (686009)	<1	0.30	3	14	3.27	1530	3.6	1.40	48.5	343	<20	<50	0.08	<1	
D72658 (686010)	<1	0.29	4	14	3.17	1470	4.4	1.39	49.4	359	<20	<50	0.08	<1	
D72659 (686011)	<1	0.25	3	29	3.25	1500	3.5	1.98	46.6	337	<20	<50	0.42	<1	
D72660 (686012)	<1	0.32	4	24	3.56	1350	3.6	2.00	56.5	337	<20	<50	0.51	<1	
D72661 (686013)	<1	0.33	4	28	3.45	1450	3.0	1.65	51.0	371	<20	<50	0.24	<1	
D72662 (686014)	<1	0.18	4	19	3.68	1400	3.2	1.81	58.9	378	<20	<50	0.09	<1	
D72663 (686015)	<1	0.34	4	22	3.58	1470	3.0	1.98	50.6	343	<20	<50	0.35	<1	
D72664 (686016)	<1	0.51	3	23	3.43	1480	3.0	2.13	46.4	357	<20	<50	0.35	<1	
D72665 (686017)	<1	0.32	3	14	3.08	1460	3.5	1.63	44.3	414	<20	<50	0.14	<1	
D72666 (686018)	<1	0.18	3	12	4.01	1300	1.4	2.21	92.2	401	<20	<50	0.16	<1	
D72667 (686019)	<1	0.20	4	14	3.20	1500	2.9	1.90	44.8	374	<20	<50	0.24	<1	
D72668 (686020)	<1	0.29	4	18	3.90	1570	3.0	1.76	74.7	396	<20	<50	0.26	<1	
D72669 (686021)	<1	0.25	4	18	3.25	1580	2.6	1.64	53.0	380	<20	<50	0.19	<1	
D72670 (686022)	<1	0.14	4	15	3.37	1570	2.9	1.47	47.0	370	<20	<50	0.16	<1	
D72671 (686023)	<1	0.12	4	16	3.82	1480	3.4	1.85	53.2	350	<20	<50	0.11	<1	
D72672 (686024)	<1	0.02	<2	1	1.62	123	0.8	0.04	0.5	72	<20	<50	0.03	<1	
D72673 (686025)	<1	0.15	4	13	3.27	1670	2.6	1.66	55.2	351	<20	<50	0.11	<1	
D72674 (686026)	<1	0.15	3	12	2.64	1580	4.2	1.10	44.0	328	<20	<50	0.29	<1	
D72675 (686027)	<1	0.14	4	13	3.40	1750	3.0	1.81	51.1	347	<20	<50	0.25	<1	
D72676 (686028)	<1	0.16	4	18	3.73	1810	2.9	1.81	56.2	430	<20	<50	0.11	<1	
D72677 (686029)	<1	0.17	4	12	3.01	1630	2.3	1.73	49.3	368	<20	<50	0.13	<1	
D72678 (686030)	<1	0.16	4	12	2.97	1600	2.9	1.69	46.4	353	<20	<50	0.11	<1	
D72679 (686031)	<1	0.14	3	12	2.77	1630	3.1	2.18	45.9	362	<20	<50	0.14	<1	
D72680 (686032)	<1	0.12	3	9	2.55	1820	2.7	1.94	43.6	347	<20	<50	0.15	<1	
D72681 (686033)	<1	0.16	4	14	2.80	1610	2.6	1.83	60.9	344	<20	<50	0.18	<1	
D72682 (686034)	<1	0.13	3	12	3.05	1870	2.9	1.75	85.1	306	<20	<50	0.17	<1	

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## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019					DATE REPORTED: Nov 18, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72657 (686009)	42	<10	<5	138	<10	<10	<5	0.68	<5	<50	342	<1	27	94.9	
D72658 (686010)	42	<10	<5	130	<10	<10	<5	0.67	<5	<50	336	<1	26	87.1	
D72659 (686011)	45	<10	<5	90	<10	<10	<5	0.70	<5	<50	367	<1	33	103	
D72660 (686012)	43	<10	<5	89	<10	<10	<5	0.67	<5	<50	353	<1	28	104	
D72661 (686013)	44	<10	<5	81	<10	<10	<5	0.70	<5	<50	364	<1	29	106	
D72662 (686014)	43	<10	<5	96	<10	<10	<5	0.72	<5	<50	349	<1	28	94.4	
D72663 (686015)	43	<10	<5	85	<10	<10	<5	0.68	<5	<50	349	<1	27	94.2	
D72664 (686016)	43	<10	<5	88	<10	<10	<5	0.72	<5	<50	353	<1	28	92.9	
D72665 (686017)	43	<10	<5	84	<10	<10	<5	0.72	<5	<50	353	<1	28	95.2	
D72666 (686018)	40	<10	<5	105	<10	<10	<5	0.66	<5	<50	307	<1	22	74.7	
D72667 (686019)	46	<10	<5	92	<10	<10	<5	0.76	<5	<50	388	<1	29	99.8	
D72668 (686020)	46	<10	<5	82	<10	<10	<5	0.75	<5	<50	388	<1	28	103	
D72669 (686021)	44	<10	<5	77	<10	<10	<5	0.73	<5	<50	360	<1	29	99.4	
D72670 (686022)	44	<10	<5	69	<10	<10	<5	0.76	<5	<50	371	<1	29	100	
D72671 (686023)	44	<10	<5	119	<10	<10	<5	0.76	<5	<50	365	<1	29	98.8	
D72672 (686024)	1	<10	<5	69	<10	<10	<5	<0.01	<5	<50	3.0	<1	2	2.7	
D72673 (686025)	45	<10	<5	104	<10	<10	<5	0.73	<5	<50	367	<1	28	101	
D72674 (686026)	37	<10	<5	97	<10	<10	<5	0.63	<5	<50	304	<1	24	85.4	
D72675 (686027)	48	<10	<5	100	<10	<10	<5	0.76	<5	<50	395	<1	31	102	
D72676 (686028)	47	<10	<5	97	<10	<10	<5	0.80	<5	<50	375	<1	31	107	
D72677 (686029)	44	<10	<5	100	<10	<10	<5	0.74	<5	<50	357	<1	28	99.4	
D72678 (686030)	42	<10	<5	99	<10	<10	<5	0.72	<5	<50	348	<1	27	96.0	
D72679 (686031)	43	<10	<5	77	<10	<10	<5	0.73	<5	<50	348	<1	27	96.5	
D72680 (686032)	39	<10	<5	72	<10	<10	<5	0.67	<5	<50	318	<1	26	104	
D72681 (686033)	41	<10	<5	75	<10	<10	<5	0.64	<5	<50	321	<1	27	97.5	
D72682 (686034)	46	<10	<5	107	<10	<10	<5	0.65	<5	<50	346	<1	25	91.9	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 18, 2019      SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
RDL:	5
Sample ID (AGAT ID)	
D72657 (686009)	12
D72658 (686010)	12
D72659 (686011)	20
D72660 (686012)	15
D72661 (686013)	20
D72662 (686014)	15
D72663 (686015)	15
D72664 (686016)	17
D72665 (686017)	12
D72666 (686018)	44
D72667 (686019)	12
D72668 (686020)	14
D72669 (686021)	14
D72670 (686022)	12
D72671 (686023)	15
D72672 (686024)	<5
D72673 (686025)	12
D72674 (686026)	10
D72675 (686027)	12
D72676 (686028)	16
D72677 (686029)	11
D72678 (686030)	11
D72679 (686031)	12
D72680 (686032)	11
D72681 (686033)	17
D72682 (686034)	10

Comments: RDL - Reported Detection Limit  
686009-686034 As, Sb values may be low due to digestion losses.  
Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 18, 2019      SAMPLE TYPE: Drill Core

Analyte:	Unit:	RDL:
Au	ppm	0.001
Sample ID (AGAT ID)		
D72657 (686009)		0.006
D72658 (686010)		0.005
D72659 (686011)		0.005
D72660 (686012)		0.054
D72661 (686013)		0.045
D72662 (686014)		0.003
D72663 (686015)		0.004
D72664 (686016)		0.004
D72665 (686017)		0.004
D72666 (686018)		0.527
D72667 (686019)		0.009
D72668 (686020)		0.003
D72669 (686021)		0.003
D72670 (686022)		0.002
D72671 (686023)		0.003
D72672 (686024)		0.005
D72673 (686025)		0.008
D72674 (686026)		0.004
D72675 (686027)		0.002
D72676 (686028)		0.002
D72677 (686029)		0.162
D72678 (686030)		0.004
D72679 (686031)		0.002
D72680 (686032)		0.003
D72681 (686033)		0.005
D72682 (686034)		0.003

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 18, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D72657 (686009)		83
D72677 (686029)		89

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B540211

PROJECT: AGAT00851

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 04, 2019

DATE RECEIVED: Nov 05, 2019

DATE REPORTED: Nov 18, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D72657 (686009)	93

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	686011	< 0.5	< 0.5	0.0%	686026	< 0.5	< 0.5	0.0%								
Al	686011	7.06	6.91	2.1%	686026	6.16	6.11	0.8%								
As	686011	< 1	< 1	0.0%	686026	< 1	< 1	0.0%								
Ba	686011	37	37	0.0%	686026	27	26	3.8%								
Be	686011	0.76	0.75	1.3%	686026	< 0.5	< 0.5	0.0%								
Bi	686011	< 1	< 1	0.0%	686026	< 1	< 1	0.0%								
Ca	686011	6.25	6.05	3.3%	686026	7.88	7.82	0.8%								
Cd	686011	< 0.5	< 0.5	0.0%	686026	< 0.5	< 0.5	0.0%								
Ce	686011	10	10	0.0%	686026	7	9	25.0%								
Co	686011	43.4	42.7	1.6%	686026	35.6	35.8	0.6%								
Cr	686011	40.6	39.5	2.7%	686026	45.2	42.9	5.2%								
Cu	686011	149	149	0.0%	686026	151	153	1.3%								
Fe	686011	9.71	9.61	1.0%	686026	8.02	7.82	2.5%								
Ga	686011	20	21	4.9%	686026	16	16	0.0%								
In	686011	< 1	< 1	0.0%	686026	< 1	< 1	0.0%								
K	686011	0.25	0.25	0.0%	686026	0.15	0.15	0.0%								
La	686011	3	3	0.0%	686026	3	3	0.0%								
Li	686011	29	29	0.0%	686026	12	12	0.0%								
Mg	686011	3.25	3.26	0.3%	686026	2.64	2.59	1.9%								
Mn	686011	1500	1430	4.8%	686026	1580	1540	2.6%								
Mo	686011	3.5	3.3	5.9%	686026	4.24	4.42	4.2%								
Na	686011	1.98	1.94	2.0%	686026	1.10	1.10	0.0%								
Ni	686011	46.6	44.7	4.2%	686026	44.0	45.2	2.7%								
P	686011	337	329	2.4%	686026	328	335	2.1%								
Pb	686011	< 20	< 20	0.0%	686026	< 20	< 20	0.0%								
Rb	686011	< 50	< 50	0.0%	686026	< 50	< 50	0.0%								
S	686011	0.42	0.44	4.7%	686026	0.286	0.283	1.1%								
Sb	686011	< 1	< 1	0.0%	686026	< 1	< 1	0.0%								
Sc	686011	45	45	0.0%	686026	37	38	2.7%								
Se	686011	< 10	< 10	0.0%	686026	< 10	< 10	0.0%								
Sn	686011	< 5	< 5	0.0%	686026	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	686011	90	88	2.2%	686026	97	96	1.0%									
Ta	686011	< 10	< 10	0.0%	686026	< 10	< 10	0.0%									
Te	686011	< 10	< 10	0.0%	686026	< 10	< 10	0.0%									
Th	686011	< 5	< 5	0.0%	686026	< 5	< 5	0.0%									
Ti	686011	0.699	0.680	2.8%	686026	0.631	0.637	0.9%									
Tl	686011	< 5	< 5	0.0%	686026	< 5	< 5	0.0%									
U	686011	< 50	< 50	0.0%	686026	< 50	< 50	0.0%									
V	686011	367	366	0.3%	686026	304	303	0.3%									
W	686011	< 1	< 1	0.0%	686026	< 1	< 1	0.0%									
Y	686011	33	33	0.0%	686026	24	24	0.0%									
Zn	686011	103	106	2.9%	686026	85.4	84.4	1.2%									
Zr	686011	20	19	5.1%	686026	10	10	0.0%									

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2												
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	686011	0.005	0.004	17.1%	686026	0.004	0.003	31.1%									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.5	96%	90% - 110%												
Ba	340	326	96%	90% - 110%												
Be	2.6	2.5	96%	90% - 110%												
Ca	5.72	5.49	96%	90% - 110%												
Ce	122	115	94%	90% - 110%												
Fe	4.34	3.97	92%	90% - 110%												
Ga	35	35	100%	90% - 110%												
K	1.37	1.35	99%	90% - 110%												
La	58	56	96%	90% - 110%												
Li	37	38	102%	90% - 110%												
Mg	0.325	0.301	93%	90% - 110%												
Na	5.267	5.371	102%	90% - 110%												
Ni	9	7	78%	90% - 110%												
Sc	1.1	1.2	109%	90% - 110%												
Sr	1191	1133	95%	90% - 110%												
Ti	0.172	0.17	99%	90% - 110%												
V	8	8	104%	90% - 110%												
Y	119	122	102%	90% - 110%												
Zn	93	88	95%	90% - 110%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.83	105%	90% - 110%	6.56	6.42	98%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00851  
 SAMPLING SITE:

AGAT WORK ORDER: 19B540211  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00852

AGAT WORK ORDER: 19B540212

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 20, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 20, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72631 (686100)		2.80
D72632 (686101)		.68
D72633 (686102)		2.23
D72634 (686103)		2.32
D72635 (686104)		2.28
D72636 (686105)		2.11
D72637 (686106)		1.21
D72638 (686107)		1.21
D72639 (686108)		1.46
D72640 (686109)		.60
D72641 (686110)		1.99
D72642 (686111)		2.11
D72643 (686112)		2.36
D72644 (686113)		1.24
D72645 (686114)		1.82
D72646 (686115)		.10
D72647 (686116)		2.53
D72648 (686117)		2.34
D72649 (686118)		3.08
D72650 (686119)		2.51
D72651 (686120)		1.03
D72652 (686121)		.70
D72653 (686122)		2.22
D72654 (686123)		2.44
D72655 (686124)		2.49
D72656 (686125)		2.14

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019							DATE REPORTED: Nov 20, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72631 (686100)	<0.5	3.91	<1	21	<0.5	<1	4.03	<0.5	3	83.3	1580	19.5	7.39	5	
D72632 (686101)	<0.5	0.15	<1	34	<0.5	<1	32.7	<0.5	<1	0.9	20.2	<0.5	0.18	<5	
D72633 (686102)	<0.5	3.49	<1	19	<0.5	<1	4.26	<0.5	2	80.2	1420	48.9	7.12	<5	
D72634 (686103)	<0.5	3.03	<1	12	<0.5	<1	4.33	<0.5	1	80.7	1390	29.3	6.25	<5	
D72635 (686104)	<0.5	2.77	<1	6	<0.5	<1	2.76	<0.5	<1	90.3	1690	23.2	6.44	<5	
D72636 (686105)	<0.5	2.61	<1	8	<0.5	<1	3.54	<0.5	2	91.8	1660	61.4	6.35	<5	
D72637 (686106)	<0.5	3.32	<1	14	<0.5	<1	3.90	<0.5	2	81.6	1680	32.2	6.83	<5	
D72638 (686107)	<0.5	3.37	<1	15	<0.5	<1	4.09	<0.5	2	83.2	1600	31.6	7.19	<5	
D72639 (686108)	<0.5	3.43	<1	21	<0.5	<1	4.37	<0.5	2	83.7	1780	50.4	6.99	<5	
D72640 (686109)	<0.5	3.20	<1	14	<0.5	<1	4.60	<0.5	2	83.0	1690	46.1	6.42	<5	
D72641 (686110)	<0.5	3.21	<1	21	<0.5	<1	5.85	<0.5	1	75.6	1470	59.6	6.46	<5	
D72642 (686111)	<0.5	2.92	<1	11	<0.5	<1	4.36	<0.5	1	82.0	1330	27.9	6.16	<5	
D72643 (686112)	<0.5	3.53	<1	8	<0.5	<1	3.93	<0.5	2	85.0	1650	44.0	7.15	<5	
D72644 (686113)	<0.5	4.08	<1	10	<0.5	<1	4.02	<0.5	2	81.4	1770	48.5	7.27	5	
D72645 (686114)	<0.5	4.27	<1	14	<0.5	<1	5.00	<0.5	4	79.4	1670	62.2	7.79	<5	
D72646 (686115)	<0.5	7.71	<1	190	0.7	<1	6.54	<0.5	22	39.1	227	112	8.05	22	
D72647 (686116)	<0.5	3.83	<1	10	<0.5	<1	4.49	<0.5	2	80.2	1660	42.9	7.01	<5	
D72648 (686117)	<0.5	4.97	<1	211	<0.5	<1	5.45	<0.5	7	67.9	1360	10.8	7.31	10	
D72649 (686118)	<0.5	4.42	<1	41	<0.5	<1	5.46	<0.5	4	74.7	1910	44.3	7.32	6	
D72650 (686119)	<0.5	4.61	<1	9	<0.5	<1	4.36	<0.5	2	81.1	1890	19.6	7.72	6	
D72651 (686120)	<0.5	4.95	<1	10	<0.5	<1	7.05	<0.5	6	69.1	1490	1.4	7.77	8	
D72652 (686121)	<0.5	0.10	<1	67	<0.5	<1	33.4	<0.5	<1	1.1	20.9	<0.5	0.18	<5	
D72653 (686122)	<0.5	7.61	<1	116	<0.5	<1	8.91	<0.5	4	46.1	373	98.4	7.92	15	
D72654 (686123)	<0.5	7.45	<1	73	<0.5	<1	7.66	<0.5	5	42.4	143	151	8.56	16	
D72655 (686124)	<0.5	7.69	<1	135	0.7	<1	6.54	<0.5	7	42.8	27.7	166	9.46	20	
D72656 (686125)	<0.5	7.75	<1	71	<0.5	<1	6.71	<0.5	7	44.4	27.6	132	9.48	19	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019					DATE REPORTED: Nov 20, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D72631 (686100)	<1	0.08	<2	9	16.8	1140	2.8	0.19	1140	121	<20	<50	0.03	<1	
D72632 (686101)	<1	0.05	2	1	1.91	116	1.5	0.07	6.7	67	<20	<50	0.06	<1	
D72633 (686102)	<1	0.07	<2	11	17.0	1160	2.2	0.16	1100	102	<20	<50	0.05	<1	
D72634 (686103)	<1	0.05	<2	8	17.6	1200	1.7	0.13	1330	69	<20	<50	0.05	<1	
D72635 (686104)	<1	0.02	<2	5	20.1	1020	2.0	0.07	1580	68	<20	<50	0.03	<1	
D72636 (686105)	<1	0.04	<2	5	20.5	1050	1.9	0.09	1660	56	<20	<50	0.07	<1	
D72637 (686106)	<1	0.07	<2	11	17.1	1160	2.1	0.15	1200	103	<20	<50	0.05	<1	
D72638 (686107)	<1	0.07	<2	12	17.9	1190	2.6	0.15	1220	94	<20	<50	0.05	<1	
D72639 (686108)	<1	0.07	<2	12	16.8	986	2.2	0.18	1240	56	<20	<50	0.06	<1	
D72640 (686109)	<1	0.06	<2	15	16.3	1100	2.2	0.24	1230	40	<20	<50	0.08	<1	
D72641 (686110)	<1	0.09	<2	12	16.0	1370	1.7	0.29	1090	79	<20	<50	0.11	<1	
D72642 (686111)	<1	0.07	<2	9	17.8	1130	1.5	0.18	1350	54	<20	<50	0.09	<1	
D72643 (686112)	<1	0.06	<2	8	17.6	1150	1.6	0.17	1240	90	<20	<50	0.08	<1	
D72644 (686113)	<1	0.07	<2	9	15.8	1030	2.0	0.25	1020	109	<20	<50	0.12	<1	
D72645 (686114)	<1	0.09	<2	8	15.3	1210	2.7	0.32	980	135	<20	<50	0.12	<1	
D72646 (686115)	<1	0.43	10	11	4.57	1340	2.2	2.40	114	898	<20	<50	0.10	<1	
D72647 (686116)	<1	0.07	<2	6	15.5	1240	1.9	0.28	1070	95	<20	<50	0.09	<1	
D72648 (686117)	<1	1.13	2	11	11.7	1290	2.7	0.71	682	95	<20	<50	0.02	<1	
D72649 (686118)	<1	0.20	<2	8	13.7	1270	2.1	0.47	863	141	<20	<50	0.06	<1	
D72650 (686119)	<1	0.06	<2	7	16.1	1140	1.9	0.26	931	119	<20	<50	0.04	<1	
D72651 (686120)	<1	0.25	2	8	11.6	1440	3.6	0.99	657	158	<20	<50	0.01	<1	
D72652 (686121)	<1	0.03	<2	1	1.53	119	1.5	0.03	5.8	95	<20	<50	0.06	<1	
D72653 (686122)	<1	0.44	<2	31	5.61	1350	3.6	1.31	143	193	<20	<50	0.05	<1	
D72654 (686123)	<1	0.27	2	25	4.80	1460	4.7	1.89	91.6	211	<20	<50	0.11	<1	
D72655 (686124)	<1	0.26	3	32	3.87	1540	3.8	2.14	52.5	272	<20	<50	0.14	<1	
D72656 (686125)	<1	0.18	3	25	4.56	1500	3.2	2.15	60.0	268	<20	<50	0.09	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019					DATE REPORTED: Nov 20, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72631 (686100)	27	<10	<5	66	<10	<10	<5	0.22	<5	<50	159	16	8	32.3	
D72632 (686101)	1	<10	<5	73	<10	<10	<5	<0.01	<5	<50	1.8	<1	2	4.0	
D72633 (686102)	24	<10	<5	70	<10	<10	<5	0.19	<5	<50	142	10	9	35.6	
D72634 (686103)	20	<10	<5	62	<10	<10	<5	0.15	<5	<50	118	13	6	35.9	
D72635 (686104)	18	<10	<5	36	<10	<10	<5	0.14	<5	<50	112	28	6	43.3	
D72636 (686105)	18	<10	<5	57	<10	<10	<5	0.14	<5	<50	107	31	6	37.9	
D72637 (686106)	22	<10	<5	56	<10	<10	<5	0.17	<5	<50	134	26	8	33.9	
D72638 (686107)	22	<10	<5	57	<10	<10	<5	0.17	<5	<50	134	13	8	36.5	
D72639 (686108)	24	<10	<5	62	<10	<10	<5	0.19	<5	<50	143	24	8	42.8	
D72640 (686109)	23	<10	<5	66	<10	<10	<5	0.17	<5	<50	137	28	7	52.6	
D72641 (686110)	22	<10	<5	98	<10	<10	<5	0.17	<5	<50	129	22	10	39.1	
D72642 (686111)	19	<10	<5	76	<10	<10	<5	0.15	<5	<50	114	15	8	41.3	
D72643 (686112)	24	<10	<5	39	<10	<10	<5	0.19	<5	<50	144	14	8	41.0	
D72644 (686113)	25	<10	<5	35	<10	<10	<5	0.21	<5	<50	153	20	9	39.2	
D72645 (686114)	28	<10	<5	37	<10	<10	<5	0.24	<5	<50	168	15	11	41.6	
D72646 (686115)	36	<10	<5	251	<10	<10	<5	0.85	<5	<50	255	<1	23	87.9	
D72647 (686116)	26	<10	<5	32	<10	<10	<5	0.21	<5	<50	152	23	9	39.9	
D72648 (686117)	28	<10	<5	22	<10	<10	<5	0.27	<5	<50	172	15	12	62.9	
D72649 (686118)	27	<10	<5	26	<10	<10	<5	0.24	<5	<50	164	30	11	51.8	
D72650 (686119)	29	<10	<5	24	<10	<10	<5	0.25	<5	<50	172	25	10	49.0	
D72651 (686120)	30	<10	<5	23	<10	<10	<5	0.28	<5	<50	178	8	13	65.7	
D72652 (686121)	1	<10	<5	76	<10	<10	<5	<0.01	<5	<50	2.6	<1	2	3.6	
D72653 (686122)	46	<10	<5	57	<10	<10	<5	0.39	<5	<50	260	<1	18	69.5	
D72654 (686123)	44	<10	<5	73	<10	<10	<5	0.46	<5	<50	270	<1	17	71.9	
D72655 (686124)	47	<10	<5	89	<10	<10	<5	0.56	<5	<50	319	<1	23	84.7	
D72656 (686125)	49	<10	<5	89	<10	<10	<5	0.54	<5	<50	316	<1	21	81.2	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 20, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
D72631 (686100)				9
D72632 (686101)				<5
D72633 (686102)				9
D72634 (686103)				8
D72635 (686104)				<5
D72636 (686105)				6
D72637 (686106)				8
D72638 (686107)				8
D72639 (686108)				10
D72640 (686109)				13
D72641 (686110)				14
D72642 (686111)				12
D72643 (686112)				7
D72644 (686113)				10
D72645 (686114)				13
D72646 (686115)				93
D72647 (686116)				11
D72648 (686117)				20
D72649 (686118)				17
D72650 (686119)				10
D72651 (686120)				25
D72652 (686121)				<5
D72653 (686122)				12
D72654 (686123)				12
D72655 (686124)				15
D72656 (686125)				15

Comments: RDL - Reported Detection Limit  
 686100-686125 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 04, 2019      DATE RECEIVED: Nov 05, 2019      DATE REPORTED: Nov 20, 2019      SAMPLE TYPE: Drill Core

Analyte:	Unit:	RDL:
Au	ppm	0.001
Sample ID (AGAT ID)		
D72631 (686100)		0.002
D72632 (686101)		0.002
D72633 (686102)		0.002
D72634 (686103)		0.001
D72635 (686104)		0.033
D72636 (686105)		0.001
D72637 (686106)		0.002
D72638 (686107)		<0.001
D72639 (686108)		<0.001
D72640 (686109)		<0.001
D72641 (686110)		<0.001
D72642 (686111)		<0.001
D72643 (686112)		<0.001
D72644 (686113)		<0.001
D72645 (686114)		0.001
D72646 (686115)		0.335
D72647 (686116)		0.003
D72648 (686117)		<0.001
D72649 (686118)		0.002
D72650 (686119)		<0.001
D72651 (686120)		0.162
D72652 (686121)		0.002
D72653 (686122)		0.004
D72654 (686123)		0.004
D72655 (686124)		0.008
D72656 (686125)		0.005

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 04, 2019	DATE RECEIVED: Nov 05, 2019	DATE REPORTED: Nov 20, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D72631 (686100)		85.34
D72649 (686118)		85.13

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B540212

PROJECT: AGAT00852

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 04, 2019

DATE RECEIVED: Nov 05, 2019

DATE REPORTED: Nov 20, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
D72631 (686100)	94

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	686100	< 0.5	< 0.5	0.0%	686116	< 0.5	< 0.5	0.0%								
Al	686100	3.91	3.91	0.0%	686116	3.83	3.84	0.3%								
As	686100	< 1	< 1	0.0%	686116	< 1	< 1	0.0%								
Ba	686100	21	20	4.9%	686116	10	10	0.0%								
Be	686100	< 0.5	< 0.5	0.0%	686116	< 0.5	< 0.5	0.0%								
Bi	686100	< 1	< 1	0.0%	686116	< 1	< 1	0.0%								
Ca	686100	4.03	4.23	4.8%	686116	4.49	4.74	5.4%								
Cd	686100	< 0.5	< 0.5	0.0%	686116	< 0.5	< 0.5	0.0%								
Ce	686100	3	2		686116	2	2	0.0%								
Co	686100	83.3	81.6	2.1%	686116	80.2	78.7	1.9%								
Cr	686100	1580	1560	1.3%	686116	1660	1710	3.0%								
Cu	686100	19.5	20.1	3.0%	686116	42.9	42.9	0.0%								
Fe	686100	7.39	7.67	3.7%	686116	7.01	7.36	4.9%								
Ga	686100	5	4	22.2%	686116	< 5	< 5	0.0%								
In	686100	< 1	< 1	0.0%	686116	< 1	< 1	0.0%								
K	686100	0.077	0.072	6.7%	686116	0.07	0.07	0.0%								
La	686100	< 2	< 2	0.0%	686116	< 2	< 2	0.0%								
Li	686100	9	9	0.0%	686116	6	6	0.0%								
Mg	686100	16.8	17.5	4.1%	686116	15.5	16.2	4.4%								
Mn	686100	1140	1150	0.9%	686116	1240	1260	1.6%								
Mo	686100	2.8	2.3	19.6%	686116	1.9	2.0	5.1%								
Na	686100	0.191	0.184	3.7%	686116	0.28	0.28	0.0%								
Ni	686100	1140	1140	0.0%	686116	1070	1070	0.0%								
P	686100	121	116	4.2%	686116	95	92	3.2%								
Pb	686100	< 20	< 20	0.0%	686116	< 20	< 20	0.0%								
Rb	686100	< 50	< 50	0.0%	686116	< 50	< 50	0.0%								
S	686100	0.03	0.03	0.0%	686116	0.09	0.09	0.0%								
Sb	686100	< 1	< 1	0.0%	686116	< 1	< 1	0.0%								
Sc	686100	27	27	0.0%	686116	26	25	3.9%								
Se	686100	< 10	< 10	0.0%	686116	< 10	< 10	0.0%								
Sn	686100	< 5	< 5	0.0%	686116	< 5	< 5	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.WMG-1a)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	11.02	101%	90% - 110%	4.75	5.09	107%	90% - 110%								
Ba	340	325	96%	90% - 110%	216	212	98%	90% - 110%								
Be	2.6	2.7	102%	90% - 110%												
Ca	5.72	5.47	96%	90% - 110%	10	9	94%	90% - 110%								
Ce	122	115	95%	90% - 110%												
Co					191	180	94%	90% - 110%								
Cr	12	9	75%	90% - 110%	670	695	104%	90% - 110%								
Cu	7	6	90%	90% - 110%	7120	7358	103%	90% - 110%								
Fe	4.34	4.17	96%	90% - 110%	12.71	12.18	96%	90% - 110%								
Ga	35	37	106%	90% - 110%												
K	1.37	1.4	102%	90% - 110%	0.1021	0.1065	104%	90% - 110%								
La	58	58	100%	90% - 110%	8.47	8.91	105%	90% - 110%								
Li	37	40	108%	90% - 110%												
Mg	0.325	0.307	95%	90% - 110%	7.41	7.93	107%	90% - 110%								
Na	5.267	5.299	101%	90% - 110%	0.112	0.121	108%	90% - 110%								
Ni					2480	2306	93%	90% - 110%								
P					731	791	108%	90% - 110%								
Pb	10	7	70%	90% - 110%												
Sc	1.1	1.1	98%	90% - 110%	21.33	22.24	104%	90% - 110%								
Sr	1191	1132	95%	90% - 110%	39	39	99%	90% - 110%								
Ti	0.172	0.166	96%	90% - 110%	0.419	0.408	97%	90% - 110%								
V	8	8	104%	90% - 110%	158	173	109%	90% - 110%								
Y	119	125	105%	90% - 110%	12.67	13.44	106%	90% - 110%								
Zn	93	90	97%	90% - 110%	112	104	93%	90% - 110%								
Zr					35.7	39.5	111%	90% - 110%								

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.66	95%	90% - 110%	6.56	6.66	101%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00852  
 SAMPLING SITE:

AGAT WORK ORDER: 19B540212  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00856

AGAT WORK ORDER: 19B541482

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Dec 10, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Dec 10, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72683 (695229)		4.59
D72684 (695230)		2.00
D72685 (695231)		2.05
D72686 (695232)		0.10
D72687 (695233)		2.30
D72688 (695234)		2.34
D72689 (695235)		2.48
D72690 (695236)		2.41
D72691 (695237)		1.76
D72692 (695238)		0.71
D72693 (695239)		0.81
D72694 (695240)		1.85
D72695 (695241)		2.57
D72696 (695242)		2.46
D72697 (695243)		2.24
D72698 (695244)		2.24
D72699 (695245)		1.79
D72700 (695246)		1.99
D72701 (695247)		1.12
D72702 (695248)		1.32
D72703 (695249)		1.77
D72704 (695250)		1.92
D72705 (695251)		2.05
D72706 (695252)		0.10
D72707 (695253)		2.37
D72708 (695254)		2.33
D72709 (695255)		1.26

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019							DATE REPORTED: Dec 10, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72683 (695229)	<0.5	3.93	<1	18	<0.5	<1	4.88	<0.5	3	77.3	2140	43.4	7.07	<5	
D72684 (695230)	<0.5	4.06	<1	18	<0.5	<1	4.91	<0.5	3	75.9	2090	23.3	7.26	<5	
D72685 (695231)	<0.5	4.95	<1	21	<0.5	<1	4.40	<0.5	4	80.6	2240	79.8	8.22	<5	
D72686 (695232)	<0.5	7.34	<1	182	1.0	<1	6.38	<0.5	23	35.5	222	101	7.90	16	
D72687 (695233)	<0.5	4.36	<1	18	<0.5	<1	4.62	<0.5	4	78.5	2200	44.4	7.60	<5	
D72688 (695234)	<0.5	3.61	<1	15	<0.5	<1	4.44	<0.5	4	77.6	2110	22.8	6.90	<5	
D72689 (695235)	<0.5	3.94	<1	16	<0.5	<1	4.52	<0.5	4	74.5	2090	48.2	7.01	<5	
D72690 (695236)	<0.5	4.26	<1	21	<0.5	<1	4.74	<0.5	4	78.2	2220	46.2	7.33	<5	
D72691 (695237)	<0.5	4.32	<1	30	<0.5	<1	5.03	<0.5	5	77.0	2340	59.3	7.77	<5	
D72692 (695238)	<0.5	0.07	4	40	<0.5	<1	27.4	<0.5	<1	1.3	16.1	0.9	0.24	<5	
D72693 (695239)	<0.5	5.10	5	680	<0.5	<1	6.84	0.5	8	73.9	1630	55.4	7.22	<5	
D72694 (695240)	<0.5	3.91	<1	195	<0.5	<1	8.01	<0.5	2	85.2	2240	68.6	6.39	<5	
D72695 (695241)	<0.5	3.61	<1	26	<0.5	<1	6.07	<0.5	2	71.4	2020	30.8	6.47	<5	
D72696 (695242)	<0.5	3.60	<1	20	<0.5	<1	5.35	<0.5	3	75.9	1990	11.9	7.08	<5	
D72697 (695243)	<0.5	3.79	<1	17	<0.5	<1	5.07	<0.5	3	75.8	1960	18.9	7.01	<5	
D72698 (695244)	<0.5	3.79	<1	18	<0.5	<1	5.06	<0.5	3	77.8	2130	19.4	7.01	<5	
D72699 (695245)	<0.5	3.84	<1	20	<0.5	<1	5.54	<0.5	3	77.0	2150	21.5	6.57	<5	
D72700 (695246)	<0.5	5.57	<1	166	<0.5	<1	6.38	<0.5	10	57.5	1290	32.3	7.13	6	
D72701 (695247)	<0.5	6.13	<1	237	<0.5	<1	5.33	<0.5	12	54.8	1040	121	7.67	8	
D72702 (695248)	<0.5	4.88	<1	85	<0.5	<1	5.31	<0.5	5	70.0	2220	54.1	7.71	<5	
D72703 (695249)	<0.5	5.44	<1	58	<0.5	<1	5.98	<0.5	6	64.6	1410	46.3	7.52	6	
D72704 (695250)	<0.5	5.02	<1	394	<0.5	<1	6.17	<0.5	7	64.7	1680	31.8	7.52	<5	
D72705 (695251)	<0.5	5.00	<1	45	<0.5	<1	5.90	<0.5	8	67.8	1790	20.4	7.53	<5	
D72706 (695252)	<0.5	7.01	<1	140	0.6	<1	6.64	<0.5	10	38.8	215	148	7.98	13	
D72707 (695253)	<0.5	5.32	<1	35	<0.5	<1	6.55	<0.5	8	79.6	1840	79.2	8.03	10	
D72708 (695254)	<0.5	4.71	<1	23	<0.5	<1	6.65	<0.5	6	77.0	1860	37.3	7.54	9	
D72709 (695255)	<0.5	4.26	<1	13	<0.5	<1	5.93	<0.5	3	82.7	2090	75.3	7.25	8	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Dec 10, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	In ppm 1	K % 0.01	La ppm 2	Li ppm 1	Mg % 0.01	Mn ppm 1	Mo ppm 0.5	Na % 0.01	Ni ppm 0.5	P ppm 10	Pb ppm 20	Rb ppm 50	S % 0.01	Sb ppm 1
D72683 (695229)		<1	0.06	<2	14	14.1	1300	2.7	0.40	1020	126	<20	<50	0.08	15
D72684 (695230)		<1	0.06	<2	14	14.3	1350	2.3	0.40	878	138	<20	<50	0.05	16
D72685 (695231)		<1	0.06	<2	16	14.8	1300	2.1	0.40	849	151	<20	<50	0.10	15
D72686 (695232)		<1	0.43	10	10	4.24	1360	2.1	2.21	102	902	<20	<50	0.11	<1
D72687 (695233)		<1	0.06	<2	15	14.4	1270	1.8	0.39	879	136	<20	<50	0.06	15
D72688 (695234)		<1	0.05	<2	13	14.5	1240	1.8	0.33	1010	116	<20	<50	0.05	15
D72689 (695235)		<1	0.05	<2	12	13.6	1310	1.9	0.38	907	122	<20	<50	0.07	15
D72690 (695236)		<1	0.07	<2	16	14.0	1380	1.9	0.43	954	137	<20	<50	0.08	16
D72691 (695237)		<1	0.08	<2	22	13.5	1450	2.0	0.50	892	119	<20	<50	0.07	16
D72692 (695238)		<1	0.01	<2	2	2.52	129	1.4	0.03	4.5	71	<20	<50	0.27	<1
D72693 (695239)		<1	0.62	2	59	8.73	1550	2.1	0.79	708	187	<20	64	0.03	8
D72694 (695240)		<1	0.16	<2	28	11.1	1610	1.6	0.68	1130	96	<20	<50	0.13	14
D72695 (695241)		<1	0.09	<2	10	14.3	1300	1.7	0.53	982	89	<20	<50	0.07	13
D72696 (695242)		<1	0.06	<2	8	15.0	1280	1.9	0.41	987	109	<20	<50	0.04	12
D72697 (695243)		<1	0.06	<2	8	14.6	1250	1.3	0.39	997	108	<20	<50	0.06	13
D72698 (695244)		<1	0.06	<2	8	14.6	1250	1.9	0.39	1020	122	<20	<50	0.05	16
D72699 (695245)		<1	0.07	<2	9	14.2	1170	1.8	0.46	955	105	<20	<50	0.08	12
D72700 (695246)		<1	0.30	4	46	8.39	1600	2.5	1.14	423	174	<20	<50	0.04	6
D72701 (695247)		<1	0.46	4	60	7.61	1550	3.1	1.40	330	262	<20	<50	0.06	1
D72702 (695248)		<1	0.13	<2	24	11.6	1400	2.5	0.70	832	188	<20	<50	0.07	13
D72703 (695249)		<1	0.11	2	30	11.3	1360	2.7	0.78	578	154	<20	<50	0.04	5
D72704 (695250)		<1	0.16	2	30	10.8	1450	2.4	0.88	590	186	<20	<50	0.03	9
D72705 (695251)		<1	0.11	2	30	10.7	1550	2.7	0.86	613	181	<20	<50	0.03	9
D72706 (695252)		<1	0.19	4	12	4.18	1410	1.8	2.11	85.1	430	<20	<50	0.18	<1
D72707 (695253)		<1	0.11	3	26	11.5	1530	2.2	0.86	730	190	<20	<50	0.08	<1
D72708 (695254)		<1	0.07	<2	19	11.9	1530	1.9	0.76	799	182	<20	<50	0.06	<1
D72709 (695255)		<1	0.05	<2	9	14.4	1380	2.0	0.51	1050	137	<20	<50	0.11	<1

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019					DATE REPORTED: Dec 10, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72683 (695229)	25	<10	<5	29	<10	<10	<5	0.21	<5	<50	152	77	8	63.2	
D72684 (695230)	26	<10	<5	29	<10	<10	<5	0.22	<5	<50	157	71	9	64.3	
D72685 (695231)	31	<10	<5	31	<10	<10	<5	0.29	<5	<50	192	68	11	61.3	
D72686 (695232)	34	<10	<5	241	<10	<10	<5	0.84	<5	<50	247	<1	22	84.9	
D72687 (695233)	28	<10	<5	32	<10	<10	<5	0.25	<5	<50	174	75	10	58.1	
D72688 (695234)	23	<10	<5	29	<10	<10	<5	0.20	<5	<50	142	68	8	59.8	
D72689 (695235)	25	<10	<5	32	<10	<10	<5	0.20	<5	<50	149	69	9	66.7	
D72690 (695236)	27	<10	<5	34	<10	<10	<5	0.23	<5	<50	170	74	10	70.8	
D72691 (695237)	29	<10	<5	40	<10	<10	<5	0.24	<5	<50	169	72	10	64.2	
D72692 (695238)	1	<10	<5	70	<10	<10	<5	<0.01	<5	<50	1.5	<1	2	3.7	
D72693 (695239)	31	<10	<5	73	<10	<10	<5	0.28	<5	<50	186	49	13	71.4	
D72694 (695240)	26	<10	<5	108	<10	<10	<5	0.20	<5	<50	158	79	9	59.1	
D72695 (695241)	24	<10	<5	62	<10	<10	<5	0.18	<5	<50	149	74	8	49.8	
D72696 (695242)	24	<10	<5	53	<10	<10	<5	0.19	<5	<50	145	61	9	59.2	
D72697 (695243)	24	<10	<5	51	<10	<10	<5	0.20	<5	<50	148	61	9	59.7	
D72698 (695244)	25	<10	<5	52	<10	<10	<5	0.20	<5	<50	153	72	9	58.1	
D72699 (695245)	26	<10	<5	60	<10	<10	<5	0.19	<5	<50	157	70	9	57.0	
D72700 (695246)	31	<10	<5	78	<10	<10	<5	0.31	<5	<50	193	37	14	68.5	
D72701 (695247)	34	<10	<5	87	<10	<10	<5	0.37	<5	<50	218	19	17	69.3	
D72702 (695248)	30	<10	<5	43	<10	<10	<5	0.28	<5	<50	184	68	12	82.8	
D72703 (695249)	32	<10	<5	46	<10	<10	<5	0.29	<5	<50	196	37	11	73.1	
D72704 (695250)	29	<10	<5	44	<10	<10	<5	0.28	<5	<50	177	47	12	66.5	
D72705 (695251)	30	<10	<5	39	<10	<10	<5	0.28	<5	<50	182	50	12	68.1	
D72706 (695252)	45	<10	<5	110	<10	<10	<5	0.65	<5	<50	314	<1	22	75.3	
D72707 (695253)	30	<10	<5	37	<10	<10	<5	0.28	<5	<50	188	21	14	68.8	
D72708 (695254)	29	<10	<5	37	<10	<10	<5	0.26	<5	<50	186	32	12	69.0	
D72709 (695255)	27	<10	<5	26	<10	<10	<5	0.24	<5	<50	166	42	9	61.3	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Dec 10, 2019      SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
RDL:	5
Sample ID (AGAT ID)	
D72683 (695229)	12
D72684 (695230)	12
D72685 (695231)	12
D72686 (695232)	91
D72687 (695233)	12
D72688 (695234)	10
D72689 (695235)	11
D72690 (695236)	13
D72691 (695237)	16
D72692 (695238)	<5
D72693 (695239)	16
D72694 (695240)	16
D72695 (695241)	15
D72696 (695242)	13
D72697 (695243)	12
D72698 (695244)	12
D72699 (695245)	14
D72700 (695246)	24
D72701 (695247)	24
D72702 (695248)	16
D72703 (695249)	20
D72704 (695250)	23
D72705 (695251)	22
D72706 (695252)	49
D72707 (695253)	24
D72708 (695254)	22
D72709 (695255)	16

Comments: RDL - Reported Detection Limit  
 695229-695255 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Dec 10, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Au	ppm	0.001	
D72683 (695229)				0.005
D72684 (695230)				0.002
D72685 (695231)				0.002
D72686 (695232)				0.323
D72687 (695233)				0.002
D72688 (695234)				0.006
D72689 (695235)				0.002
D72690 (695236)				0.002
D72691 (695237)				0.039
D72692 (695238)				0.002
D72693 (695239)				0.004
D72694 (695240)				0.006
D72695 (695241)				0.009
D72696 (695242)				0.002
D72697 (695243)				<0.001
D72698 (695244)				0.002
D72699 (695245)				0.001
D72700 (695246)				0.003
D72701 (695247)				0.006
D72702 (695248)				0.002
D72703 (695249)				0.122
D72704 (695250)				0.011
D72705 (695251)				0.004
D72706 (695252)				0.527
D72707 (695253)				0.008
D72708 (695254)				<0.001
D72709 (695255)				0.002

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Dec 10, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D72683 (695229)		83.5
D72700 (695246)		89.3

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B541482

PROJECT: AGAT00856

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Dec 10, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D72683 (695229)	92

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	695229	< 0.5	< 0.5	0.0%	695245	< 0.5	< 0.5	0.0%	695255	< 0.5	< 0.5	0.0%				
Al	695229	3.93	3.89	1.0%	695245	3.84	3.78	1.6%	695255	4.26	4.18	1.9%				
As	695229	< 1	< 1	0.0%	695245	< 1	< 1	0.0%	695255	< 1	< 1	0.0%				
Ba	695229	18	16	11.8%	695245	20	19	5.1%	695255	13	13	0.0%				
Be	695229	< 0.5	< 0.5	0.0%	695245	< 0.5	< 0.5	0.0%	695255	< 0.5	< 0.5	0.0%				
Bi	695229	< 1	< 1	0.0%	695245	< 1	< 1	0.0%	695255	< 1	< 1	0.0%				
Ca	695229	4.88	5.00	2.4%	695245	5.54	5.45	1.6%	695255	5.93	5.89	0.7%				
Cd	695229	< 0.5	< 0.5	0.0%	695245	< 0.5	< 0.5	0.0%	695255	< 0.5	< 0.5	0.0%				
Ce	695229	3	3	0.0%	695245	3	3	0.0%	695255	3	3	0.0%				
Co	695229	77.3	77.6	0.4%	695245	77.0	74.3	3.6%	695255	82.7	82.1	0.7%				
Cr	695229	2140	2180	1.9%	695245	2150	2090	2.8%	695255	2090	2090	0.0%				
Cu	695229	43.4	42.0	3.3%	695245	21.5	21.7	0.9%	695255	75.3	76.8	2.0%				
Fe	695229	7.07	7.22	2.1%	695245	6.57	6.51	0.9%	695255	7.25	7.24	0.1%				
Ga	695229	< 5	< 5	0.0%	695245	< 5	< 5	0.0%	695255	8	7	13.3%				
In	695229	< 1	< 1	0.0%	695245	< 1	< 1	0.0%	695255	< 1	< 1	0.0%				
K	695229	0.06	0.06	0.0%	695245	0.07	0.07	0.0%	695255	0.05	0.05	0.0%				
La	695229	< 2	< 2	0.0%	695245	< 2	< 2	0.0%	695255	< 2	< 2	0.0%				
Li	695229	14	14	0.0%	695245	9	8	11.8%	695255	9	9	0.0%				
Mg	695229	14.1	14.4	2.1%	695245	14.2	13.9	2.1%	695255	14.4	14.3	0.7%				
Mn	695229	1300	1310	0.8%	695245	1170	1160	0.9%	695255	1380	1340	2.9%				
Mo	695229	2.7	2.5	7.7%	695245	1.82	1.87	2.7%	695255	2.0	2.2	9.5%				
Na	695229	0.398	0.389	2.3%	695245	0.456	0.448	1.8%	695255	0.506	0.501	1.0%				
Ni	695229	1020	1040	1.9%	695245	955	926	3.1%	695255	1050	1030	1.9%				
P	695229	126	122	3.2%	695245	105	99	5.9%	695255	137	137	0.0%				
Pb	695229	< 20	< 20	0.0%	695245	< 20	< 20	0.0%	695255	< 20	< 20	0.0%				
Rb	695229	< 50	< 50	0.0%	695245	< 50	< 50	0.0%	695255	< 50	< 50	0.0%				
S	695229	0.076	0.074	2.7%	695245	0.08	0.08	0.0%	695255	0.11	0.11	0.0%				
Sb	695229	15	14	6.9%	695245	12	14	15.4%	695255	< 1	< 1	0.0%				
Sc	695229	25	25	0.0%	695245	26	26	0.0%	695255	27	27	0.0%				
Se	695229	< 10	< 10	0.0%	695245	< 10	< 10	0.0%	695255	< 10	< 10	0.0%				
Sn	695229	< 5	< 5	0.0%	695245	< 5	< 5	0.0%	695255	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	695229	29	27	7.1%	695245	60	59	1.7%	695255	26	25	3.9%				
Ta	695229	< 10	< 10	0.0%	695245	< 10	< 10	0.0%	695255	< 10	< 10	0.0%				
Te	695229	< 10	< 10	0.0%	695245	< 10	< 10	0.0%	695255	< 10	< 10	0.0%				
Th	695229	< 5	< 5	0.0%	695245	< 5	< 5	0.0%	695255	< 5	< 5	0.0%				
Ti	695229	0.21	0.21	0.0%	695245	0.19	0.19	0.0%	695255	0.239	0.232	3.0%				
Tl	695229	< 5	< 5	0.0%	695245	< 5	< 5	0.0%	695255	< 5	< 5	0.0%				
U	695229	< 50	< 50	0.0%	695245	< 50	< 50	0.0%	695255	< 50	< 50	0.0%				
V	695229	152	154	1.3%	695245	157	154	1.9%	695255	166	165	0.6%				
W	695229	77	69	11.0%	695245	70	69	1.4%	695255	42	40	4.9%				
Y	695229	8	8	0.0%	695245	9	9	0.0%	695255	9	9	0.0%				
Zn	695229	63.2	61.8	2.2%	695245	57.0	54.9	3.8%	695255	61.3	62.2	1.5%				
Zr	695229	12	12	0.0%	695245	14	14	0.0%	695255	16	16	0.0%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	695229	0.005	0.010		695248	0.002	0.002	0.0%	695255	0.0007	0.002	96.3%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.SY-4)				CRM #2 (ref.Till-2)				CRM #3 (ref.SY-4)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Al	10.95	10.56	96%	90% - 110%	8.17	8.1	99%	90% - 110%	10.95	10.72	98%	90% - 110%				
As					26	19	75%	90% - 110%								
Ba	340	329	97%	90% - 110%	540	506	94%	90% - 110%	340	325	96%	90% - 110%				
Be	2.6	2.7	104%	90% - 110%	4.0	3.3	84%	90% - 110%	2.6	2.7	103%	90% - 110%				
Ca	5.72	5.62	98%	90% - 110%	0.907	0.913	101%	90% - 110%	5.72	5.57	97%	90% - 110%				
Ce	122	122	100%	90% - 110%	98	108	110%	90% - 110%	122	125	103%	90% - 110%				
Cr	12	11	88%	90% - 110%	60.3	62.8	104%	90% - 110%								
Cu					150	147	98%	90% - 110%								
Fe	4.34	4.13	95%	90% - 110%	3.77	3.72	99%	90% - 110%	4.34	4.14	95%	90% - 110%				
Ga	35	35	99%	90% - 110%					35	34	98%	90% - 110%				
K	1.37	1.4	103%	90% - 110%					1.37	1.41	103%	90% - 110%				
La	58	52	89%	90% - 110%	44	44	99%	90% - 110%	58	54	93%	90% - 110%				
Li	37	38	102%	90% - 110%	47	46	97%	90% - 110%	37	39	104%	90% - 110%				
Mg	0.325	0.302	93%	90% - 110%	1.10	1.07	97%	90% - 110%	0.325	0.29	89%	90% - 110%				
Mn					780	774	99%	90% - 110%								
Mo					14	14	100%	90% - 110%								
Na	5.267	5.216	99%	90% - 110%	1.624	1.597	98%	90% - 110%	5.267	5.136	98%	90% - 110%				
Ni					32	32	99%	90% - 110%								
P					750	750	100%	90% - 110%								
Pb					31	26	83%	90% - 110%								
Rb	55	50	91%	90% - 110%	143	122	85%	90% - 110%	55	54	99%	90% - 110%				
Sc	1.1	1.1	103%	90% - 110%	12	12	103%	90% - 110%	1.1	1.2	105%	90% - 110%				
Sr	1191	1182	99%	90% - 110%	144	150	104%	90% - 110%	1191	1176	99%	90% - 110%				
Ti	0.172	0.164	95%	90% - 110%	0.53	0.47	88%	90% - 110%	0.172	0.165	96%	90% - 110%				
V	8	7	90%	90% - 110%	77	80	103%	90% - 110%	8	7	89%	90% - 110%				
Y	119	118	99%	90% - 110%					119	122	103%	90% - 110%				
Zn	93	91	98%	90% - 110%	130	117	90%	90% - 110%	93	88	94%	90% - 110%				

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (GS7H)				CRM #2 (GS2T)				CRM #3 (GS7H)							
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits				
Au	6.56	6.33	96%	90% - 110%	1.75	1.63	93%	90% - 110%	6.56	6.12	93%	90% - 110%				





## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00856  
 SAMPLING SITE:

AGAT WORK ORDER: 19B541482  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00858

AGAT WORK ORDER: 19B541483

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Nov 19, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72710 (695284)		4.01
D72711 (695285)		1.98
D72712 (695286)		0.67
D72713 (695287)		2.19
D72714 (695288)		2.50
D72715 (695289)		2.40
D72716 (695290)		2.86
D72717 (695291)		2.51
D72718 (695292)		2.51
D72719 (695293)		2.44
D72720 (695294)		2.04
D72721 (695295)		1.52
D72722 (695296)		2.38
D72723 (695297)		2.56
D72724 (695298)		2.63
D72725 (695299)		2.54
D72726 (695300)		0.10
D72727 (695301)		2.52
D72728 (695302)		2.48
D72729 (695303)		2.44
D72730 (695304)		2.37
D72731 (695305)		2.62
D72732 (695306)		0.68
D72733 (695307)		2.63
D72734 (695308)		2.96

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019							DATE REPORTED: Nov 19, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72710 (695284)	<0.5	7.69	<1	23	0.7	<1	7.76	<0.5	7	40.4	237	72.8	8.47	14	
D72711 (695285)	<0.5	7.56	<1	25	0.6	<1	7.79	<0.5	6	37.6	219	99.4	7.78	13	
D72712 (695286)	<0.5	0.08	<1	26	<0.5	<1	31.1	<0.5	<1	0.5	4.4	2.0	0.17	<5	
D72713 (695287)	<0.5	7.52	<1	123	1.0	<1	7.79	<0.5	6	38.2	185	69.4	8.03	13	
D72714 (695288)	<0.5	7.59	<1	20	0.5	<1	7.68	<0.5	6	39.8	216	92.5	8.13	13	
D72715 (695289)	<0.5	7.77	<1	22	0.5	<1	7.57	<0.5	6	41.1	227	183	8.99	12	
D72716 (695290)	<0.5	7.26	<1	31	0.5	<1	6.77	<0.5	6	38.4	187	61.6	8.30	13	
D72717 (695291)	<0.5	7.71	<1	56	0.5	<1	7.77	<0.5	6	41.4	205	71.6	8.38	14	
D72718 (695292)	<0.5	7.78	<1	56	<0.5	<1	7.74	<0.5	6	40.7	222	73.2	8.36	13	
D72719 (695293)	<0.5	7.30	<1	77	1.3	<1	7.32	<0.5	6	39.2	205	108	8.09	13	
D72720 (695294)	<0.5	7.35	<1	107	0.6	<1	7.70	<0.5	6	38.5	175	102	7.86	13	
D72721 (695295)	<0.5	7.58	<1	97	0.8	<1	7.81	<0.5	7	38.5	188	82.7	8.64	13	
D72722 (695296)	<0.5	7.11	<1	42	0.7	<1	7.17	<0.5	6	37.0	172	50.4	7.55	12	
D72723 (695297)	<0.5	7.52	<1	23	0.5	<1	7.82	<0.5	6	40.2	191	86.6	8.22	13	
D72724 (695298)	<0.5	7.54	<1	26	<0.5	<1	7.19	<0.5	6	40.7	195	100	8.76	13	
D72725 (695299)	<0.5	7.82	<1	76	0.5	<1	8.47	<0.5	7	39.4	273	81.4	8.75	13	
D72726 (695300)	<0.5	7.32	<1	191	1.1	<1	6.44	<0.5	23	36.4	169	105	7.92	15	
D72727 (695301)	<0.5	8.15	<1	141	0.8	<1	8.36	<0.5	6	41.9	206	104	8.66	16	
D72728 (695302)	<0.5	7.78	<1	59	0.6	<1	7.58	<0.5	6	41.8	212	99.2	8.48	15	
D72729 (695303)	<0.5	7.86	<1	89	0.7	<1	6.79	<0.5	6	48.9	232	99.8	8.74	13	
D72730 (695304)	<0.5	7.88	<1	39	0.5	<1	6.54	<0.5	6	47.8	199	113	8.97	13	
D72731 (695305)	<0.5	7.71	<1	64	1.1	<1	8.72	<0.5	5	40.1	193	114	8.79	13	
D72732 (695306)	<0.5	0.08	<1	24	<0.5	<1	29.3	<0.5	<1	0.8	4.8	1.5	0.18	<5	
D72733 (695307)	<0.5	7.89	<1	60	0.5	<1	7.96	0.5	6	41.7	195	114	8.76	14	
D72734 (695308)	<0.5	7.71	<1	29	1.4	<1	7.80	0.5	6	39.7	214	62.2	8.29	13	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

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MISSISSAUGA, ONTARIO  
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TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019					DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D72710 (695284)	<1	0.24	3	13	4.34	1440	4.5	1.48	117	287	<20	<50	0.12	<1	
D72711 (695285)	<1	0.22	3	18	4.34	1390	4.0	1.45	107	336	<20	<50	0.13	<1	
D72712 (695286)	<1	0.01	2	1	1.11	110	1.7	0.03	0.9	75	<20	<50	0.16	<1	
D72713 (695287)	<1	0.14	3	21	4.20	1370	4.0	1.48	110	332	<20	<50	0.10	<1	
D72714 (695288)	<1	0.14	2	19	3.69	1440	4.1	1.39	113	270	<20	<50	0.14	<1	
D72715 (695289)	<1	0.15	3	20	3.67	1560	4.5	1.46	116	288	<20	<50	0.30	<1	
D72716 (695290)	<1	0.26	3	20	3.87	1440	4.0	1.48	109	273	<20	<50	0.10	<1	
D72717 (695291)	<1	0.48	3	17	3.62	1450	4.9	1.33	120	292	<20	<50	0.11	<1	
D72718 (695292)	<1	0.49	3	16	3.67	1460	4.0	1.34	116	290	<20	<50	0.11	<1	
D72719 (695293)	<1	0.74	2	17	3.46	1480	4.2	1.35	111	264	<20	<50	0.17	<1	
D72720 (695294)	<1	0.50	3	15	3.28	1380	5.4	1.26	113	240	<20	<50	0.13	<1	
D72721 (695295)	<1	0.40	3	16	3.78	1460	4.4	1.38	111	297	<20	<50	0.09	<1	
D72722 (695296)	<1	0.20	2	15	3.42	1320	4.3	1.11	104	287	<20	<50	0.09	<1	
D72723 (695297)	<1	0.17	2	16	3.88	1510	3.8	1.09	113	274	<20	<50	0.12	<1	
D72724 (695298)	<1	0.22	3	17	4.26	1580	4.0	1.33	115	254	<20	<50	0.12	<1	
D72725 (695299)	<1	0.40	3	18	4.11	1540	4.7	1.36	116	279	<20	<50	0.12	<1	
D72726 (695300)	<1	0.43	10	10	4.16	1360	2.4	2.21	102	922	<20	<50	0.12	<1	
D72727 (695301)	<1	0.83	2	20	3.86	1580	4.4	1.13	121	320	<20	<50	0.20	<1	
D72728 (695302)	<1	0.69	3	20	4.54	1440	3.3	1.38	119	289	<20	<50	0.17	<1	
D72729 (695303)	<1	1.00	2	22	3.26	1540	4.2	1.37	149	241	<20	<50	0.22	<1	
D72730 (695304)	<1	0.55	2	22	3.43	1530	4.4	1.53	136	287	<20	<50	0.20	<1	
D72731 (695305)	<1	0.38	3	18	3.63	1630	4.3	1.24	119	261	<20	<50	0.16	<1	
D72732 (695306)	<1	<0.01	<2	2	1.75	122	1.6	0.04	1.2	60	<20	<50	0.13	<1	
D72733 (695307)	<1	0.26	3	19	4.00	1540	4.1	1.29	121	256	<20	<50	0.16	<1	
D72734 (695308)	<1	0.21	2	20	3.56	1490	4.2	1.50	118	278	<20	<50	0.11	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019					DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72710 (695284)	43	<10	<5	123	<10	<10	<5	0.59	<5	<50	297	<1	19	78.0	
D72711 (695285)	40	<10	<5	117	<10	<10	<5	0.59	<5	<50	278	<1	18	66.8	
D72712 (695286)	1	<10	<5	76	<10	<10	<5	<0.01	<5	<50	1.9	<1	2	3.0	
D72713 (695287)	42	<10	<5	112	<10	<10	<5	0.57	<5	<50	286	<1	19	69.0	
D72714 (695288)	43	<10	<5	92	<10	<10	<5	0.58	<5	<50	294	<1	18	72.5	
D72715 (695289)	45	<10	<5	85	<10	<10	<5	0.62	<5	<50	303	<1	20	75.0	
D72716 (695290)	41	<10	<5	62	<10	<10	<5	0.56	<5	<50	281	<1	18	72.5	
D72717 (695291)	44	<10	<5	67	<10	<10	<5	0.60	<5	<50	301	<1	18	73.4	
D72718 (695292)	43	<10	<5	67	<10	<10	<5	0.60	<5	<50	297	<1	18	73.5	
D72719 (695293)	43	<10	<5	68	<10	<10	<5	0.55	<5	<50	286	<1	18	73.0	
D72720 (695294)	41	<10	<5	68	<10	<10	<5	0.55	<5	<50	285	<1	18	67.5	
D72721 (695295)	42	<10	<5	68	<10	<10	<5	0.59	<5	<50	291	<1	19	75.5	
D72722 (695296)	40	<10	<5	88	<10	<10	<5	0.55	<5	<50	274	<1	17	71.1	
D72723 (695297)	42	<10	<5	105	<10	<10	<5	0.55	<5	<50	292	<1	18	75.8	
D72724 (695298)	44	<10	<5	80	<10	<10	<5	0.58	<5	<50	299	<1	19	78.1	
D72725 (695299)	43	<10	<5	70	<10	<10	<5	0.61	<5	<50	299	<1	19	74.0	
D72726 (695300)	34	<10	<5	240	<10	<10	<5	0.84	<5	<50	247	<1	22	89.3	
D72727 (695301)	45	<10	<5	71	<10	<10	<5	0.60	<5	<50	314	<1	19	78.9	
D72728 (695302)	44	<10	<5	81	<10	<10	<5	0.60	<5	<50	306	<1	18	71.7	
D72729 (695303)	44	<10	<5	71	<10	<10	<5	0.61	<5	<50	305	<1	18	70.0	
D72730 (695304)	44	<10	<5	73	<10	<10	<5	0.60	<5	<50	302	<1	18	67.4	
D72731 (695305)	43	<10	<5	64	<10	<10	<5	0.60	<5	<50	291	<1	18	74.5	
D72732 (695306)	1	<10	<5	69	<10	<10	<5	<0.01	<5	<50	2.2	<1	2	4.3	
D72733 (695307)	44	<10	<5	84	<10	<10	<5	0.60	<5	<50	308	<1	17	75.5	
D72734 (695308)	44	<10	<5	135	<10	<10	<5	0.60	<5	<50	296	<1	20	71.4	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
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TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Nov 19, 2019

SAMPLE TYPE: Drill Core

Analyte:	Zr
Unit:	ppm
RDL:	5
Sample ID (AGAT ID)	
D72710 (695284)	10
D72711 (695285)	10
D72712 (695286)	<5
D72713 (695287)	12
D72714 (695288)	10
D72715 (695289)	9
D72716 (695290)	14
D72717 (695291)	10
D72718 (695292)	10
D72719 (695293)	11
D72720 (695294)	10
D72721 (695295)	10
D72722 (695296)	10
D72723 (695297)	10
D72724 (695298)	10
D72725 (695299)	10
D72726 (695300)	90
D72727 (695301)	12
D72728 (695302)	11
D72729 (695303)	10
D72730 (695304)	9
D72731 (695305)	11
D72732 (695306)	<5
D72733 (695307)	11
D72734 (695308)	13

Comments: RDL - Reported Detection Limit  
695284-695308 As, Sb values may be low due to digestion losses.  
Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Au	Unit: ppm	RDL: 0.001
D72710 (695284)		0.010	
D72711 (695285)		0.005	
D72712 (695286)		0.002	
D72713 (695287)		0.005	
D72714 (695288)		0.004	
D72715 (695289)		0.007	
D72716 (695290)		0.004	
D72717 (695291)		0.004	
D72718 (695292)		0.006	
D72719 (695293)		0.004	
D72720 (695294)		0.004	
D72721 (695295)		0.004	
D72722 (695296)		0.005	
D72723 (695297)		0.004	
D72724 (695298)		0.005	
D72725 (695299)		0.043	
D72726 (695300)		0.357	
D72727 (695301)		0.007	
D72728 (695302)		0.004	
D72729 (695303)		0.003	
D72730 (695304)		0.092	
D72731 (695305)		0.006	
D72732 (695306)		0.002	
D72733 (695307)		0.006	
D72734 (695308)		0.005	

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:







## Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Nov 19, 2019

SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
D72710 (695284)		83.09
D72728 (695302)		83.37

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B541483

PROJECT: AGAT00858

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MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Nov 19, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
RDL:	0.01
Sample ID (AGAT ID)	
D72710 (695284)	93

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	695284	< 0.5	< 0.5	0.0%	695299	< 0.5	< 0.5	0.0%								
Al	695284	7.69	7.70	0.1%	695299	7.82	7.70	1.5%								
As	695284	< 1	< 1	0.0%	695299	< 1	< 1	0.0%								
Ba	695284	23	20	14.0%	695299	76	76	0.0%								
Be	695284	0.7	0.7	0.0%	695299	0.52	0.56	7.4%								
Bi	695284	< 1	< 1	0.0%	695299	< 1	< 1	0.0%								
Ca	695284	7.76	7.67	1.2%	695299	8.47	8.23	2.9%								
Cd	695284	< 0.5	< 0.5	0.0%	695299	< 0.5	< 0.5	0.0%								
Ce	695284	7	6	15.4%	695299	7	7	0.0%								
Co	695284	40.4	39.4	2.5%	695299	39.4	39.5	0.3%								
Cr	695284	237	192	21.0%	695299	273	210	26.1%								
Cu	695284	72.8	70.9	2.6%	695299	81.4	80.7	0.9%								
Fe	695284	8.47	8.37	1.2%	695299	8.75	8.49	3.0%								
Ga	695284	14	12	15.4%	695299	13	13	0.0%								
In	695284	< 1	< 1	0.0%	695299	< 1	< 1	0.0%								
K	695284	0.236	0.235	0.4%	695299	0.396	0.391	1.3%								
La	695284	3	3	0.0%	695299	3	3	0.0%								
Li	695284	13	13	0.0%	695299	18	18	0.0%								
Mg	695284	4.34	4.33	0.2%	695299	4.11	4.10	0.2%								
Mn	695284	1440	1440	0.0%	695299	1540	1550	0.6%								
Mo	695284	4.53	4.66	2.8%	695299	4.7	4.4	6.6%								
Na	695284	1.48	1.47	0.7%	695299	1.36	1.30	4.5%								
Ni	695284	117	113	3.5%	695299	116	115	0.9%								
P	695284	287	278	3.2%	695299	279	266	4.8%								
Pb	695284	< 20	< 20	0.0%	695299	< 20	< 20	0.0%								
Rb	695284	< 50	< 50	0.0%	695299	< 50	< 50	0.0%								
S	695284	0.12	0.11	8.7%	695299	0.12	0.12	0.0%								
Sb	695284	< 1	< 1	0.0%	695299	< 1	< 1	0.0%								
Sc	695284	43	43	0.0%	695299	43	43	0.0%								
Se	695284	< 10	< 10	0.0%	695299	< 10	< 10	0.0%								
Sn	695284	< 5	< 5	0.0%	695299	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	695284	123	123	0.0%	695299	70	69	1.4%									
Ta	695284	< 10	< 10	0.0%	695299	< 10	< 10	0.0%									
Te	695284	< 10	< 10	0.0%	695299	< 10	< 10	0.0%									
Th	695284	< 5	< 5	0.0%	695299	< 5	< 5	0.0%									
Ti	695284	0.59	0.59	0.0%	695299	0.61	0.59	3.3%									
Tl	695284	< 5	< 5	0.0%	695299	< 5	< 5	0.0%									
U	695284	< 50	< 50	0.0%	695299	< 50	< 50	0.0%									
V	695284	297	295	0.7%	695299	299	295	1.3%									
W	695284	< 1	< 1	0.0%	695299	< 1	< 1	0.0%									
Y	695284	19	18	5.4%	695299	19	19	0.0%									
Zn	695284	78.0	75.0	3.9%	695299	74.0	74.3	0.4%									
Zr	695284	10	10	0.0%	695299	10	10	0.0%									
<b>(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)</b>																	
	REPLICATE #1				REPLICATE #2												
Parameter	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	695284	0.010	0.005	66.7%	695299	0.043	0.004	165.4%									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (GS2T)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Al	10.95	10.72	98%	90% - 110%											
Ba	340	325	96%	90% - 110%											
Be	2.6	2.7	103%	90% - 110%											
Ca	5.72	5.57	97%	90% - 110%											
Ce	122	125	103%	90% - 110%											
Fe	4.34	4.14	95%	90% - 110%											
Ga	35	34	98%	90% - 110%											
K	1.37	1.41	103%	90% - 110%											
La	58	54	93%	90% - 110%											
Li	37	39	104%	90% - 110%											
Mg	0.325	0.29	89%	90% - 110%											
Na	5.267	5.136	98%	90% - 110%											
Rb	55	54	99%	90% - 110%											
Sc	1.1	1.2	105%	90% - 110%											
Sr	1191	1176	99%	90% - 110%											
Ti	0.172	0.165	96%	90% - 110%											
V	8	7	89%	90% - 110%											
Y	119	122	103%	90% - 110%											
Zn	93	88	94%	90% - 110%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (GS7H)				CRM #2 (GS2T)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	6.56	6.23	95%	90% - 110%	1.75	1.79	103%	90% - 110%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00858  
 SAMPLING SITE:

AGAT WORK ORDER: 19B541483  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00857

AGAT WORK ORDER: 19B541485

SOLID ANALYSIS REVIEWED BY: Kevin Motomura, Data Review Supervisor

DATE REPORTED: Nov 19, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
D72735 (695309)		3.07
D72736 (695310)		2.47
D72737 (695311)		2.02
D72738 (695312)		2.02
D72739 (695313)		1.82
D72740 (695314)		2.07
D72741 (695315)		1.96
D72742 (695316)		2.32
D72743 (695317)		2.20
D72744 (695318)		2.30
D72745 (695319)		2.39
D72746 (695320)		0.10
D72747 (695321)		2.54
D72748 (695322)		2.56
D72749 (695323)		2.55
D72750 (695324)		0.80
D72751 (695325)		1.54
D72752 (695326)		0.66
D72753 (695327)		2.42
D72754 (695328)		3.18
D72755 (695329)		1.52
D72756 (695330)		2.29

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019							DATE REPORTED: Nov 19, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
D72735 (695309)	<0.5	7.38	<1	106	0.7	<1	7.51	<0.5	11	36.4	149	102	8.55	14	
D72736 (695310)	<0.5	7.25	<1	80	<0.5	<1	6.65	<0.5	12	43.5	107	84.8	9.56	16	
D72737 (695311)	<0.5	7.60	<1	77	<0.5	<1	7.24	<0.5	8	41.5	170	160	8.46	14	
D72738 (695312)	<0.5	7.73	<1	79	<0.5	<1	7.12	<0.5	9	42.6	165	123	8.20	15	
D72739 (695313)	<0.5	7.11	<1	81	<0.5	<1	7.39	<0.5	13	37.0	89.7	112	8.95	15	
D72740 (695314)	<0.5	7.15	<1	68	<0.5	<1	7.12	<0.5	9	39.1	133	131	8.86	15	
D72741 (695315)	<0.5	7.46	<1	83	2.0	<1	7.43	<0.5	36	41.8	160	153	8.20	13	
D72742 (695316)	<0.5	7.49	<1	39	1.8	<1	8.64	<0.5	9	41.3	145	135	7.62	13	
D72743 (695317)	<0.5	7.58	<1	46	1.6	<1	7.97	<0.5	8	44.1	134	109	8.29	15	
D72744 (695318)	<0.5	7.62	<1	54	<0.5	<1	7.61	<0.5	9	40.2	161	109	8.41	14	
D72745 (695319)	<0.5	7.59	<1	25	<0.5	<1	5.63	<0.5	9	41.6	159	128	9.06	16	
D72746 (695320)	<0.5	7.03	<1	142	<0.5	<1	6.79	<0.5	10	39.5	156	151	7.92	14	
D72747 (695321)	<0.5	6.86	<1	25	0.5	<1	5.87	<0.5	11	41.4	49.6	119	10.4	18	
D72748 (695322)	<0.5	6.85	<1	50	<0.5	<1	6.03	<0.5	13	38.8	21.2	65.8	10.2	20	
D72749 (695323)	<0.5	7.58	<1	42	<0.5	<1	6.00	<0.5	8	37.9	36.4	127	9.03	16	
D72750 (695324)	<0.5	4.91	<1	993	7.5	<1	7.07	<0.5	136	37.1	164	95.0	7.80	11	
D72751 (695325)	<0.5	7.79	<1	162	1.5	<1	6.81	<0.5	7	34.3	109	135	7.77	15	
D72752 (695326)	<0.5	0.08	<1	25	<0.5	<1	33.0	<0.5	<1	0.8	4.5	<0.5	0.14	<5	
D72753 (695327)	<0.5	7.19	<1	73	<0.5	<1	8.34	<0.5	4	35.7	261	124	6.56	13	
D72754 (695328)	<0.5	9.02	<1	76	<0.5	<1	6.97	<0.5	5	40.8	237	50.1	6.81	14	
D72755 (695329)	<0.5	9.39	<1	102	<0.5	<1	7.38	<0.5	9	43.3	184	44.4	6.93	13	
D72756 (695330)	<0.5	9.34	<1	57	<0.5	<1	7.03	<0.5	9	43.7	189	60.8	6.92	14	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019					DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
D72735 (695309)	<1	0.25	4	14	3.12	1680	4.2	1.63	80.7	388	<20	<50	0.12	<1	
D72736 (695310)	<1	0.19	4	13	3.23	1940	4.9	1.55	79.9	469	<20	<50	0.13	<1	
D72737 (695311)	<1	0.20	3	13	3.48	1830	3.8	1.61	105	318	<20	<50	0.28	<1	
D72738 (695312)	<1	0.20	3	14	3.44	1790	4.6	1.64	106	314	<20	<50	0.25	<1	
D72739 (695313)	<1	0.23	4	12	3.26	1780	3.8	1.30	60.3	513	<20	<50	0.15	<1	
D72740 (695314)	<1	0.24	3	15	3.58	1740	3.3	1.45	72.3	384	<20	<50	0.19	<1	
D72741 (695315)	<1	0.31	13	25	3.19	1830	3.5	1.81	112	326	<20	<50	0.21	<1	
D72742 (695316)	<1	0.38	4	14	2.78	1730	2.8	1.86	112	284	<20	<50	0.14	<1	
D72743 (695317)	<1	0.36	3	18	3.46	1560	3.8	1.60	120	303	<20	<50	0.13	<1	
D72744 (695318)	<1	0.24	3	9	3.89	1540	3.8	1.69	107	337	<20	<50	0.13	<1	
D72745 (695319)	<1	0.16	3	8	4.78	1320	3.8	2.29	96.1	328	<20	<50	0.12	<1	
D72746 (695320)	<1	0.20	4	12	4.26	1340	1.4	2.28	87.4	434	<20	<50	0.18	<1	
D72747 (695321)	<1	0.19	4	10	3.79	1620	3.9	2.46	56.4	388	<20	<50	0.11	<1	
D72748 (695322)	<1	0.22	5	6	3.23	1460	4.0	2.48	42.0	430	<20	<50	0.14	<1	
D72749 (695323)	<1	0.25	3	6	3.60	1390	3.9	2.75	59.0	270	<20	<50	0.16	<1	
D72750 (695324)	<1	0.19	72	41	4.98	1470	7.1	3.62	183	223	<20	<50	0.10	<1	
D72751 (695325)	<1	0.49	3	25	4.17	1300	3.6	2.97	71.5	198	<20	<50	0.11	<1	
D72752 (695326)	<1	0.01	<2	2	1.37	90	1.5	0.04	0.9	77	<20	<50	0.12	<1	
D72753 (695327)	<1	0.51	2	9	4.66	1180	3.4	1.94	114	148	<20	<50	0.10	<1	
D72754 (695328)	<1	0.37	2	9	4.74	1070	3.5	2.25	167	187	<20	<50	0.10	<1	
D72755 (695329)	<1	0.37	5	13	4.66	1060	3.9	2.10	191	227	<20	<50	0.10	<1	
D72756 (695330)	<1	0.21	4	12	4.74	1060	4.4	2.05	196	218	<20	<50	0.11	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019					DATE REPORTED: Nov 19, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
D72735 (695309)	43	<10	<5	112	<10	<10	<5	0.69	<5	<50	339	<1	25	89.3	
D72736 (695310)	46	<10	<5	92	<10	<10	<5	0.83	<5	<50	415	<1	31	122	
D72737 (695311)	42	<10	<5	106	<10	<10	<5	0.62	<5	<50	326	<1	21	110	
D72738 (695312)	43	<10	<5	109	<10	<10	<5	0.63	<5	<50	331	<1	21	110	
D72739 (695313)	45	<10	<5	106	<10	<10	<5	0.82	<5	<50	364	<1	32	110	
D72740 (695314)	47	<10	<5	94	<10	<10	<5	0.72	<5	<50	361	<1	25	97.4	
D72741 (695315)	48	<10	<5	99	<10	<10	<5	0.60	<5	<50	327	<1	27	78.2	
D72742 (695316)	43	<10	<5	106	<10	<10	<5	0.55	<5	<50	305	<1	24	72.6	
D72743 (695317)	46	<10	<5	111	<10	<10	<5	0.58	<5	<50	327	<1	24	85.2	
D72744 (695318)	43	<10	<5	109	<10	<10	<5	0.61	<5	<50	328	<1	22	87.2	
D72745 (695319)	43	<10	<5	90	<10	<10	<5	0.62	<5	<50	329	<1	23	71.7	
D72746 (695320)	45	<10	<5	109	<10	<10	<5	0.66	<5	<50	312	<1	22	77.0	
D72747 (695321)	49	<10	<5	108	<10	<10	<5	0.77	<5	<50	397	<1	28	93.5	
D72748 (695322)	50	<10	<5	96	<10	<10	<5	0.88	<5	<50	450	<1	29	63.7	
D72749 (695323)	46	<10	<5	81	<10	<10	<5	0.64	<5	<50	358	<1	21	67.5	
D72750 (695324)	33	<10	<5	535	<10	<10	<5	0.75	<5	<50	292	<1	18	83.6	
D72751 (695325)	47	<10	<5	109	<10	<10	<5	0.54	<5	<50	312	<1	18	56.6	
D72752 (695326)	1	<10	<5	75	<10	<10	<5	<0.01	<5	<50	2.1	<1	2	3.7	
D72753 (695327)	43	<10	<5	78	<10	<10	<5	0.40	<5	<50	251	<1	15	47.2	
D72754 (695328)	31	<10	<5	97	<10	<10	<5	0.38	<5	<50	221	<1	13	54.4	
D72755 (695329)	28	<10	<5	106	<10	<10	<5	0.38	<5	<50	210	<1	14	56.3	
D72756 (695330)	28	<10	<5	109	<10	<10	<5	0.37	<5	<50	210	<1	14	62.1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
D72735 (695309)				13
D72736 (695310)				13
D72737 (695311)				10
D72738 (695312)				10
D72739 (695313)				13
D72740 (695314)				12
D72741 (695315)				35
D72742 (695316)				18
D72743 (695317)				16
D72744 (695318)				12
D72745 (695319)				16
D72746 (695320)				49
D72747 (695321)				22
D72748 (695322)				23
D72749 (695323)				22
D72750 (695324)				114
D72751 (695325)				26
D72752 (695326)				<5
D72753 (695327)				12
D72754 (695328)				13
D72755 (695329)				16
D72756 (695330)				14

Comments: RDL - Reported Detection Limit  
 695309-695330 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Nov 06, 2019      DATE RECEIVED: Nov 07, 2019      DATE REPORTED: Nov 19, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
D72735 (695309)			0.024
D72736 (695310)			0.006
D72737 (695311)			0.005
D72738 (695312)			0.007
D72739 (695313)			0.003
D72740 (695314)			0.003
D72741 (695315)			0.003
D72742 (695316)			0.002
D72743 (695317)			0.002
D72744 (695318)			0.004
D72745 (695319)			0.004
D72746 (695320)			0.564
D72747 (695321)			0.003
D72748 (695322)			0.002
D72749 (695323)			0.003
D72750 (695324)			0.003
D72751 (695325)			0.003
D72752 (695326)			0.001
D72753 (695327)			0.003
D72754 (695328)			0.001
D72755 (695329)			<0.001
D72756 (695330)			<0.001

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

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 CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Nov 06, 2019

DATE RECEIVED: Nov 07, 2019

DATE REPORTED: Nov 19, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D72735 (695309)	82
D72753 (695327)	86

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19B541485

PROJECT: AGAT00857

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CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Nov 06, 2019	DATE RECEIVED: Nov 07, 2019	DATE REPORTED: Nov 19, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
D72735 (695309)	96

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	695309	< 0.5	< 0.5	0.0%	695324	< 0.5	< 0.5	0.0%								
Al	695309	7.38	7.45	0.9%	695324	4.91	4.95	0.8%								
As	695309	< 1	< 1	0.0%	695324	< 1	< 1	0.0%								
Ba	695309	106	94	12.0%	695324	993	995	0.2%								
Be	695309	0.7	0.6	15.4%	695324	7.5	7.5	0.0%								
Bi	695309	< 1	< 1	0.0%	695324	< 1	< 1	0.0%								
Ca	695309	7.51	7.75	3.1%	695324	7.07	7.07	0.0%								
Cd	695309	< 0.5	< 0.5	0.0%	695324	< 0.5	< 0.5	0.0%								
Ce	695309	11	10	9.5%	695324	136	139	2.2%								
Co	695309	36.4	38.7	6.1%	695324	37.1	37.3	0.5%								
Cr	695309	149	148	0.7%	695324	164	164	0.0%								
Cu	695309	102	96.3	5.7%	695324	95.0	96.6	1.7%								
Fe	695309	8.55	8.77	2.5%	695324	7.80	7.83	0.4%								
Ga	695309	14	15	6.9%	695324	11	13	16.7%								
In	695309	< 1	< 1	0.0%	695324	< 1	< 1	0.0%								
K	695309	0.25	0.25	0.0%	695324	0.19	0.19	0.0%								
La	695309	4	4	0.0%	695324	72	75	4.1%								
Li	695309	14	14	0.0%	695324	41	42	2.4%								
Mg	695309	3.12	3.23	3.5%	695324	4.98	5.05	1.4%								
Mn	695309	1680	1730	2.9%	695324	1470	1480	0.7%								
Mo	695309	4.2	4.8	13.3%	695324	7.1	7.4	4.1%								
Na	695309	1.63	1.61	1.2%	695324	3.62	3.67	1.4%								
Ni	695309	80.7	85.6	5.9%	695324	183	183	0.0%								
P	695309	388	411	5.8%	695324	223	218	2.3%								
Pb	695309	< 20	< 20	0.0%	695324	< 20	< 20	0.0%								
Rb	695309	< 50	< 50	0.0%	695324	< 50	< 50	0.0%								
S	695309	0.12	0.11	8.7%	695324	0.098	0.094	4.2%								
Sb	695309	< 1	< 1	0.0%	695324	< 1	< 1	0.0%								
Sc	695309	43	44	2.3%	695324	33	33	0.0%								
Se	695309	< 10	< 10	0.0%	695324	< 10	< 10	0.0%								
Sn	695309	< 5	< 5	0.0%	695324	< 5	< 5	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	695309	112	110	1.8%	695324	535	541	1.1%												
Ta	695309	< 10	< 10	0.0%	695324	< 10	< 10	0.0%												
Te	695309	< 10	< 10	0.0%	695324	< 10	< 10	0.0%												
Th	695309	< 5	< 5	0.0%	695324	< 5	< 5	0.0%												
Ti	695309	0.69	0.69	0.0%	695324	0.75	0.75	0.0%												
Tl	695309	< 5	< 5	0.0%	695324	< 5	< 5	0.0%												
U	695309	< 50	< 50	0.0%	695324	< 50	< 50	0.0%												
V	695309	339	344	1.5%	695324	292	296	1.4%												
W	695309	< 1	< 1	0.0%	695324	< 1	< 1	0.0%												
Y	695309	25	26	3.9%	695324	18	18	0.0%												
Zn	695309	89.3	91.2	2.1%	695324	83.6	84.0	0.5%												
Zr	695309	13	14	7.4%	695324	114	116	1.7%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2															
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD												
Au	695309	0.024	0.006	120.0%	695324	.003	<0.001	0.0%												



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Al	10.95	10.68	97%	90% - 110%												
Ba	340	327	96%	90% - 110%												
Be	2.6	2.5	95%	90% - 110%												
Ca	5.72	5.6	98%	90% - 110%												
Ce	122	124	101%	90% - 110%												
Fe	4.34	4.07	94%	90% - 110%												
Ga	35	34	97%	90% - 110%												
K	1.37	1.42	104%	90% - 110%												
La	58	56	96%	90% - 110%												
Li	37	37	100%	90% - 110%												
Mg	0.325	0.301	93%	90% - 110%												
Na	5.267	5.33	101%	90% - 110%												
Ni	9	7	73%	90% - 110%												
Rb	55	55	101%	90% - 110%												
Sc	1.1	1.1	101%	90% - 110%												
Sr	1191	1154	97%	90% - 110%												
Ti	0.172	0.164	95%	90% - 110%												
V	8	7	92%	90% - 110%												
Y	119	122	103%	90% - 110%												
Zn	93	94	101%	90% - 110%												

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (GS2T)				CRM #2 (GS7H)											
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits								
Au	1.75	1.85	106%	90% - 110%	6.56	6.93	106%	90% - 110%								



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00857  
 SAMPLING SITE:

AGAT WORK ORDER: 19B541485  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MW-200-12006	BUGBEE, E;A Textbook of Fire Assay	ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00764

AGAT WORK ORDER: 19T512759

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Sep 30, 2019

PAGES (INCLUDING COVER): 12

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Sep 02, 2019

DATE RECEIVED: Sep 02, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Rock

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
A722968 (491452)		0.51
A722969 (491453)		2.06
A722970 (491454)		1.84
A722971 (491455)		1.95
A722972 (491456)		0.51
A722973 (491457)		1.35
A722974 (491458)		0.66
A722975 (491459)		2.33
A722976 (491460)		0.78
A722977 (491461)		1.00
A722978 (491462)		1.00
A722979 (491463)		1.58
A722980 (491464)		1.45
A722981 (491465)		1.77
A722982 (491466)		1.49

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT TIMMINS (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

5623 McADAM ROAD  
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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 02, 2019	DATE RECEIVED: Sep 02, 2019							DATE REPORTED: Sep 30, 2019				SAMPLE TYPE: Rock			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
A722968 (491452)	<0.5	7.26	<1	53	1.0	<1	7.98	<0.5	8	36.8	229	58.0	6.94	14	
A722969 (491453)	<0.5	7.69	<1	44	<0.5	<1	7.41	<0.5	5	40.3	192	73.6	7.22	14	
A722970 (491454)	<0.5	7.95	<1	34	<0.5	<1	8.87	<0.5	4	38.3	236	85.2	6.68	12	
A722971 (491455)	<0.5	8.07	<1	22	<0.5	<1	8.64	<0.5	4	41.6	242	105	6.88	13	
A722972 (491456)	<0.5	0.07	<1	14	<0.5	<1	32.5	<0.5	<1	<0.5	5.8	<0.5	0.09	<5	
A722973 (491457)	<0.5	7.95	<1	33	<0.5	<1	8.85	<0.5	4	41.1	172	115	6.62	13	
A722974 (491458)	<0.5	7.18	<1	117	0.6	<1	7.57	<0.5	13	38.2	192	137	6.79	14	
A722975 (491459)	<0.5	7.77	<1	40	<0.5	<1	7.58	<0.5	5	42.0	158	91.9	7.78	14	
A722976 (491460)	<0.5	7.37	<1	59	0.8	<1	6.58	<0.5	7	39.3	164	129	7.36	14	
A722977 (491461)	<0.5	7.22	<1	56	0.8	<1	6.66	<0.5	7	38.5	156	133	7.49	15	
A722978 (491462)	<0.5	7.34	<1	56	0.8	<1	6.59	<0.5	6	37.4	156	133	7.39	14	
A722979 (491463)	<0.5	7.62	<1	40	1.4	<1	7.44	<0.5	5	40.6	153	70.3	7.74	14	
A722980 (491464)	<0.5	7.58	<1	39	1.7	<1	7.25	<0.5	4	39.5	144	85.8	7.64	15	
A722981 (491465)	<0.5	7.55	<1	44	2.4	<1	7.23	<0.5	4	39.7	153	73.4	7.62	14	
A722982 (491466)	<0.5	7.52	<1	40	0.8	<1	7.21	<0.5	5	40.1	154	82.4	7.43	14	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

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 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 02, 2019	DATE RECEIVED: Sep 02, 2019		DATE REPORTED: Sep 30, 2019		SAMPLE TYPE: Rock										
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
Sample ID (AGAT ID)	RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1
A722968 (491452)	<1	0.26	3	10	4.21	1340	6.3	1.36	76.8	246	<20	<50	0.04	<1	
A722969 (491453)	<1	0.21	2	22	4.39	1230	4.6	1.28	84.4	178	<20	<50	0.04	<1	
A722970 (491454)	<1	0.13	<2	11	4.47	1320	4.6	1.06	94.9	163	<20	<50	0.08	<1	
A722971 (491455)	<1	0.11	2	8	4.81	1330	4.7	1.05	111	173	<20	<50	0.06	<1	
A722972 (491456)	<1	0.01	<2	<1	1.77	97	0.9	0.03	<0.5	78	<20	<50	0.07	<1	
A722973 (491457)	<1	0.16	<2	13	4.64	1400	4.3	1.11	117	152	<20	<50	0.07	<1	
A722974 (491458)	<1	0.44	6	13	4.16	1230	8.3	1.48	87.7	396	<20	<50	0.11	<1	
A722975 (491459)	<1	0.23	2	12	5.00	1430	4.1	1.42	91.9	191	<20	<50	0.05	<1	
A722976 (491460)	<1	0.28	3	19	4.80	1160	6.0	1.86	69.4	392	<20	<50	0.06	<1	
A722977 (491461)	<1	0.28	3	18	4.72	1130	6.0	1.85	66.3	394	<20	<50	0.06	<1	
A722978 (491462)	<1	0.28	3	18	4.78	1140	5.4	1.85	64.6	365	<20	<50	0.07	<1	
A722979 (491463)	<1	0.32	<2	30	5.15	1300	4.0	1.83	82.8	171	<20	<50	0.08	<1	
A722980 (491464)	<1	0.36	<2	34	5.02	1280	3.8	1.86	79.5	181	<20	<50	0.08	<1	
A722981 (491465)	<1	0.46	<2	41	5.04	1290	4.1	1.89	80.0	166	<20	<50	0.07	<1	
A722982 (491466)	<1	0.29	2	18	5.07	1280	4.8	1.52	85.1	213	<20	<50	0.07	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

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 FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 02, 2019	DATE RECEIVED: Sep 02, 2019					DATE REPORTED: Sep 30, 2019					SAMPLE TYPE: Rock				
Analyte: Unit: RDL:	Sc ppm 1	Se ppm 10	Sn ppm 5	Sr ppm 1	Ta ppm 10	Te ppm 10	Th ppm 5	Ti % 0.01	Tl ppm 5	U ppm 50	V ppm 0.5	W ppm 1	Y ppm 1	Zn ppm 0.5	
Sample ID (AGAT ID)															
A722968 (491452)	49	<10	<5	96	<10	<10	<5	0.37	<5	<50	236	<1	18	83.2	
A722969 (491453)	48	<10	<5	74	<10	<10	<5	0.37	<5	<50	242	<1	15	71.3	
A722970 (491454)	45	<10	<5	77	<10	<10	<5	0.36	<5	<50	228	<1	14	67.0	
A722971 (491455)	45	<10	<5	80	<10	<10	<5	0.34	<5	<50	228	<1	14	90.6	
A722972 (491456)	<1	<10	<5	70	<10	<10	<5	<0.01	<5	<50	1.1	<1	2	2.7	
A722973 (491457)	41	<10	<5	82	<10	<10	<5	0.33	<5	<50	217	<1	15	66.1	
A722974 (491458)	40	<10	<5	128	<10	<10	<5	0.40	<5	<50	218	<1	17	90.1	
A722975 (491459)	47	<10	<5	88	<10	<10	<5	0.42	<5	<50	252	<1	16	84.7	
A722976 (491460)	48	<10	<5	78	<10	<10	<5	0.40	<5	<50	257	<1	19	67.2	
A722977 (491461)	48	<10	<5	76	<10	<10	<5	0.42	<5	<50	258	<1	18	65.2	
A722978 (491462)	47	<10	<5	75	<10	<10	<5	0.41	<5	<50	255	<1	18	64.9	
A722979 (491463)	52	<10	<5	63	<10	<10	<5	0.38	<5	<50	264	<1	17	68.3	
A722980 (491464)	53	<10	<5	63	<10	<10	<5	0.39	<5	<50	263	<1	18	65.2	
A722981 (491465)	57	<10	<5	65	<10	<10	<5	0.39	<5	<50	269	<1	18	65.4	
A722982 (491466)	48	<10	<5	71	<10	<10	<5	0.40	<5	<50	249	<1	17	66.5	

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
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 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 02, 2019	DATE RECEIVED: Sep 02, 2019	DATE REPORTED: Sep 30, 2019	SAMPLE TYPE: Rock
Analyte: Zr	Unit: ppm	RDL: 5	
Sample ID (AGAT ID)			
A722968 (491452)		22	
A722969 (491453)		9	
A722970 (491454)		8	
A722971 (491455)		9	
A722972 (491456)		<5	
A722973 (491457)		13	
A722974 (491458)		33	
A722975 (491459)		13	
A722976 (491460)		22	
A722977 (491461)		19	
A722978 (491462)		17	
A722979 (491463)		19	
A722980 (491464)		19	
A722981 (491465)		26	
A722982 (491466)		16	

Comments: RDL - Reported Detection Limit  
 491452-491466 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 02, 2019	DATE RECEIVED: Sep 02, 2019	DATE REPORTED: Sep 30, 2019	SAMPLE TYPE: Rock
Analyte: Au	Unit: ppm	RDL: 0.001	
Sample ID (AGAT ID)			
A722968 (491452)		0.006	
A722969 (491453)		0.004	
A722970 (491454)		0.004	
A722971 (491455)		0.006	
A722972 (491456)		<0.001	
A722973 (491457)		0.003	
A722974 (491458)		0.007	
A722975 (491459)		0.004	
A722976 (491460)		0.006	
A722977 (491461)		0.005	
A722978 (491462)		0.005	
A722979 (491463)		0.002	
A722980 (491464)		0.002	
A722981 (491465)		0.002	
A722982 (491466)		0.002	

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 02, 2019

DATE RECEIVED: Sep 02, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Rock

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
A722968 (491452)	96.73

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT TIMMINS (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	491452	< 0.5	< 0.5	0.0%	491466	< 0.5	< 0.5	0.0%				
Al	491452	7.26	7.41	2.0%	491466	7.52	7.42	1.3%				
As	491452	< 1	< 1	0.0%	491466	< 1	< 1	0.0%				
Ba	491452	53	53	0.0%	491466	40	40	0.0%				
Be	491452	1.0	1.0	0.0%	491466	0.8	0.8	0.0%				
Bi	491452	< 1	< 1	0.0%	491466	< 1	< 1	0.0%				
Ca	491452	7.98	8.06	1.0%	491466	7.21	7.21	0.0%				
Cd	491452	< 0.5	< 0.5	0.0%	491466	< 0.5	< 0.5	0.0%				
Ce	491452	8	8	0.0%	491466	5	6	18.2%				
Co	491452	36.8	37.3	1.3%	491466	40.1	40.4	0.7%				
Cr	491452	229	241	5.1%	491466	154	142	8.1%				
Cu	491452	58.0	59.3	2.2%	491466	82.4	79.0	4.2%				
Fe	491452	6.94	7.03	1.3%	491466	7.43	7.46	0.4%				
Ga	491452	14	13	7.4%	491466	14	14	0.0%				
In	491452	< 1	< 1	0.0%	491466	< 1	< 1	0.0%				
K	491452	0.26	0.26	0.0%	491466	0.29	0.29	0.0%				
La	491452	3	3	0.0%	491466	2	2	0.0%				
Li	491452	10	10	0.0%	491466	18	18	0.0%				
Mg	491452	4.21	4.28	1.6%	491466	5.07	5.02	1.0%				
Mn	491452	1340	1340	0.0%	491466	1280	1270	0.8%				
Mo	491452	6.3	7.3	14.7%	491466	4.77	3.70	25.3%				
Na	491452	1.36	1.38	1.5%	491466	1.52	1.51	0.7%				
Ni	491452	76.8	77.5	0.9%	491466	85.1	85.6	0.6%				
P	491452	246	244	0.8%	491466	213	206	3.3%				
Pb	491452	< 20	< 20	0.0%	491466	< 20	< 20	0.0%				
Rb	491452	< 50	< 50	0.0%	491466	< 50	< 50	0.0%				
S	491452	0.04	0.04	0.0%	491466	0.07	0.07	0.0%				
Sb	491452	< 1	< 1	0.0%	491466	< 1	< 1	0.0%				
Sc	491452	49	49	0.0%	491466	48	48	0.0%				
Se	491452	< 10	< 10	0.0%	491466	< 10	< 10	0.0%				
Sn	491452	< 5	< 5	0.0%	491466	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	491452	96	96	0.0%	491466	71	71	0.0%								
Ta	491452	< 10	< 10	0.0%	491466	< 10	< 10	0.0%								
Te	491452	< 10	< 10	0.0%	491466	< 10	< 10	0.0%								
Th	491452	< 5	< 5	0.0%	491466	< 5	< 5	0.0%								
Ti	491452	0.37	0.37	0.0%	491466	0.40	0.40	0.0%								
Tl	491452	< 5	< 5	0.0%	491466	< 5	< 5	0.0%								
U	491452	< 50	< 50	0.0%	491466	< 50	< 50	0.0%								
V	491452	236	238	0.8%	491466	249	253	1.6%								
W	491452	< 1	< 1	0.0%	491466	< 1	< 1	0.0%								
Y	491452	18	18	0.0%	491466	17	17	0.0%								
Zn	491452	83.2	82.5	0.8%	491466	66.5	66.7	0.3%								
Zr	491452	22	22	0.0%	491466	16	17	6.1%								

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Au	491452	0.006	0.008	28.6%	491466	0.0022	0.0028	24.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)														
	Expect	Actual	Recovery	Limits											
Al	10.95	10.87	99%	90% - 110%											
Ba	340	322	95%	90% - 110%											
Be	2.6	2.7	106%	90% - 110%											
Ca	5.72	5.53	97%	90% - 110%											
Ce	122	123	100%	90% - 110%											
Fe	4.34	4.01	92%	90% - 110%											
Ga	35	33	95%	90% - 110%											
K	1.37	1.43	104%	90% - 110%											
La	58	55	95%	90% - 110%											
Li	37	38	101%	90% - 110%											
Mg	0.325	0.293	90%	90% - 110%											
Na	5.267	5.528	105%	90% - 110%											
Ni	9	6	72%	90% - 110%											
Pb	10	7	72%	90% - 110%											
Sc	1.1	1	91%	90% - 110%											
Sr	1191	1105	93%	90% - 110%											
Ti	0.172	0.168	98%	90% - 110%											
V	8	7	92%	90% - 110%											
Y	119	124	104%	90% - 110%											
Zn	93	93	100%	90% - 110%											

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GS6F)														
	Expect	Actual	Recovery	Limits											
Au	6.87	6.93	101%	90% - 110%											



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED

AGAT WORK ORDER: 19T512759

PROJECT: AGAT00764

ATTENTION TO: Craig Yuill

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00781

AGAT WORK ORDER: 19T516705

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Sep 30, 2019

PAGES (INCLUDING COVER): 19

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Sep 10, 2019      DATE RECEIVED: Sep 11, 2019      DATE REPORTED: Sep 30, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Unit: RDL:	Sample Login Weight kg 0.01
C67801 (518102)		3.95
C67802 (518103)		1.87
C67803 (518104)		2.14
C67804 (518105)		2.22
C67805 (518106)		2.22
C67806 (518107)		0.07
C67807 (518108)		2.27
C67808 (518109)		2.29
C67809 (518110)		1.15
C67810 (518111)		1.26
C67811 (518112)		2.31
C67812 (518113)		0.68
C67813 (518114)		2.39
C67814 (518115)		2.26
C67815 (518116)		2.34
C67816 (518117)		2.23
C67817 (518118)		2.13
C67818 (518119)		2.13
C67819 (518120)		2.24
C67820 (518121)		2.40
C67821 (518122)		1.51
C67822 (518123)		0.79
C67823 (518124)		2.13
C67824 (518125)		2.36
C67825 (518126)		1.88
C67826 (518127)		0.07
C67827 (518128)		1.66
C67828 (518129)		1.29
C67829 (518130)		2.46
C67830 (518131)		2.34
C67831 (518132)		1.01

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Sep 10, 2019

DATE RECEIVED: Sep 11, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Drill Core

Analyte:	Sample Login Weight
Unit:	kg
Sample ID (AGAT ID)	RDL: 0.01
C67832 (518133)	0.63

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT TIMMINS (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019	DATE RECEIVED: Sep 11, 2019							DATE REPORTED: Sep 30, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
C67801 (518102)	<0.5	7.45	<1	512	1.0	<1	2.48	<0.5	46	19.4	94.7	24.1	4.59	16	
C67802 (518103)	0.6	8.02	<1	694	1.3	<1	2.78	<0.5	66	19.4	79.7	65.7	4.66	17	
C67803 (518104)	<0.5	7.41	<1	433	0.9	<1	3.07	<0.5	59	19.2	109	21.4	4.52	16	
C67804 (518105)	<0.5	7.46	<1	527	1.5	<1	2.74	<0.5	53	16.5	83.7	34.9	4.33	16	
C67805 (518106)	<0.5	7.48	<1	555	1.0	<1	2.77	<0.5	54	17.5	105	42.5	4.36	16	
C67806 (518107)	<0.5	7.39	<1	190	0.6	<1	6.41	<0.5	20	37.9	155	100	7.96	17	
C67807 (518108)	<0.5	7.33	<1	583	1.3	<1	2.87	<0.5	54	18.6	108	24.6	4.53	15	
C67808 (518109)	<0.5	7.42	<1	488	0.9	<1	3.20	<0.5	46	21.4	117	40.5	4.93	17	
C67809 (518110)	<0.5	7.68	<1	454	1.1	<1	2.97	<0.5	52	17.0	82.0	36.0	4.39	16	
C67810 (518111)	<0.5	7.98	<1	558	0.9	<1	3.23	<0.5	45	25.8	122	87.8	5.71	18	
C67811 (518112)	<0.5	7.91	<1	538	7.6	<1	2.89	<0.5	50	19.8	89.7	42.9	4.51	17	
C67812 (518113)	<0.5	0.08	<1	22	<0.5	<1	31.8	<0.5	<1	<0.5	5.9	<0.5	0.19	<5	
C67813 (518114)	0.7	7.76	<1	545	1.0	<1	2.76	<0.5	47	18.8	79.1	33.2	4.54	17	
C67814 (518115)	<0.5	7.72	<1	484	0.9	<1	3.17	<0.5	46	22.7	125	45.6	5.29	17	
C67815 (518116)	<0.5	7.58	<1	425	0.8	<1	2.81	<0.5	46	21.7	97.4	33.5	5.05	17	
C67816 (518117)	<0.5	7.29	<1	523	1.1	<1	2.48	<0.5	52	17.9	87.5	31.9	4.12	16	
C67817 (518118)	0.5	8.00	<1	643	1.1	<1	2.52	<0.5	52	18.4	75.9	42.4	4.52	18	
C67818 (518119)	<0.5	8.05	<1	654	1.0	<1	2.54	<0.5	52	18.0	75.7	47.2	4.58	17	
C67819 (518120)	<0.5	7.38	<1	497	1.0	<1	2.51	<0.5	45	15.0	66.7	27.3	3.67	16	
C67820 (518121)	<0.5	7.70	<1	515	1.0	<1	3.08	<0.5	51	20.1	93.3	39.0	4.70	16	
C67821 (518122)	<0.5	7.29	2	563	1.0	<1	3.00	<0.5	115	18.3	73.1	34.7	4.26	15	
C67822 (518123)	<0.5	7.40	1	654	1.2	<1	3.01	<0.5	70	19.9	143	63.0	4.15	16	
C67823 (518124)	<0.5	7.23	1	589	1.0	<1	2.23	<0.5	48	17.1	77.7	21.7	3.69	15	
C67824 (518125)	<0.5	7.32	4	548	1.4	<1	2.24	<0.5	48	15.7	80.5	32.0	3.59	16	
C67825 (518126)	<0.5	7.22	<1	437	1.0	<1	2.24	<0.5	45	16.6	78.7	36.4	3.84	15	
C67826 (518127)	<0.5	7.66	<1	194	0.6	<1	6.67	<0.5	21	38.5	163	104	8.29	17	
C67827 (518128)	<0.5	7.32	2	440	1.3	<1	2.53	<0.5	45	18.3	72.1	37.4	4.01	15	
C67828 (518129)	<0.5	7.45	<1	523	1.1	<1	2.71	<0.5	49	18.2	84.4	46.5	4.21	16	
C67829 (518130)	<0.5	7.54	<1	470	1.6	<1	2.68	<0.5	45	18.2	79.9	41.5	4.36	16	
C67830 (518131)	<0.5	7.24	<1	437	1.1	<1	2.58	<0.5	46	16.7	73.7	36.1	4.07	16	
C67831 (518132)	<0.5	7.35	<1	460	1.0	<1	2.74	<0.5	58	16.5	106	39.9	4.01	15	
C67832 (518133)	<0.5	0.08	<1	22	<0.5	<1	30.9	<0.5	<1	<0.5	9.2	<0.5	0.21	<5	

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**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019

DATE RECEIVED: Sep 11, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019	DATE RECEIVED: Sep 11, 2019					DATE REPORTED: Sep 30, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
C67801 (518102)	<1	1.33	20	16	1.60	803	9.6	2.97	58.3	599	<20	<50	0.10	<1	
C67802 (518103)	<1	1.60	29	21	1.48	885	8.2	3.10	54.8	830	<20	<50	0.18	<1	
C67803 (518104)	<1	1.10	26	13	1.87	875	7.9	3.05	61.0	782	<20	<50	0.09	<1	
C67804 (518105)	<1	1.28	24	18	1.41	809	7.2	3.05	52.7	696	<20	<50	0.14	<1	
C67805 (518106)	<1	1.25	24	15	1.56	870	7.8	2.91	56.2	747	<20	<50	0.19	<1	
C67806 (518107)	<1	0.43	9	10	4.50	1310	2.1	2.35	108	896	<20	<50	0.10	<1	
C67807 (518108)	<1	1.53	24	23	1.79	861	7.7	2.83	62.1	732	<20	<50	0.12	<1	
C67808 (518109)	<1	1.66	21	19	1.89	926	6.3	2.44	64.5	679	<20	<50	0.20	<1	
C67809 (518110)	<1	1.62	23	22	1.35	945	5.5	2.74	49.2	711	<20	<50	0.19	<1	
C67810 (518111)	<1	1.95	20	21	1.78	1140	4.2	2.59	67.0	648	<20	<50	0.45	<1	
C67811 (518112)	<1	1.74	23	20	1.73	824	4.5	2.73	62.3	722	<20	<50	0.19	<1	
C67812 (518113)	<1	0.02	<2	2	1.83	120	2.1	0.04	1.5	83	<20	<50	0.04	<1	
C67813 (518114)	<1	1.35	22	20	1.50	854	5.0	2.88	54.2	662	<20	<50	0.14	<1	
C67814 (518115)	<1	1.11	21	19	1.75	1090	5.5	2.89	68.7	672	<20	<50	0.21	<1	
C67815 (518116)	<1	0.90	20	17	1.76	965	5.0	3.13	62.0	701	<20	<50	0.15	<1	
C67816 (518117)	<1	1.04	24	19	1.54	755	4.5	3.03	56.2	689	<20	<50	0.13	<1	
C67817 (518118)	<1	1.51	24	22	1.52	835	6.0	3.13	56.1	787	<20	<50	0.19	<1	
C67818 (518119)	<1	1.51	23	22	1.53	852	6.0	3.14	56.2	770	<20	<50	0.19	<1	
C67819 (518120)	<1	1.07	20	16	1.21	716	6.5	3.03	45.9	619	<20	<50	0.11	<1	
C67820 (518121)	<1	1.40	23	16	1.46	914	4.5	2.83	58.2	710	<20	<50	0.17	<1	
C67821 (518122)	<1	1.55	48	18	1.44	935	8.4	2.82	55.9	746	<20	<50	0.17	<1	
C67822 (518123)	<1	1.53	31	20	1.69	906	6.8	2.96	78.4	748	<20	<50	0.24	<1	
C67823 (518124)	<1	1.46	22	22	1.53	652	6.7	2.70	59.3	671	<20	<50	0.09	<1	
C67824 (518125)	<1	1.44	21	21	1.42	542	5.9	3.11	53.1	653	<20	<50	0.10	<1	
C67825 (518126)	<1	1.23	21	18	1.28	661	7.2	3.03	50.2	619	<20	<50	0.11	<1	
C67826 (518127)	<1	0.44	9	10	4.69	1360	1.9	2.39	110	904	<20	<50	0.10	<1	
C67827 (518128)	<1	1.37	20	18	1.37	799	5.0	2.94	53.9	649	<20	<50	0.11	<1	
C67828 (518129)	<1	1.34	22	20	1.43	774	6.3	2.88	54.9	656	<20	<50	0.16	<1	
C67829 (518130)	<1	1.37	21	20	1.38	782	7.5	2.84	53.8	647	<20	<50	0.16	<1	
C67830 (518131)	<1	1.55	21	25	1.28	708	10.8	2.69	49.4	638	<20	<50	0.14	<1	
C67831 (518132)	<1	1.62	25	21	1.40	765	8.6	2.55	56.0	680	<20	<50	0.15	<1	
C67832 (518133)	<1	0.02	<2	1	1.32	103	3.4	0.04	1.8	84	<20	<50	0.04	<1	

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# Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019

DATE RECEIVED: Sep 11, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Drill Core

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019	DATE RECEIVED: Sep 11, 2019					DATE REPORTED: Sep 30, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
C67801 (518102)	18	<10	<5	520	<10	<10	<5	0.37	<5	<50	124	<1	14	90.8	
C67802 (518103)	16	<10	<5	445	<10	<10	<5	0.40	<5	<50	121	<1	17	85.6	
C67803 (518104)	18	<10	<5	462	<10	<10	<5	0.40	<5	<50	124	<1	16	80.7	
C67804 (518105)	16	<10	<5	436	<10	<10	<5	0.36	<5	<50	111	<1	16	71.7	
C67805 (518106)	15	<10	<5	449	<10	<10	<5	0.37	<5	<50	112	<1	16	78.5	
C67806 (518107)	35	<10	<5	240	<10	<10	<5	0.86	<5	<50	244	<1	22	94.7	
C67807 (518108)	17	<10	<5	449	<10	<10	<5	0.37	<5	<50	115	<1	14	79.1	
C67808 (518109)	18	<10	<5	387	<10	<10	<5	0.42	<5	<50	135	<1	16	80.2	
C67809 (518110)	16	<10	<5	437	<10	<10	<5	0.36	<5	<50	113	<1	15	69.7	
C67810 (518111)	22	<10	<5	479	<10	<10	<5	0.51	<5	<50	150	<1	19	91.2	
C67811 (518112)	16	<10	<5	398	<10	<10	<5	0.38	<5	<50	116	<1	14	78.3	
C67812 (518113)	<1	<10	<5	71	<10	<10	<5	<0.01	<5	<50	1.4	<1	2	2.6	
C67813 (518114)	17	<10	<5	441	<10	<10	<5	0.38	<5	<50	124	<1	15	78.4	
C67814 (518115)	19	<10	<5	483	<10	<10	<5	0.42	<5	<50	138	<1	17	88.9	
C67815 (518116)	20	<10	<5	523	<10	<10	<5	0.42	<5	<50	142	<1	17	84.7	
C67816 (518117)	16	<10	<5	530	<10	<10	<5	0.38	<5	<50	113	<1	15	76.1	
C67817 (518118)	16	<10	<5	570	<10	<10	<5	0.43	<5	<50	120	<1	16	85.8	
C67818 (518119)	16	<10	<5	578	<10	<10	<5	0.43	<5	<50	119	<1	16	83.6	
C67819 (518120)	13	<10	<5	511	<10	<10	<5	0.33	<5	<50	93.7	<1	13	64.1	
C67820 (518121)	18	<10	<5	495	<10	<10	<5	0.39	<5	<50	131	<1	15	78.1	
C67821 (518122)	16	<10	<5	453	<10	<10	<5	0.35	<5	<50	107	<1	16	64.2	
C67822 (518123)	15	<10	<5	427	<10	<10	<5	0.35	<5	<50	107	<1	14	71.9	
C67823 (518124)	13	<10	<5	410	<10	<10	<5	0.33	<5	<50	99.7	<1	13	70.4	
C67824 (518125)	13	<10	<5	442	<10	<10	<5	0.33	<5	<50	95.9	<1	13	70.0	
C67825 (518126)	14	<10	<5	456	<10	<10	<5	0.34	<5	<50	103	<1	13	73.3	
C67826 (518127)	35	<10	<5	247	<10	<10	<5	0.89	<5	<50	247	<1	23	98.6	
C67827 (518128)	16	<10	<5	442	<10	<10	<5	0.35	<5	<50	113	<1	15	73.5	
C67828 (518129)	16	<10	<5	446	<10	<10	<5	0.36	<5	<50	113	<1	14	80.0	
C67829 (518130)	17	<10	<5	435	<10	<10	<5	0.40	<5	<50	116	<1	15	74.5	
C67830 (518131)	15	<10	<5	399	<10	<10	<5	0.36	<5	<50	105	<1	14	74.1	
C67831 (518132)	13	<10	<5	361	<10	<10	<5	0.33	<5	<50	95.3	<1	14	69.7	
C67832 (518133)	<1	<10	<5	71	<10	<10	<5	<0.01	<5	<50	1.4	<1	2	2.9	

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019

DATE RECEIVED: Sep 11, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Drill Core

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

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(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019      DATE RECEIVED: Sep 11, 2019      DATE REPORTED: Sep 30, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
C67801 (518102)				100
C67802 (518103)				128
C67803 (518104)				115
C67804 (518105)				109
C67805 (518106)				109
C67806 (518107)				88
C67807 (518108)				97
C67808 (518109)				96
C67809 (518110)				105
C67810 (518111)				101
C67811 (518112)				102
C67812 (518113)				<5
C67813 (518114)				106
C67814 (518115)				100
C67815 (518116)				101
C67816 (518117)				111
C67817 (518118)				123
C67818 (518119)				126
C67819 (518120)				105
C67820 (518121)				108
C67821 (518122)				107
C67822 (518123)				100
C67823 (518124)				99
C67824 (518125)				108
C67825 (518126)				103
C67826 (518127)				95
C67827 (518128)				101
C67828 (518129)				99
C67829 (518130)				103
C67830 (518131)				100
C67831 (518132)				89
C67832 (518133)				<5

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# Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 10, 2019

DATE RECEIVED: Sep 11, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit

518102-518133 As, Sb values may be low due to digestion losses.

Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 10, 2019      DATE RECEIVED: Sep 11, 2019      DATE REPORTED: Sep 30, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
C67801 (518102)			0.014
C67802 (518103)			0.005
C67803 (518104)			0.004
C67804 (518105)			0.013
C67805 (518106)			0.005
C67806 (518107)			0.334
C67807 (518108)			0.033
C67808 (518109)			0.007
C67809 (518110)			0.009
C67810 (518111)			0.009
C67811 (518112)			0.004
C67812 (518113)			0.002
C67813 (518114)			0.003
C67814 (518115)			0.008
C67815 (518116)			0.006
C67816 (518117)			0.003
C67817 (518118)			0.005
C67818 (518119)			0.006
C67819 (518120)			0.004
C67820 (518121)			0.005
C67821 (518122)			0.007
C67822 (518123)			0.004
C67823 (518124)			0.004
C67824 (518125)			0.004
C67825 (518126)			0.003
C67826 (518127)			0.344
C67827 (518128)			0.007
C67828 (518129)			0.006
C67829 (518130)			0.112
C67830 (518131)			0.082
C67831 (518132)			0.012
C67832 (518133)			0.007

Certified By:



**AGAT** Laboratories

# Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
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TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 10, 2019

DATE RECEIVED: Sep 11, 2019

DATE REPORTED: Sep 30, 2019

SAMPLE TYPE: Drill Core

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 10, 2019	DATE RECEIVED: Sep 11, 2019	DATE REPORTED: Sep 30, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
C67801 (518102)		86.52
C67819 (518120)		84.17

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT TIMMINS (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T516705

PROJECT: AGAT00781

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 10, 2019	DATE RECEIVED: Sep 11, 2019	DATE REPORTED: Sep 30, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Sample ID (AGAT ID)	Analyte:	Pass %
	Unit:	%
	RDL:	0.01
C67801 (518102)		95
C67829 (518130)		90

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Ag	518102	< 0.5	< 0.5	0.0%	518116	< 0.5	< 0.5	0.0%	518128	< 0.5	< 0.5	0.0%				
Al	518102	7.45	7.65	2.6%	518116	7.58	7.88	3.9%	518128	7.32	7.53	2.8%				
As	518102	< 1	< 1	0.0%	518116	< 1	< 1	0.0%	518128	2	< 1					
Ba	518102	512	534	4.2%	518116	425	452	6.2%	518128	440	457	3.8%				
Be	518102	0.95	0.91	4.3%	518116	0.84	0.90	6.9%	518128	1.3	1.3	0.0%				
Bi	518102	< 1	< 1	0.0%	518116	< 1	< 1	0.0%	518128	< 1	< 1	0.0%				
Ca	518102	2.48	2.47	0.4%	518116	2.81	2.98	5.9%	518128	2.53	2.57	1.6%				
Cd	518102	< 0.5	< 0.5	0.0%	518116	< 0.5	< 0.5	0.0%	518128	< 0.5	< 0.5	0.0%				
Ce	518102	46	49	6.3%	518116	46	46	0.0%	518128	45	47	4.3%				
Co	518102	19.4	20.3	4.5%	518116	21.7	21.5	0.9%	518128	18.3	18.4	0.5%				
Cr	518102	94.7	96.7	2.1%	518116	97.4	98.9	1.5%	518128	72.1	72.6	0.7%				
Cu	518102	24.1	25.1	4.1%	518116	33.5	35.9	6.9%	518128	37.4	36.5	2.4%				
Fe	518102	4.59	4.73	3.0%	518116	5.05	5.26	4.1%	518128	4.01	4.15	3.4%				
Ga	518102	16	17	6.1%	518116	17	17	0.0%	518128	15	16	6.5%				
In	518102	< 1	< 1	0.0%	518116	< 1	< 1	0.0%	518128	< 1	< 1	0.0%				
K	518102	1.33	1.34	0.7%	518116	0.899	0.927	3.1%	518128	1.37	1.40	2.2%				
La	518102	20	21	4.9%	518116	20	20	0.0%	518128	20	21	4.9%				
Li	518102	16	17	6.1%	518116	17	18	5.7%	518128	18	19	5.4%				
Mg	518102	1.60	1.64	2.5%	518116	1.76	1.84	4.4%	518128	1.37	1.41	2.9%				
Mn	518102	803	832	3.5%	518116	965	1010	4.6%	518128	799	825	3.2%				
Mo	518102	9.6	8.9	7.6%	518116	5.0	5.2	3.9%	518128	5.0	5.9	16.5%				
Na	518102	2.97	2.95	0.7%	518116	3.13	3.30	5.3%	518128	2.94	2.96	0.7%				
Ni	518102	58.3	59.0	1.2%	518116	62.0	62.9	1.4%	518128	53.9	54.2	0.6%				
P	518102	599	634	5.7%	518116	701	729	3.9%	518128	649	695	6.8%				
Pb	518102	< 20	< 20	0.0%	518116	< 20	< 20	0.0%	518128	< 20	< 20	0.0%				
Rb	518102	< 50	< 50	0.0%	518116	< 50	< 50	0.0%	518128	< 50	< 50	0.0%				
S	518102	0.10	0.10	0.0%	518116	0.15	0.16	6.5%	518128	0.11	0.12	8.7%				
Sb	518102	< 1	< 1	0.0%	518116	< 1	< 1	0.0%	518128	< 1	< 1	0.0%				
Sc	518102	18	18	0.0%	518116	20	20	0.0%	518128	16	16	0.0%				
Se	518102	< 10	< 10	0.0%	518116	< 10	< 10	0.0%	518128	< 10	< 10	0.0%				
Sn	518102	< 5	< 5	0.0%	518116	< 5	< 5	0.0%	518128	< 5	< 5	0.0%				



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

Sr	518102	520	540	3.8%	518116	523	551	5.2%	518128	442	447	1.1%				
Ta	518102	< 10	< 10	0.0%	518116	< 10	< 10	0.0%	518128	< 10	< 10	0.0%				
Te	518102	< 10	< 10	0.0%	518116	< 10	< 10	0.0%	518128	< 10	< 10	0.0%				
Th	518102	< 5	< 5	0.0%	518116	< 5	< 5	0.0%	518128	< 5	< 5	0.0%				
Ti	518102	0.37	0.37	0.0%	518116	0.424	0.448	5.5%	518128	0.35	0.35	0.0%				
Tl	518102	< 5	< 5	0.0%	518116	< 5	< 5	0.0%	518128	< 5	< 5	0.0%				
U	518102	< 50	< 50	0.0%	518116	< 50	< 50	0.0%	518128	< 50	< 50	0.0%				
V	518102	124	129	4.0%	518116	142	142	0.0%	518128	113	113	0.0%				
W	518102	< 1	< 1	0.0%	518116	< 1	< 1	0.0%	518128	< 1	< 1	0.0%				
Y	518102	14	15	6.9%	518116	17	16	6.1%	518128	15	15	0.0%				
Zn	518102	90.8	85.5	6.0%	518116	84.7	91.5	7.7%	518128	73.5	75.9	3.2%				
Zr	518102	100	105	4.9%	518116	101	102	1.0%	518128	101	103	2.0%				

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2				REPLICATE #3							
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD				
Au	518102	0.014	0.005		518116	0.006	0.004		518128	0.007	0.009	25.0%				





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.WMG-1a)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Ag					3.03	2.79	92%	90% - 110%							
Al	10.95	10.89	99%	90% - 110%	4.75	4.93	104%	90% - 110%							
Ba	340	329	97%	90% - 110%	216	217	101%	90% - 110%							
Be	2.6	2.7	104%	90% - 110%											
Ca	5.72	5.64	99%	90% - 110%	10	9	94%	90% - 110%							
Ce	122	116	95%	90% - 110%											
Co					191	181	95%	90% - 110%							
Cr					670	564	84%	90% - 110%							
Cu					7120	6958	98%	90% - 110%							
Fe	4.34	4.26	98%	90% - 110%	12.71	12.4	98%	90% - 110%							
Ga	35	33	94%	90% - 110%											
K	1.37	1.45	106%	90% - 110%	0.1021	0.1114	109%	90% - 110%							
La	58	53	92%	90% - 110%	8.47	8.34	98%	90% - 110%							
Li	37	38	101%	90% - 110%											
Mg	0.325	0.308	95%	90% - 110%	7.41	7.87	106%	90% - 110%							
Na	5.267	5.5	104%	90% - 110%	0.112	0.123	110%	90% - 110%							
Ni	9	6	72%	90% - 110%	2480	2252	91%	90% - 110%							
P					731	750	103%	90% - 110%							
Sb					1.8	2.1	115%	90% - 110%							
Sc	1.1	1.1	95%	90% - 110%	21.33	22.17	104%	90% - 110%							
Sr	1191	1122	94%	90% - 110%	39	38	98%	90% - 110%							
Ti	0.172	0.166	97%	90% - 110%	0.419	0.411	98%	90% - 110%							
V	8	8	95%	90% - 110%	158	170	107%	90% - 110%							
Y	119	127	107%	90% - 110%	12.67	13.56	107%	90% - 110%							
Zn	93	96	104%	90% - 110%	112	122	109%	90% - 110%							
Zr					35.7	37.6	105%	90% - 110%							

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.GS4H)										
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits							
Au	6.87	6.34	92%	90% - 110%	5.01	4.65	93%	90% - 110%							



## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00781  
 SAMPLING SITE:

AGAT WORK ORDER: 19T516705  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Levi Azomani

PROJECT: AGAT00788

AGAT WORK ORDER: 19T520831

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 08, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.



## Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

### (200-) Sample Login Weight

DATE SAMPLED: Sep 19, 2019      DATE RECEIVED: Sep 20, 2019      DATE REPORTED: Oct 08, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
C67883 (549758)		2.81
C67884 (549759)		3.31
C67885 (549760)		2.12
C67886 (549761)		0.10
C67887 (549762)		1.03
C67888 (549763)		3.52
C67889 (549764)		3.97
C67890 (549765)		1.80
C67891 (549766)		3.00
C67892 (549767)		0.66
C67893 (549768)		2.12
C67894 (549769)		2.44
C67895 (549770)		2.86
C67896 (549771)		2.33
C67897 (549772)		2.88
C67898 (549773)		2.42
C67899 (549774)		2.42
C67900 (549775)		3.59
C67901 (549776)		3.55

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 19, 2019	DATE RECEIVED: Sep 20, 2019							DATE REPORTED: Oct 08, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
C67883 (549758)	<0.5	6.87	<1	116	0.8	<1	6.08	<0.5	18	40.2	66.9	106	10.6	24	
C67884 (549759)	<0.5	7.11	<1	75	0.6	<1	6.17	<0.5	15	39.2	68.4	73.6	10.0	23	
C67885 (549760)	<0.5	6.07	<1	264	1.2	<1	6.43	<0.5	48	43.0	115	104	9.63	22	
C67886 (549761)	<0.5	7.55	<1	185	0.7	<1	6.43	<0.5	23	39.2	173	107	7.53	21	
C67887 (549762)	<0.5	2.39	<1	106	1.7	<1	3.91	<0.5	35	26.3	109	25.9	4.51	8	
C67888 (549763)	<0.5	7.13	<1	87	0.6	<1	6.26	<0.5	14	42.6	69.6	116	10.7	24	
C67889 (549764)	<0.5	6.89	<1	129	0.8	<1	6.79	<0.5	25	39.9	73.4	69.8	10.2	22	
C67890 (549765)	<0.5	7.09	<1	145	0.9	<1	6.56	<0.5	24	41.2	70.5	66.1	9.97	23	
C67891 (549766)	<0.5	3.63	<1	1280	3.6	<1	10.4	<0.5	247	46.7	610	119	8.40	19	
C67892 (549767)	<0.5	0.12	<1	21	<0.5	<1	31.3	<0.5	<1	0.7	4.5	<0.5	0.23	<5	
C67893 (549768)	<0.5	3.43	<1	1230	3.5	<1	10.2	<0.5	236	46.6	619	112	7.91	18	
C67894 (549769)	<0.5	6.90	<1	115	0.7	<1	7.21	<0.5	19	41.2	71.6	108	9.81	23	
C67895 (549770)	<0.5	6.74	<1	143	1.6	<1	7.23	<0.5	20	38.5	65.1	80.8	9.18	22	
C67896 (549771)	<0.5	3.31	<1	782	2.1	<1	6.86	<0.5	137	55.7	559	72.6	7.22	12	
C67897 (549772)	<0.5	2.58	<1	800	2.3	<1	6.73	<0.5	163	61.6	541	81.3	7.17	11	
C67898 (549773)	<0.5	2.50	<1	800	2.3	<1	6.90	<0.5	158	62.3	563	79.1	7.40	10	
C67899 (549774)	<0.5	2.34	<1	900	2.2	<1	6.58	<0.5	153	64.6	628	70.6	6.85	9	
C67900 (549775)	<0.5	5.51	<1	544	2.1	<1	8.28	<0.5	97	42.1	258	93.2	9.53	21	
C67901 (549776)	<0.5	5.36	<1	688	1.9	<1	8.50	<0.5	125	42.3	299	107	9.17	21	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 19, 2019	DATE RECEIVED: Sep 20, 2019					DATE REPORTED: Oct 08, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
C67883 (549758)	<1	0.29	6	17	3.01	1500	5.9	2.50	52.7	571	<20	<50	0.14	<1	
C67884 (549759)	<1	0.24	4	19	3.16	1470	4.4	2.68	56.7	481	<20	<50	0.09	<1	
C67885 (549760)	<1	0.37	20	31	4.34	1410	4.1	2.62	131	931	<20	<50	0.16	<1	
C67886 (549761)	<1	0.43	9	10	4.45	1330	1.9	2.35	105	892	<20	<50	0.09	<1	
C67887 (549762)	<1	0.16	16	40	3.19	763	6.4	1.35	159	318	<20	<50	0.05	<1	
C67888 (549763)	<1	0.24	4	20	3.70	1530	3.9	2.32	59.5	534	<20	<50	0.12	<1	
C67889 (549764)	<1	0.28	9	20	3.59	1640	4.2	2.39	74.3	804	<20	<50	0.10	<1	
C67890 (549765)	<1	0.31	9	26	3.28	1500	5.1	3.04	68.7	804	<20	<50	0.09	<1	
C67891 (549766)	<1	2.58	108	22	8.47	1540	6.6	0.89	297	3180	<20	<50	0.30	<1	
C67892 (549767)	<1	0.02	2	2	1.83	126	1.9	0.05	<0.5	93	<20	<50	<0.01	<1	
C67893 (549768)	<1	2.39	99	23	8.23	1470	8.2	0.78	293	3100	<20	<50	0.31	<1	
C67894 (549769)	<1	0.32	7	20	3.20	1630	3.0	2.31	62.1	633	<20	<50	0.14	<1	
C67895 (549770)	<1	0.37	7	31	2.96	1480	3.3	2.73	63.2	702	<20	<50	0.10	<1	
C67896 (549771)	<1	1.36	60	25	12.3	1270	3.4	0.94	658	2120	<20	<50	0.17	<1	
C67897 (549772)	<1	1.18	72	20	13.8	1290	2.9	0.60	775	2350	<20	<50	0.17	<1	
C67898 (549773)	<1	1.16	70	15	14.8	1280	3.0	0.55	813	2290	<20	<50	0.18	<1	
C67899 (549774)	<1	1.35	67	13	14.9	1210	3.1	0.50	875	2220	<20	<50	0.14	<1	
C67900 (549775)	<1	1.04	42	30	5.60	1700	4.9	2.27	173	2430	<20	<50	0.21	<1	
C67901 (549776)	<1	1.22	55	33	5.51	1520	3.1	1.70	154	2300	<20	<50	0.18	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 19, 2019	DATE RECEIVED: Sep 20, 2019					DATE REPORTED: Oct 08, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
C67883 (549758)	46	<10	<5	118	<10	<10	<5	0.82	<5	<50	346	<1	37	112	
C67884 (549759)	46	<10	<5	129	<10	<10	<5	0.76	<5	<50	333	<1	34	105	
C67885 (549760)	43	<10	<5	311	<10	<10	<5	0.92	<5	<50	319	<1	36	99.9	
C67886 (549761)	36	<10	<5	241	<10	<10	<5	0.80	<5	<50	249	<1	23	90.6	
C67887 (549762)	17	<10	<5	189	<10	<10	<5	0.51	<5	<50	139	<1	23	48.9	
C67888 (549763)	49	<10	<5	130	<10	<10	<5	0.80	<5	<50	356	<1	34	111	
C67889 (549764)	45	<10	<5	195	<10	<10	<5	0.82	<5	<50	335	<1	34	113	
C67890 (549765)	47	<10	<5	265	<10	<10	<5	0.78	<5	<50	347	<1	35	108	
C67891 (549766)	27	<10	<5	1330	<10	<10	<5	1.47	<5	<50	333	<1	31	90.0	
C67892 (549767)	1	<10	<5	68	<10	<10	<5	0.01	<5	<50	3.9	<1	2	3.2	
C67893 (549768)	26	<10	<5	1220	<10	<10	<5	1.44	<5	<50	309	<1	29	85.2	
C67894 (549769)	46	<10	<5	205	<10	<10	<5	0.75	<5	<50	340	<1	33	110	
C67895 (549770)	45	<10	<5	270	<10	<10	<5	0.72	<5	<50	324	<1	40	103	
C67896 (549771)	23	<10	<5	669	<10	<10	<5	1.08	<5	<50	231	<1	23	73.7	
C67897 (549772)	19	<10	<5	762	<10	<10	<5	1.11	<5	<50	227	<1	21	70.2	
C67898 (549773)	19	<10	<5	753	<10	<10	<5	1.12	<5	<50	222	<1	20	71.9	
C67899 (549774)	20	<10	<5	731	<10	<10	<5	1.19	<5	<50	204	<1	19	68.5	
C67900 (549775)	38	<10	<5	703	<10	<10	<5	1.16	<5	<50	340	<1	35	109	
C67901 (549776)	38	<10	<5	670	<10	<10	<5	1.23	<5	<50	341	<1	33	101	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 19, 2019      DATE RECEIVED: Sep 20, 2019      DATE REPORTED: Oct 08, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
C67883 (549758)				31
C67884 (549759)				23
C67885 (549760)				62
C67886 (549761)				91
C67887 (549762)				56
C67888 (549763)				26
C67889 (549764)				33
C67890 (549765)				40
C67891 (549766)				135
C67892 (549767)				<5
C67893 (549768)				115
C67894 (549769)				32
C67895 (549770)				52
C67896 (549771)				113
C67897 (549772)				88
C67898 (549773)				104
C67899 (549774)				119
C67900 (549775)				140
C67901 (549776)				150

Comments: RDL - Reported Detection Limit  
 549758-549776 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:





## Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
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 CANADA L4Z 1N9  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 19, 2019      DATE RECEIVED: Sep 20, 2019      DATE REPORTED: Oct 08, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte: Au	Unit: ppm	RDL: 0.001
C67883 (549758)		0.005	
C67884 (549759)		0.004	
C67885 (549760)		0.003	
C67886 (549761)		0.325	
C67887 (549762)		0.004	
C67888 (549763)		0.006	
C67889 (549764)		0.002	
C67890 (549765)		0.002	
C67891 (549766)		0.003	
C67892 (549767)		0.002	
C67893 (549768)		0.004	
C67894 (549769)		0.003	
C67895 (549770)		0.002	
C67896 (549771)		0.002	
C67897 (549772)		0.003	
C67898 (549773)		0.002	
C67899 (549774)		0.002	
C67900 (549775)		0.004	
C67901 (549776)		0.003	

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

5623 McADAM ROAD  
 MISSISSAUGA, ONTARIO  
 CANADA L4Z 1N9  
 TEL (905)501-9998  
 FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

## Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 19, 2019	DATE RECEIVED: Sep 20, 2019	DATE REPORTED: Oct 08, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL:
C67887 (549762)	81

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

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CANADA L4Z 1N9  
TEL (905)501-9998  
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<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 19, 2019

DATE RECEIVED: Sep 20, 2019

DATE REPORTED: Oct 08, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
C67883 (549758)	96

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	549758	< 0.5	< 0.5	0.0%	549774	< 0.5	< 0.5	0.0%								
Al	549758	6.87	6.87	0.0%	549774	2.34	2.31	1.3%								
As	549758	< 1	< 1	0.0%	549774	< 1	< 1	0.0%								
Ba	549758	116	115	0.9%	549774	900	891	1.0%								
Be	549758	0.8	0.8	0.0%	549774	2.2	2.2	0.0%								
Bi	549758	< 1	< 1	0.0%	549774	< 1	< 1	0.0%								
Ca	549758	6.08	6.07	0.2%	549774	6.58	6.54	0.6%								
Cd	549758	< 0.5	< 0.5	0.0%	549774	< 0.5	< 0.5	0.0%								
Ce	549758	18	18	0.0%	549774	153	153	0.0%								
Co	549758	40.2	39.9	0.7%	549774	64.6	63.3	2.0%								
Cr	549758	66.9	64.1	4.3%	549774	628	618	1.6%								
Cu	549758	106	114	7.3%	549774	70.6	69.9	1.0%								
Fe	549758	10.6	10.5	0.9%	549774	6.85	6.84	0.1%								
Ga	549758	24	23	4.3%	549774	9	9	0.0%								
In	549758	< 1	< 1	0.0%	549774	< 1	< 1	0.0%								
K	549758	0.29	0.29	0.0%	549774	1.35	1.33	1.5%								
La	549758	6	6	0.0%	549774	67	67	0.0%								
Li	549758	17	18	5.7%	549774	13	13	0.0%								
Mg	549758	3.01	3.00	0.3%	549774	14.9	14.8	0.7%								
Mn	549758	1500	1480	1.3%	549774	1210	1200	0.8%								
Mo	549758	5.9	5.1	14.5%	549774	3.1	2.8	10.2%								
Na	549758	2.50	2.56	2.4%	549774	0.50	0.50	0.0%								
Ni	549758	52.7	52.5	0.4%	549774	875	873	0.2%								
P	549758	571	576	0.9%	549774	2220	2010	9.9%								
Pb	549758	< 20	< 20	0.0%	549774	< 20	< 20	0.0%								
Rb	549758	< 50	< 50	0.0%	549774	< 50	< 50	0.0%								
S	549758	0.14	0.14	0.0%	549774	0.14	0.14	0.0%								
Sb	549758	< 1	< 1	0.0%	549774	< 1	< 1	0.0%								
Sc	549758	46	47	2.2%	549774	20	20	0.0%								
Se	549758	< 10	< 10	0.0%	549774	< 10	< 10	0.0%								
Sn	549758	< 5	< 5	0.0%	549774	< 5	< 5	0.0%								



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

Sr	549758	118	120	1.7%	549774	731	733	0.3%									
Ta	549758	< 10	< 10	0.0%	549774	< 10	< 10	0.0%									
Te	549758	< 10	< 10	0.0%	549774	< 10	< 10	0.0%									
Th	549758	< 5	< 5	0.0%	549774	< 5	< 5	0.0%									
Ti	549758	0.82	0.82	0.0%	549774	1.19	1.11	7.0%									
Tl	549758	< 5	< 5	0.0%	549774	< 5	< 5	0.0%									
U	549758	< 50	< 50	0.0%	549774	< 50	< 50	0.0%									
V	549758	346	346	0.0%	549774	204	203	0.5%									
W	549758	< 1	< 1	0.0%	549774	< 1	< 1	0.0%									
Y	549758	37	37	0.0%	549774	19	19	0.0%									
Zn	549758	112	111	0.9%	549774	68.5	68.4	0.1%									
Zr	549758	31	30	3.3%	549774	119	111	7.0%									

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	REPLICATE #1				REPLICATE #2												
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD									
Au	549758	0.005	0.004	22.2%	549774	0.0025	0.0026	3.9%									



CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Levi Azomani

**(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish**

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.WMG-1a)									
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits						
Ag					3.03	2.86	94%	90% - 110%						
Al	10.95	11.03	101%	90% - 110%	4.75	4.86	102%	90% - 110%						
Ba	340	334	98%	90% - 110%	216	216	100%	90% - 110%						
Be	2.6	2.9	111%	90% - 110%										
Ca	5.72	5.94	104%	90% - 110%	10	10	99%	90% - 110%						
Ce	122	132	108%	90% - 110%										
Co					191	178	93%	90% - 110%						
Cr					670	607	90%	90% - 110%						
Cu					7120	7554	106%	90% - 110%						
Fe	4.34	4.26	98%	90% - 110%	12.71	12.07	95%	90% - 110%						
Ga	35	38	109%	90% - 110%										
K	1.37	1.42	103%	90% - 110%	0.1021	0.1095	107%	90% - 110%						
La	58	56	96%	90% - 110%	8.47	7.89	93%	90% - 110%						
Li	37	37	99%	90% - 110%										
Mg	0.325	0.31	95%	90% - 110%	7.41	7.56	102%	90% - 110%						
Na	5.267	5.487	104%	90% - 110%	0.112	0.122	109%	90% - 110%						
Ni					2480	2236	90%	90% - 110%						
P					731	711	97%	90% - 110%						
Sc	1.1	1.1	102%	90% - 110%	21.33	22.54	106%	90% - 110%						
Sr	1191	1150	97%	90% - 110%	39	38	98%	90% - 110%						
Ti	0.172	0.16	93%	90% - 110%	0.419	0.395	94%	90% - 110%						
V	8	9	109%	90% - 110%	158	171	108%	90% - 110%						
Y	119	122	102%	90% - 110%	12.67	13.6	107%	90% - 110%						
Zn	93	98	106%	90% - 110%	112	118	106%	90% - 110%						
Zr					35.7	37.2	104%	90% - 110%						

**(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)**

Parameter	CRM #1 (ref.GS6F)				CRM #2 (ref.GSP7M)									
	Expect	Actual	Recovery	Limits	Expect	Actual	Recovery	Limits						
Au	6.87	6.45	94%	90% - 110%	0.725	0.711	98%	90% - 110%						

## Method Summary

CLIENT NAME: GOLDCORP BORDEN LIMITED

AGAT WORK ORDER: 19T520831

PROJECT: AGAT00788

ATTENTION TO: Levi Azomani

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE



CLIENT NAME: GOLDCORP BORDEN LIMITED  
217 MARTEL ROAD  
CHAPLEAU, ON P0M 1K0  
705-864-0377

ATTENTION TO: Craig Yuill

PROJECT: AGAT00785

AGAT WORK ORDER: 19T521020

SOLID ANALYSIS REVIEWED BY: Sherin Moussa, Senior Technician

DATE REPORTED: Oct 04, 2019

PAGES (INCLUDING COVER): 13

Should you require any information regarding this analysis please contact your client services representative at (905) 501-9998

\*NOTES

All samples are stored at no charge for 90 days. Please contact the lab if you require additional sample storage time.





## Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (200-) Sample Login Weight

DATE SAMPLED: Sep 20, 2019      DATE RECEIVED: Sep 20, 2019      DATE REPORTED: Oct 04, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Sample Login Weight
	Unit:	kg
	RDL:	0.01
C67865 (551111)		2.18
C67866 (551112)		0.10
C67867 (551113)		2.29
C67868 (551114)		3.46
C67869 (551115)		3.54
C67870 (551116)		3.78
C67871 (551117)		3.35
C67872 (551118)		0.84
C67873 (551119)		3.45
C67874 (551120)		3.61
C67875 (551121)		3.61
C67876 (551122)		3.51
C67877 (551123)		2.44
C67878 (551124)		3.60
C67879 (551125)		3.42
C67880 (551126)		2.22
C67881 (551127)		2.24
C67882 (551128)		1.21

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

5623 McADAM ROAD  
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CANADA L4Z 1N9  
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FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2019	DATE RECEIVED: Sep 20, 2019							DATE REPORTED: Oct 04, 2019				SAMPLE TYPE: Drill Core			
Analyte:	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cu	Fe	Ga	
Unit:	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	
RDL:	0.5	0.01	1	1	0.5	1	0.01	0.5	1	0.5	0.5	0.5	0.01	5	
C67865 (551111)	<0.5	8.01	<1	471	2.4	<1	6.36	<0.5	72	17.9	84.6	60.1	4.47	19	
C67866 (551112)	<0.5	7.37	<1	192	0.8	<1	6.48	<0.5	22	38.8	191	103	8.04	22	
C67867 (551113)	<0.5	5.09	<1	523	2.8	<1	9.38	<0.5	133	46.2	384	93.6	8.94	21	
C67868 (551114)	<0.5	4.95	<1	478	2.5	<1	8.38	<0.5	115	50.6	374	98.6	9.73	22	
C67869 (551115)	<0.5	7.44	<1	53	0.7	<1	6.22	<0.5	13	39.8	85.5	57.6	10.4	25	
C67870 (551116)	<0.5	7.12	<1	164	0.6	<1	6.08	<0.5	15	40.0	66.1	107	10.6	25	
C67871 (551117)	<0.5	6.98	<1	50	0.8	<1	5.86	<0.5	13	37.3	65.6	59.1	10.4	24	
C67872 (551118)	<0.5	0.10	<1	26	<0.5	<1	29.5	<0.5	<1	0.6	11.3	<0.5	0.23	<5	
C67873 (551119)	<0.5	6.71	<1	28	0.7	<1	6.35	<0.5	12	36.3	64.4	117	9.85	22	
C67874 (551120)	<0.5	6.93	<1	98	0.9	<1	5.41	<0.5	13	37.4	72.8	71.3	10.7	25	
C67875 (551121)	<0.5	7.19	<1	119	1.0	<1	5.30	<0.5	14	39.6	60.5	89.2	10.7	26	
C67876 (551122)	<0.5	6.96	<1	310	1.2	<1	4.96	<0.5	15	37.7	35.5	64.8	11.2	26	
C67877 (551123)	<0.5	6.81	<1	297	0.7	<1	5.57	<0.5	13	38.9	54.3	78.6	10.5	24	
C67878 (551124)	<0.5	7.00	<1	297	0.7	<1	5.76	<0.5	13	38.5	58.3	79.6	10.8	25	
C67879 (551125)	<0.5	7.20	<1	327	0.8	<1	6.32	<0.5	13	38.3	70.9	103	10.6	25	
C67880 (551126)	<0.5	6.89	<1	177	1.0	<1	6.35	<0.5	79	35.4	190	80.0	7.77	22	
C67881 (551127)	<0.5	6.83	<1	84	4.0	<1	6.19	<0.5	13	39.6	70.7	83.2	10.4	23	
C67882 (551128)	<0.5	7.31	<1	57	0.6	<1	6.15	<0.5	12	40.1	71.7	112	10.7	24	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

5623 McADAM ROAD  
MISSISSAUGA, ONTARIO  
CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2019	DATE RECEIVED: Sep 20, 2019					DATE REPORTED: Oct 04, 2019					SAMPLE TYPE: Drill Core				
Analyte:	In	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	
Unit:	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
RDL:	1	0.01	2	1	0.01	1	0.5	0.01	0.5	10	20	50	0.01	1	
C67865 (551111)	<1	1.26	34	21	1.86	874	4.1	2.89	40.9	1630	<20	<50	0.11	<1	
C67866 (551112)	<1	0.45	9	11	4.39	1320	2.1	2.31	110	915	<20	<50	0.08	<1	
C67867 (551113)	<1	1.05	62	38	6.49	1610	5.2	1.63	271	2720	<20	<50	0.17	<1	
C67868 (551114)	<1	1.03	52	36	6.38	1720	5.6	1.41	244	2480	<20	<50	0.18	<1	
C67869 (551115)	<1	0.27	4	13	3.34	1600	3.9	2.00	62.6	480	<20	<50	0.09	<1	
C67870 (551116)	<1	0.43	4	15	3.18	1580	3.1	2.10	51.8	562	<20	<50	0.16	<1	
C67871 (551117)	<1	0.22	4	13	3.06	1710	3.5	2.10	53.7	484	<20	<50	0.11	<1	
C67872 (551118)	<1	0.01	<2	2	1.59	102	2.4	0.04	1.2	74	<20	<50	<0.01	<1	
C67873 (551119)	<1	0.19	4	13	2.67	1650	3.3	2.06	50.0	437	<20	<50	0.21	<1	
C67874 (551120)	<1	0.41	4	11	3.20	1510	3.9	2.61	51.8	489	<20	<50	0.10	<1	
C67875 (551121)	<1	0.47	4	18	3.20	1520	3.1	2.61	48.3	525	<20	<50	0.16	<1	
C67876 (551122)	<1	1.04	4	22	3.00	1490	2.2	2.51	39.2	548	<20	<50	0.16	<1	
C67877 (551123)	<1	0.73	4	17	3.06	1450	2.4	2.01	47.5	507	<20	<50	0.14	1	
C67878 (551124)	<1	0.74	4	18	3.12	1480	2.8	2.10	47.1	531	<20	<50	0.15	1	
C67879 (551125)	<1	0.73	4	17	3.26	1470	3.7	1.89	55.4	517	<20	<50	0.13	<1	
C67880 (551126)	<1	0.37	35	10	3.97	1140	3.3	2.50	134	1090	<20	<50	0.27	<1	
C67881 (551127)	<1	0.67	4	37	3.11	1460	3.4	2.37	61.7	455	<20	<50	0.12	<1	
C67882 (551128)	<1	0.24	4	13	3.29	1560	3.8	2.00	57.7	525	<20	<50	0.17	<1	

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### (201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2019	DATE RECEIVED: Sep 20, 2019					DATE REPORTED: Oct 04, 2019					SAMPLE TYPE: Drill Core				
Analyte:	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	
Unit:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
RDL:	1	10	5	1	10	10	5	0.01	5	50	0.5	1	1	0.5	
C67865 (551111)	16	<10	<5	565	<10	<10	<5	0.45	<5	<50	145	<1	20	67.3	
C67866 (551112)	35	<10	<5	249	<10	<10	<5	0.83	<5	<50	249	<1	23	94.7	
C67867 (551113)	25	<10	<5	1050	<10	<10	<5	1.22	<5	<50	265	<1	31	106	
C67868 (551114)	32	<10	<5	788	<10	<10	<5	1.24	<5	<50	299	<1	34	115	
C67869 (551115)	47	<10	<5	126	<10	<10	<5	0.81	<5	<50	339	<1	32	118	
C67870 (551116)	47	<10	<5	103	<10	<10	<5	0.83	<5	<50	334	<1	35	115	
C67871 (551117)	45	<10	<5	117	<10	<10	<5	0.80	<5	<50	335	<1	33	113	
C67872 (551118)	1	<10	<5	69	<10	<10	<5	<0.01	<5	<50	6.5	<1	2	5.2	
C67873 (551119)	43	<10	<5	112	<10	<10	<5	0.77	<5	<50	312	<1	31	108	
C67874 (551120)	47	<10	<5	78	<10	<10	<5	0.84	<5	<50	346	<1	35	111	
C67875 (551121)	49	<10	<5	70	<10	<10	<5	0.86	<5	<50	364	<1	36	108	
C67876 (551122)	48	<10	<5	73	<10	<10	<5	0.91	<5	<50	371	<1	37	96.0	
C67877 (551123)	46	<10	<5	77	<10	<10	<5	0.82	<5	<50	349	<1	34	109	
C67878 (551124)	46	<10	<5	81	<10	<10	<5	0.85	<5	<50	346	<1	34	109	
C67879 (551125)	46	<10	<5	119	<10	<10	<5	0.81	<5	<50	334	<1	33	107	
C67880 (551126)	33	<10	<5	268	<10	<10	<5	0.62	<5	<50	249	<1	27	102	
C67881 (551127)	49	<10	<5	171	<10	<10	<5	0.73	<5	<50	341	<1	32	112	
C67882 (551128)	47	<10	<5	149	<10	<10	<5	0.83	<5	<50	344	<1	34	118	

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AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

DATE SAMPLED: Sep 20, 2019      DATE RECEIVED: Sep 20, 2019      DATE REPORTED: Oct 04, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:	Value
	Zr	ppm	5	
C67865 (551111)				121
C67866 (551112)				98
C67867 (551113)				170
C67868 (551114)				163
C67869 (551115)				28
C67870 (551116)				31
C67871 (551117)				26
C67872 (551118)				<5
C67873 (551119)				23
C67874 (551120)				27
C67875 (551121)				29
C67876 (551122)				28
C67877 (551123)				25
C67878 (551124)				24
C67879 (551125)				21
C67880 (551126)				61
C67881 (551127)				36
C67882 (551128)				26

Comments: RDL - Reported Detection Limit  
 551111-551128 As, Sb values may be low due to digestion losses.  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

DATE SAMPLED: Sep 20, 2019      DATE RECEIVED: Sep 20, 2019      DATE REPORTED: Oct 04, 2019      SAMPLE TYPE: Drill Core

Sample ID (AGAT ID)	Analyte:	Unit:	RDL:
	Au	ppm	0.001
C67865 (551111)			0.002
C67866 (551112)			0.320
C67867 (551113)			0.003
C67868 (551114)			0.002
C67869 (551115)			0.002
C67870 (551116)			0.003
C67871 (551117)			0.002
C67872 (551118)			0.001
C67873 (551119)			0.002
C67874 (551120)			0.002
C67875 (551121)			0.002
C67876 (551122)			0.002
C67877 (551123)			0.002
C67878 (551124)			0.002
C67879 (551125)			0.002
C67880 (551126)			0.002
C67881 (551127)			0.002
C67882 (551128)			0.004

Comments: RDL - Reported Detection Limit  
 Analysis performed at AGAT Toronto (unless marked by \*)

Certified By:



## Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

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CANADA L4Z 1N9  
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FAX (905)501-0589  
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CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

### Sieving - % Passing (Crushing)

DATE SAMPLED: Sep 20, 2019

DATE RECEIVED: Sep 20, 2019

DATE REPORTED: Oct 04, 2019

SAMPLE TYPE: Drill Core

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
C67865 (551111)	88

Comments: RDL - Reported Detection Limit

Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:



# Certificate of Analysis

AGAT WORK ORDER: 19T521020

PROJECT: AGAT00785

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CANADA L4Z 1N9  
TEL (905)501-9998  
FAX (905)501-0589  
<http://www.agatlabs.com>

CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

## Sieving - % Passing (Pulverizing)

DATE SAMPLED: Sep 20, 2019	DATE RECEIVED: Sep 20, 2019	DATE REPORTED: Oct 04, 2019	SAMPLE TYPE: Drill Core
----------------------------	-----------------------------	-----------------------------	-------------------------

Analyte:	Pass %
Unit:	%
Sample ID (AGAT ID)	RDL: 0.01
C67865 (551111)	92

Comments: RDL - Reported Detection Limit  
Analysis performed at AGAT Thunder Bay (unless marked by \*)

Certified By:





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	REPLICATE #1				REPLICATE #2											
	Sample ID	Original	Replicate	RPD	Sample ID	Original	Replicate	RPD								
Ag	551111	< 0.5	< 0.5	0.0%	551126	< 0.5	< 0.5	0.0%								
Al	551111	8.01	7.97	0.5%	551126	6.89	6.89	0.0%								
As	551111	< 1	< 1	0.0%	551126	< 1	< 1	0.0%								
Ba	551111	471	465	1.3%	551126	177	179	1.1%								
Be	551111	2.35	2.19	7.0%	551126	1.0	1.0	0.0%								
Bi	551111	< 1	< 1	0.0%	551126	< 1	< 1	0.0%								
Ca	551111	6.36	6.06	4.8%	551126	6.35	6.30	0.8%								
Cd	551111	< 0.5	< 0.5	0.0%	551126	< 0.5	< 0.5	0.0%								
Ce	551111	72	63	13.3%	551126	79	79	0.0%								
Co	551111	17.9	16.3	9.4%	551126	35.4	36.2	2.2%								
Cr	551111	84.6	90.4	6.6%	551126	190	189	0.5%								
Cu	551111	60.1	51.9	14.6%	551126	80.0	79.7	0.4%								
Fe	551111	4.47	4.08	9.1%	551126	7.77	7.71	0.8%								
Ga	551111	19	19	0.0%	551126	22	22	0.0%								
In	551111	< 1	< 1	0.0%	551126	< 1	< 1	0.0%								
K	551111	1.26	1.24	1.6%	551126	0.37	0.37	0.0%								
La	551111	34	30	12.5%	551126	35	35	0.0%								
Li	551111	21	20	4.9%	551126	10	10	0.0%								
Mg	551111	1.86	1.73	7.2%	551126	3.97	3.98	0.3%								
Mn	551111	874	793	9.7%	551126	1140	1140	0.0%								
Mo	551111	4.12	4.77	14.6%	551126	3.3	3.4	3.0%								
Na	551111	2.89	2.88	0.3%	551126	2.50	2.47	1.2%								
Ni	551111	40.9	40.0	2.2%	551126	134	136	1.5%								
P	551111	1630	1430	13.1%	551126	1090	1120	2.7%								
Pb	551111	< 20	< 20	0.0%	551126	< 20	< 20	0.0%								
Rb	551111	< 50	< 50	0.0%	551126	< 50	< 50	0.0%								
S	551111	0.11	0.11	0.0%	551126	0.27	0.27	0.0%								
Sb	551111	< 1	< 1	0.0%	551126	< 1	< 1	0.0%								
Sc	551111	16	14	13.3%	551126	33	34	3.0%								
Se	551111	< 10	< 10	0.0%	551126	< 10	< 10	0.0%								
Sn	551111	< 5	< 5	0.0%	551126	< 5	< 5	0.0%								





CLIENT NAME: GOLDCORP BORDEN LIMITED

ATTENTION TO: Craig Yuill

(201-070) Goldcorp Borden - 4 Acid Digest - Metals Package, ICP-OES finish

Parameter	CRM #1 (ref.SY-4)													
	Expect	Actual	Recovery	Limits										
Al	10.95	10.84	99%	90% - 110%										
Ba	340	325	95%	90% - 110%										
Be	2.6	2.7	103%	90% - 110%										
Ca	5.72	5.6	98%	90% - 110%										
Ce	122	118	97%	90% - 110%										
Fe	4.34	4.22	97%	90% - 110%										
Ga	35	38	109%	90% - 110%										
K	1.37	1.47	107%	90% - 110%										
La	58	54	93%	90% - 110%										
Li	37	39	104%	90% - 110%										
Mg	0.325	0.298	92%	90% - 110%										
Na	5.267	5.281	100%	90% - 110%										
Pb	10	7	73%	90% - 110%										
Sc	1.1	1.1	99%	90% - 110%										
Sr	1191	1144	96%	90% - 110%										
Ti	0.172	0.162	94%	90% - 110%										
V	8	8	95%	90% - 110%										
Y	119	125	105%	90% - 110%										
Zn	93	96	103%	90% - 110%										

(202-552) Fire Assay - Trace Au, ICP-OES finish (50g charge) (ppm)

Parameter	CRM #1 (ref.GS4H)													
	Expect	Actual	Recovery	Limits										
Au	5.01	4.92	98%	90% - 110%										

## Method Summary

 CLIENT NAME: GOLDCORP BORDEN LIMITED  
 PROJECT: AGAT00785  
 SAMPLING SITE:

 AGAT WORK ORDER: 19T521020  
 ATTENTION TO: Craig Yuill  
 SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Solid Analysis			
Sample Login Weight	MIN-12009		BALANCE
Ag	MIN-200-12034		ICP/OES
Al	MIN-200-12034		ICP/OES
As	MIN-200-12034		ICP/OES
Ba	MIN-200-12034		ICP/OES
Be	MIN-200-12034		ICP/OES
Bi	MIN-200-12034		ICP/OES
Ca	MIN-200-12034		ICP/OES
Cd	MIN-200-12034		ICP/OES
Ce	MIN-200-12034		ICP/OES
Co	MIN-200-12034		ICP/OES
Cr	MIN-200-12034		ICP/OES
Cu	MIN-200-12034		ICP/OES
Fe	MIN-200-12034		ICP/OES
Ga	MIN-200-12034		ICP/OES
In	MIN-200-12034		ICP/OES
K	MIN-200-12034		ICP/OES
La	MIN-200-12034		ICP/OES
Li	MIN-200-12034		ICP/OES
Mg	MIN-200-12034		ICP/OES
Mn	MIN-200-12034		ICP/OES
Mo	MIN-200-12034		ICP/OES
Na	MIN-200-12034		ICP/OES
Ni	MIN-200-12034		ICP/OES
P	MIN-200-12034		ICP/OES
Pb	MIN-200-12034		ICP/OES
Rb	MIN-200-12034		ICP/OES
S	MIN-200-12034		ICP/OES
Sb	MIN-200-12034		ICP/OES
Sc	MIN-200-12034		ICP/OES
Se	MIN-200-12034		ICP/OES
Sn	MIN-200-12034		ICP/OES
Sr	MIN-200-12034		ICP/OES
Ta	MIN-200-12034		ICP/OES
Te	MIN-200-12034		ICP/OES
Th	MIN-200-12034		ICP/OES
Ti	MIN-200-12034		ICP/OES
Tl	MIN-200-12034		ICP/OES
U	MIN-200-12034		ICP/OES
V	MIN-200-12034		ICP/OES
W	MIN-200-12034		ICP/OES
Y	MIN-200-12034		ICP/OES
Zn	MIN-200-12034		ICP/OES
Zr	MIN-200-12034		ICP/OES
Au	MIN-12006, MIN-12004		ICP/OES
Pass %			BALANCE



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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To: **GOLDCORP BORDEN LIMITED**  
**4315 GOLDMINE ROAD**  
**SOUTH PORCUPINE ON P0N 1H0**

Page: 1  
Total # Pages: 2 (A - D)  
Plus Appendix Pages  
Finalized Date: 17-FEB-2019  
Account: BDQEFN

**CERTIFICATE SD19024011**

Project: ALS00072  
P.O. No.: 4570018367  
This report is for 2 Soil samples submitted to our lab in Sudbury, ON, Canada on 30-JAN-2019.

The following have access to data associated with this certificate:

BORDEN ASSAYS  
CHRIS OSIOWY

THOMAS BISSIG

TOM BOKENFOHR

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION
AuME-ST44	50g Super Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**

Colin Ramshaw, Vancouver Laboratory Manager



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 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
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Page: 2 - A  
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Project: ALS00072

<b>CERTIFICATE OF ANALYSIS SD19024011</b>
---

Sample Description	Method	Analyte	Units	LOD	WEI-21	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44			
					Recvd Wt.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
					kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
					0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
A72921					1.76	0.0009	0.023	0.39	0.72	10	41.1	0.10	0.026	2.40	0.030	33.8	4.82	25.0	0.229
A72922					1.82	0.0002	0.018	0.28	0.43	10	31.8	0.08	0.016	1.90	0.020	26.2	3.05	12.55	0.465



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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-FEB-2019  
 Account: BDQEFN

Project: ALS00072

<b>CERTIFICATE OF ANALYSIS SD19024011</b>
---

Sample Description	Method	Analyte	Units	LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44			
					Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
					ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
					0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
A72921					12.70	1.150	1.580	0.059	0.100	0.004	0.006	0.09	16.70	3.8	0.66	114.5	2.69	0.031	0.364
A72922					6.98	0.750	1.175	0.050	0.075	<0.004	<0.005	0.07	12.75	3.4	0.49	78.1	0.76	0.020	0.344



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**4315 GOLDMINE ROAD**  
**SOUTH PORCUPINE ON P0N 1H0**

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-FEB-2019  
 Account: BDQEFN

Project: ALS00072

<b>CERTIFICATE OF ANALYSIS SD19024011</b>
---

	Method Analyte Units LOD	AuME-ST44 Ni ppm 0.04	AuME-ST44 P % 0.001	AuME-ST44 Pb ppm 0.005	AuME-ST44 Pd ppm 0.001	AuME-ST44 Pt ppm 0.001	AuME-ST44 Rb ppm 0.005	AuME-ST44 Re ppm 0.001	AuME-ST44 S % 0.01	AuME-ST44 Sb ppm 0.005	AuME-ST44 Sc ppm 0.005	AuME-ST44 Se ppm 0.1	AuME-ST44 Sn ppm 0.01	AuME-ST44 Sr ppm 0.01	AuME-ST44 Ta ppm 0.005	AuME-ST44 Te ppm 0.01
A72921		14.40	0.128	2.03	<0.001	0.001	5.90	<0.001	0.03	0.062	1.390	0.1	0.31	45.8	<0.005	<0.01
A72922		8.74	0.112	1.285	<0.001	<0.001	4.39	<0.001	0.03	0.031	0.990	0.1	0.13	43.1	<0.005	<0.01





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To: **GOLDCORP BORDEN LIMITED**  
**4315 GOLDMINE ROAD**  
**SOUTH PORCUPINE ON P0N 1H0**

Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 17-FEB-2019  
 Account: BDQEFN

Project: ALS00072

<b>CERTIFICATE OF ANALYSIS SD19024011</b>
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	Method Analyte Units LOD	AuME-ST44 Th ppm 0.002	AuME-ST44 Ti % 0.001	AuME-ST44 Tl ppm 0.002	AuME-ST44 U ppm 0.005	AuME-ST44 V ppm 0.1	AuME-ST44 W ppm 0.001	AuME-ST44 Y ppm 0.003	AuME-ST44 Zn ppm 0.1	AuME-ST44 Zr ppm 0.01
A72921		3.07	0.042	0.057	0.433	20.0	0.221	4.88	21.4	3.94
A72922		2.00	0.028	0.036	0.332	12.8	0.231	3.76	11.8	2.66





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 North Vancouver BC V7H 0A7  
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To: **GOLDCORP BORDEN LIMITED**  
**4315 GOLDMINE ROAD**  
**SOUTH PORCUPINE ON P0N 1H0**

Page: 1  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 27-FEB-2019  
 Account: BDQEFN

**CERTIFICATE SD19041110**

Project: ALS00082  
 P.O. No.: 4570035380  
 This report is for 7 Soil samples submitted to our lab in Sudbury, ON, Canada on 30-JAN-2019.  
 The following have access to data associated with this certificate:

BORDEN ASSAYS CHRIS OSIOWY	THOMAS BISSIG	TOM BOKENFOHR
-------------------------------	---------------	---------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
SCR-41	Screen to -180um and save both

ANALYTICAL PROCEDURES	
ALS CODE	DESCRIPTION
AuME-ST44	50g Super Trace Au + Multi Element PKG

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*

**Signature:**   
 Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 27-FEB-2019  
 Account: BDQEFN

Project: ALS00082

**CERTIFICATE OF ANALYSIS SD19041110**

Sample Description	Method Analyte Units LOD	WEI-21	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm
		0.02	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01	0.001	0.003	0.001	0.01	0.005
S09614		5.31	0.0003	0.014	0.39	0.43	10	39.9	0.10	0.020	2.35	0.021	21.1	3.46	20.0	0.268
S09615		5.94	0.0117	0.029	1.58	0.42	10	118.5	0.60	0.036	1.32	0.029	30.1	21.5	69.3	1.860
S09616		1.37	0.0056	0.035	1.35	0.69	10	84.8	0.15	0.007	1.69	0.076	6.44	17.15	16.10	0.700
S09617		1.26	0.0023	0.030	1.20	1.32	10	104.0	0.25	0.032	0.73	0.036	38.9	14.15	50.2	0.697
S09618		4.72	0.0012	0.017	0.45	0.70	10	35.4	0.14	0.038	0.27	0.021	25.6	7.80	34.8	0.317
S09619		0.66	0.0010	0.022	0.81	0.68	10	56.9	0.14	0.033	0.59	0.030	22.2	10.45	35.0	0.432
S09620		2.21	0.0063	0.022	0.73	1.98	10	61.3	0.20	0.055	0.32	0.021	35.3	10.20	27.2	1.045

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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 North Vancouver BC V7H 0A7  
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To: **GOLDCORP BORDEN LIMITED**  
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Page: 2 - B  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 27-FEB-2019  
 Account: BDQEFN

Project: ALS00082

<b>CERTIFICATE OF ANALYSIS SD19041110</b>
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Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	
		Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm
		0.01	0.001	0.004	0.005	0.002	0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
S09614		10.90	0.740	1.395	0.039	0.076	0.005	0.005	0.08	10.85	3.7	0.85	104.5	0.93	0.022	0.193
S09615		77.2	3.39	6.99	0.126	0.117	<0.004	0.024	0.28	14.95	33.3	1.55	570	0.33	0.111	0.069
S09616		72.9	2.03	3.01	0.069	0.039	<0.004	0.010	0.06	4.62	6.8	0.73	419	0.93	0.118	0.022
S09617		64.7	2.02	3.43	0.080	0.056	0.004	0.010	0.13	24.3	9.0	0.81	274	0.77	0.082	0.127
S09618		38.6	1.000	1.625	0.068	0.066	0.009	0.005	0.05	13.15	4.2	0.31	156.5	0.23	0.018	0.146
S09619		47.0	1.600	2.76	0.072	0.062	0.007	0.011	0.08	11.75	5.1	0.50	238	0.58	0.081	0.055
S09620		64.5	1.450	2.87	0.076	0.042	0.018	0.008	0.07	18.10	7.4	0.41	193.0	0.45	0.018	0.166



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**SOUTH PORCUPINE ON P0N 1H0**

Page: 2 - C  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 27-FEB-2019  
 Account: BDQEFN

Project: ALS00082

<b>CERTIFICATE OF ANALYSIS SD19041110</b>
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Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	
		Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005	0.1	0.01	0.01	0.005	0.01
S09614		11.35	0.059	1.585	<0.001	0.001	4.68	<0.001	0.02	0.020	1.205	0.1	0.15	21.5	0.010	<0.01
S09615		43.6	0.093	1.230	0.008	0.005	16.60	<0.001	0.04	0.026	8.53	0.2	0.23	28.3	0.010	0.01
S09616		46.2	0.034	1.055	0.002	<0.001	3.67	0.001	0.08	0.020	6.17	0.2	0.11	22.2	0.010	0.02
S09617		54.2	0.068	2.70	0.005	0.003	8.98	<0.001	0.02	0.026	5.28	0.2	0.19	18.30	0.010	0.02
S09618		40.0	0.063	2.19	0.001	0.001	3.56	<0.001	0.02	0.016	2.25	0.1	0.14	12.00	0.010	0.01
S09619		38.3	0.053	1.870	<0.001	0.001	5.84	<0.001	0.02	0.017	5.42	0.1	0.18	14.40	0.010	0.01
S09620		33.4	0.065	2.86	0.001	0.001	8.82	<0.001	0.02	0.019	2.93	0.1	0.18	10.60	0.010	0.02

\*\*\*\*\* See Appendix Page for comments regarding this certificate \*\*\*\*\*



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Page: 2 - D  
 Total # Pages: 2 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 27-FEB-2019  
 Account: BDQEFN

Project: ALS00082

<b>CERTIFICATE OF ANALYSIS SD19041110</b>
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Sample Description	Method Analyte Units LOD	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	AuME-ST44	
		Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.002	0.001	0.002	0.005	0.1	0.001	0.003	0.1	0.01
S09614		2.42	0.038	0.046	0.282	15.8	0.685	3.71	11.7	3.38
S09615		5.00	0.149	0.100	0.246	82.6	0.393	9.00	38.4	3.84
S09616		0.626	0.083	0.050	0.103	47.2	3.04	5.83	24.8	1.22
S09617		5.25	0.071	0.094	0.325	45.9	2.86	8.49	27.1	2.76
S09618		3.24	0.036	0.048	0.288	21.2	0.788	5.80	13.4	3.18
S09619		2.65	0.062	0.052	0.249	43.1	4.37	6.57	20.3	2.87
S09620		3.75	0.063	0.094	0.318	32.3	0.216	7.06	21.5	2.49



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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 27-FEB-2019  
Account: BDQEFN

Project: ALS00082

**CERTIFICATE OF ANALYSIS SD19041110**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.  
LOG-22 SCR-41 WEI-21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.  
AuME-ST44



Report Number: SD19309984

Report Date: 23-12-2019

Received Date:05-12-2019

Batch Name: ALS00089

Analyte Sy	Au	Ag	Al	As	B	Ba	Be	Bi	Ca
Unit Symb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
Detection l	0.0001	0.001	0.01	0.01	10	0.5	0.01	0.001	0.01
Analysis M	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4
Z39733	0.0009	0.101	1.92	1.42	10	155	0.24	0.026	2.96
Z39735	0.0009	0.108	2.14	1.13	<10	199.5	0.29	0.023	2.45
Z39845	0.0026	0.11	1.46	1.76	<10	263	0.21	0.065	1.33
Z39846	0.0105	0.871	0.95	2.91	10	57.1	0.29	0.934	1.32
Z39847	0.0233	2.32	1.02	4.24	10	21.3	0.17	2.88	1.35
Z39848	0.0022	0.204	1.33	2.48	10	130.5	0.32	0.061	3.93
Z39849	0.0011	0.055	1.19	1.84	10	110.5	0.24	0.058	3.26
Z39850	0.001	0.07	1.22	1.61	10	114	0.25	0.061	3.37
Z39736	0.0013	0.092	0.8	3.47	10	87.4	0.21	0.158	2.81
Z39737	0.0012	0.19	0.92	1.73	10	50.6	0.16	0.054	1.5
Z39738	0.0007	0.301	1.08	1.96	10	66.6	0.19	0.056	1.63
Z39739	0.0012	0.23	1.21	3.6	10	174.5	0.28	0.064	3.59
Z39740	0.0021	0.046	1.16	7.08	10	48.7	0.13	0.037	1.51
Z39741	0.0007	0.039	0.87	1.54	10	84	0.19	0.041	4.33
Z39742	0.0019	0.055	1.47	1.56	10	191.5	0.26	0.039	2.59
Z39743	0.0024	0.042	1.47	0.55	<10	105.5	0.14	0.022	1.43
Z39744	0.0008	0.02	1.24	0.61	10	34.7	0.33	0.028	3.09
Z39745	0.0009	0.036	0.51	2.29	10	53.2	0.19	0.136	2.98
Z39746	0.001	0.034	0.52	2.7	10	53.5	0.17	0.132	2.97

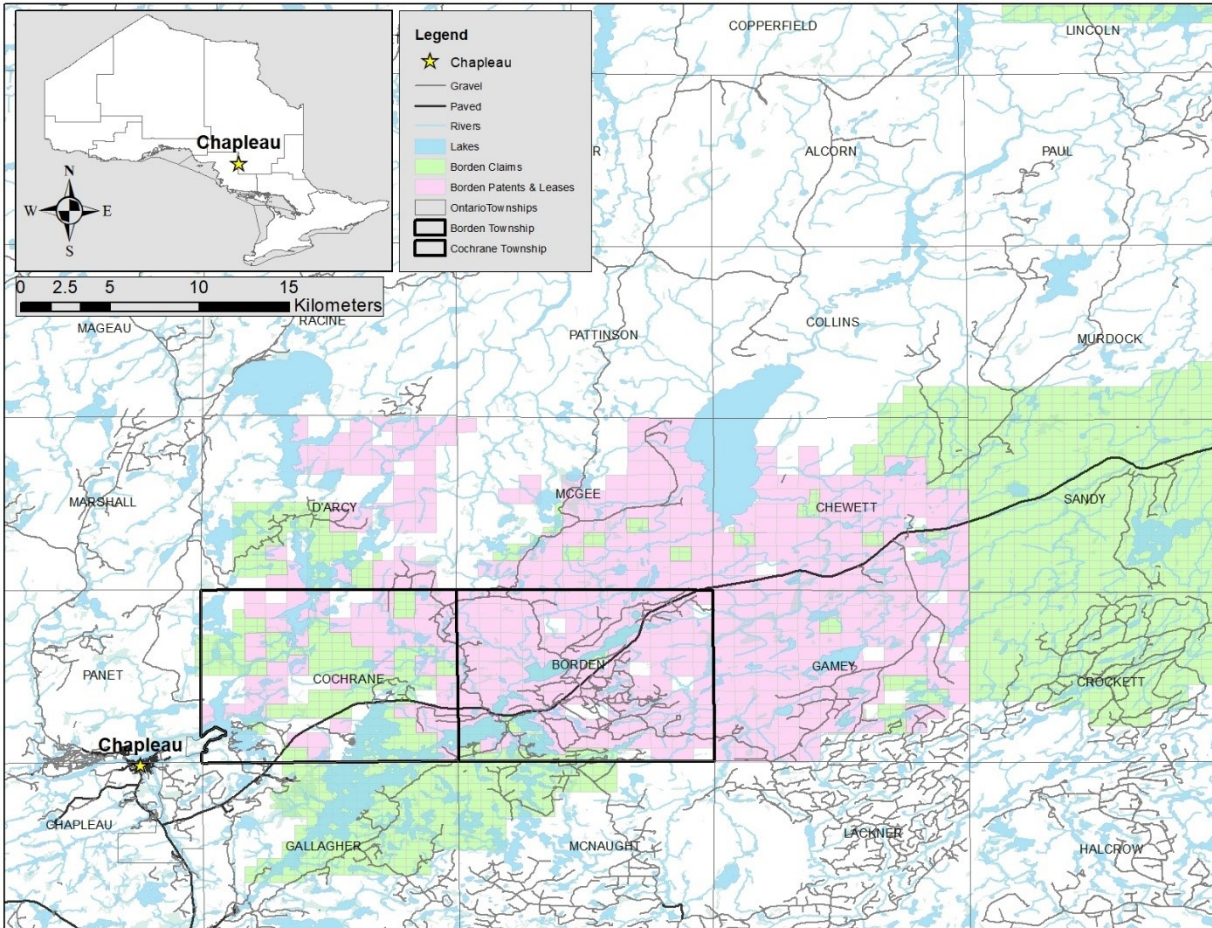
Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm
0.001	0.003	0.001	0.01	0.005	0.01	0.001	0.004	0.005	0.002
AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4
0.046	38.3	13.7	57.8	0.442	54.3	2.65	4.93	0.087	0.101
0.04	46.9	15.45	57	0.503	52	2.38	5.15	0.08	0.123
0.04	37.2	16.7	75	3.87	50.7	3.05	5.69	0.092	0.123
0.205	32.5	13.05	35.1	1.14	377	2.99	3.31	0.064	0.13
0.496	28.8	18.5	16.25	1.775	951	5.69	3.58	0.067	0.146
0.075	60	16.6	69.2	0.933	53	2.7	4.37	0.094	0.063
0.051	31.5	24.8	63.7	1.715	59.2	2.59	4.08	0.085	0.116
0.055	33.1	24.8	68	1.8	57.8	2.64	4.21	0.092	0.123
0.052	34.6	10.6	35.5	1.39	37.8	1.52	3.06	0.066	0.087
0.031	21.6	11.9	62.9	0.729	49.6	2.39	3.07	0.083	0.048
0.036	21.9	13.8	80.1	1.185	65.8	2.73	3.89	0.084	0.055
0.062	58.6	16.4	49.7	1.03	55.9	2.46	4.57	0.09	0.078
0.032	15.35	36.8	261	1.005	32.6	3.04	2.57	0.05	0.021
0.035	36.1	8.64	26.1	0.469	26	1.43	2.77	0.062	0.1
0.041	63.1	12.85	31.9	1.075	47.8	2.09	4.76	0.093	0.108
0.042	16.15	25.5	88.7	1.955	133	3.24	5.06	0.104	0.043
0.031	20.5	8.77	38.3	0.331	18.9	1.47	2.98	0.062	0.082
0.029	28.7	5.27	18.45	0.691	14.6	0.98	1.855	0.056	0.091
0.031	29.3	5.07	17.7	0.677	13.9	1.01	1.77	0.054	0.089

Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm
0.004	0.005	0.01	0.002	0.1	0.01	0.1	0.01	0.001	0.002
AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4
<0.004	0.011	0.3	19.95	9.1	0.96	326	6.04	0.164	0.312
<0.004	0.013	0.45	24.6	12.7	1.05	282	7.85	0.205	0.199
<0.004	0.016	0.59	18.75	14.6	1.08	361	5.92	0.074	0.092
0.005	0.017	0.32	17.05	10.6	0.8	241	3.49	0.052	0.348
<0.004	0.025	0.5	13.3	10.7	0.83	258	3.31	0.045	0.274
0.008	0.01	0.26	29.9	10.2	1.26	433	14.1	0.085	0.762
<0.004	0.015	0.19	16	7.2	1.41	362	9.58	0.135	0.123
<0.004	0.015	0.2	16.75	7.6	1.46	375	10.35	0.136	0.129
0.004	0.01	0.19	17.3	8.8	0.97	229	1.64	0.046	0.196
<0.004	0.011	0.12	10.25	5.9	0.52	319	16.3	0.106	0.389
<0.004	0.017	0.17	10.45	8.7	0.65	362	21.4	0.114	0.373
0.007	0.015	0.38	29	12.2	1.29	331	1.05	0.06	0.333
<0.004	0.008	0.11	7.13	6.1	4.21	348	0.56	0.032	0.037
0.008	0.009	0.17	18.55	7.9	1.1	202	0.42	0.058	0.238
<0.004	0.01	0.41	33.1	11.6	0.88	278	0.75	0.109	0.32
<0.004	0.017	0.35	8.1	8.7	1.61	358	0.71	0.164	0.022
<0.004	0.009	0.08	9.96	6.5	1.07	201	0.45	0.119	0.063
<0.004	0.007	0.11	14.3	5.9	0.97	162.5	0.61	0.03	0.361
<0.004	0.006	0.11	14.65	5.9	0.98	161	0.59	0.031	0.318

Ni	P	Pb	Pd	Pt	Rb	Re	S	Sb	Sc
ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
0.04	0.001	0.005	0.001	0.001	0.005	0.001	0.01	0.005	0.005
AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4
45.1	0.078	2.73	0.001	0.001	14.65	0.001	0.07	0.079	3.67
36.9	0.088	2.85	0.002	0.001	18.65	0.001	0.05	0.059	3.71
50.1	0.068	2.33	0.001	0.001	25.3	0.001	0.09	0.088	6.26
32.2	0.093	4.19	<0.001	0.001	22.6	0.001	0.86	0.057	2.6
18.8	0.117	6.66	<0.001	0.001	23.4	0.001	2.91	0.061	2.77
43.6	0.101	5.03	0.001	0.001	21	0.001	0.03	0.12	3.15
58.6	0.076	2.66	0.002	0.001	14.45	0.002	0.05	0.09	6.58
59.7	0.077	2.68	<0.001	0.001	14.75	0.002	0.05	0.095	6.72
32.4	0.067	4.2	0.001	<0.001	16.6	<0.001	0.03	0.049	3.08
23.8	0.07	2.97	0.001	0.001	6.22	0.002	0.09	0.135	4.78
29.4	0.065	3.26	0.001	0.001	10.45	0.003	0.09	0.2	5.6
46.5	0.113	5.98	0.002	0.001	28.1	<0.001	0.03	0.079	3.61
488	0.032	2.48	0.007	0.002	7.81	<0.001	0.06	0.049	2.47
24.2	0.066	3.08	0.001	0.001	13.7	<0.001	0.02	0.042	2.35
33.3	0.083	5.66	0.001	0.001	26.6	<0.001	0.05	0.044	3.13
115.5	0.041	1.295	0.001	0.001	13.6	0.001	0.11	0.032	10.05
27.8	0.05	1.59	0.002	0.001	5.27	<0.001	0.03	0.043	5.89
17.95	0.064	3.28	0.001	0.001	7.47	<0.001	0.06	0.035	1.995
17.3	0.064	3.23	0.001	<0.001	7.06	<0.001	0.07	0.034	1.925

Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	
0.1	0.01	0.01	0.01	0.005	0.01	0.002	0.001	0.002	0.005	0.1
AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4
0.2	0.59	107	<0.005		0.01	4.01	0.107	0.084	1.075	49.1
0.2	0.67	75.9	<0.005		0.01	3.81	0.105	0.108	0.566	48.3
0.1	0.37	54.5	<0.005		0.01	2.97	0.127	0.18	0.43	64.9
1	0.69	31.6	<0.005		0.04	2.97	0.08	0.173	0.428	27.9
2.7	1.3	21.2	<0.005		0.12	2.02	0.079	0.263	0.445	17
0.1	0.64	124	<0.005		0.02	5.52	0.093	0.159	0.907	44.4
0.2	0.44	125	<0.005		0.01	3.24	0.094	0.105	0.429	54.9
0.2	0.51	126	<0.005		0.01	3.37	0.098	0.105	0.449	56.9
0.1	0.25	52.5	<0.005		0.02	3.85	0.069	0.115	0.399	31.5
0.2	0.61	34	<0.005	<0.01		2.01	0.067	0.035	0.222	31.1
0.2	0.72	37.2	<0.005		0.01	2.12	0.079	0.061	0.24	36.9
0.2	0.38	109.5	<0.005		0.02	6.23	0.111	0.201	0.604	46.8
0.2	0.13	28.8	<0.005		0.01	1.86	0.043	0.059	0.228	25.7
0.1	0.23	67.5	<0.005	<0.01		3.66	0.065	0.095	0.45	28.1
0.2	0.4	99.8	<0.005		0.01	8.99	0.108	0.155	0.936	40.4
0.9	0.2	31.1	<0.005		0.01	1.375	0.136	0.05	0.243	101
0.2	0.19	45	<0.005	<0.01		2.02	0.073	0.048	0.249	38.8
0.2	0.18	49.7	<0.005		0.01	3.68	0.046	0.055	0.556	20.4
0.1	0.18	48.1	<0.005		0.01	3.64	0.048	0.052	0.589	19.4


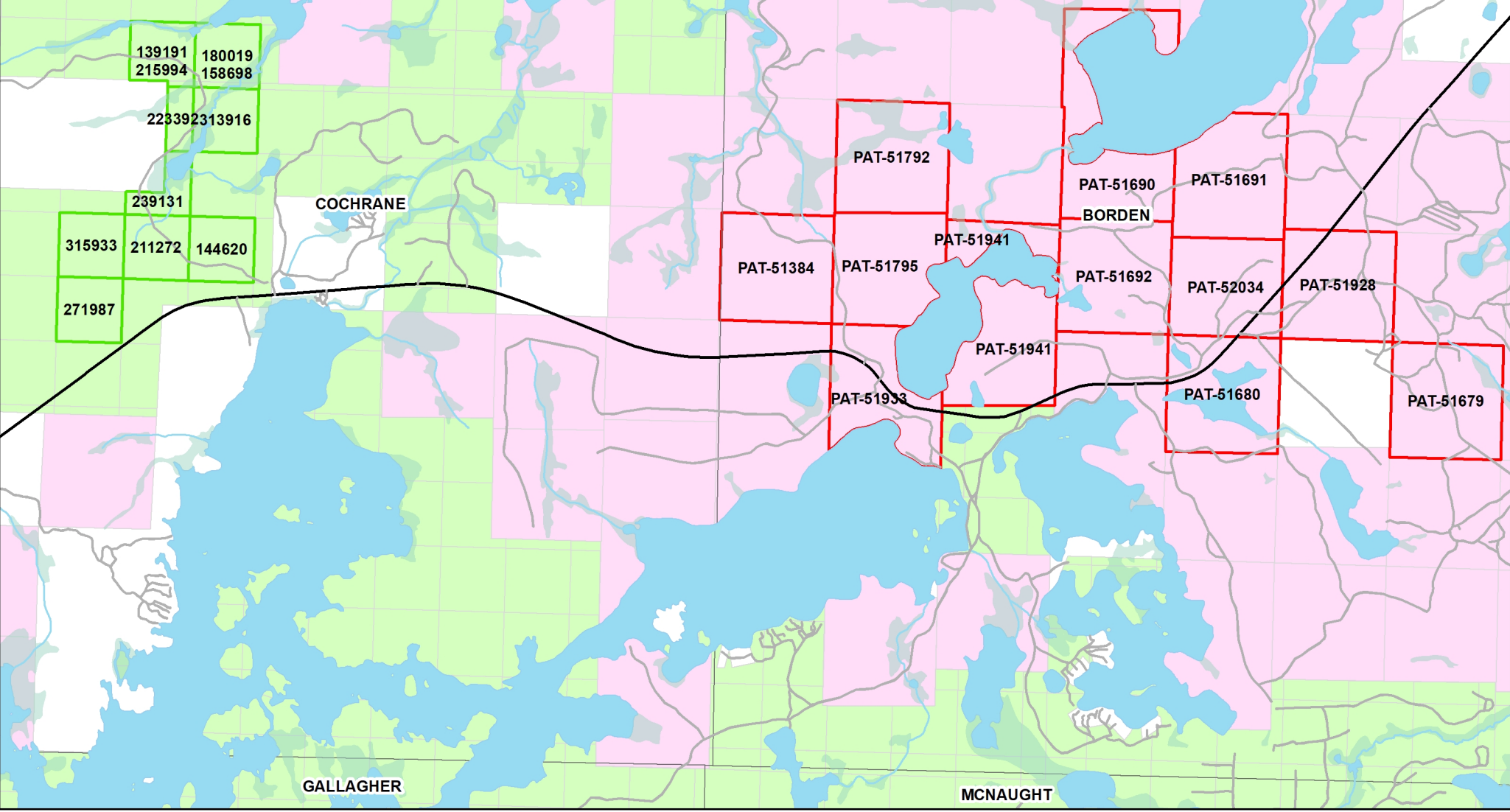
W	Y	Zn	Zr
ppm	ppm	ppm	ppm
0.001	0.003	0.1	0.01
AuME-ST4	AuME-ST4	AuME-ST4	AuME-ST4
1.385	6.42	40.3	6.03
14.2	8.34	45.1	4.53
1.885	5.46	54.7	5.26
9.59	7.91	60.9	6.11
9.77	11	109	6.84
8.59	7.38	49.1	4.88
80.3	8.71	37.4	6.77
75.6	8.82	38.1	7.09
1.915	5.75	39.1	5.03
20.5	6.5	30.1	2.19
22.2	6.87	52.1	2.3
1.775	7.37	253	5.01
5.09	2.73	114.5	1.51
0.458	5.17	34.7	5.37
1.07	7.15	47.7	5.58
0.555	6.71	51.6	1.89
0.694	5.35	49.6	3.94
0.266	4.76	19.6	4.11
0.218	4.61	18.5	4.06



**Legend**

- Program Patents
- Program Claims & Boundary Claims
- Borden Patents
- Borden Claims
- Ontario Townships
- Paved
- Gravel
- Lakes
- Rivers

0    0.5    1    2  
Km





**Legend**

- Sonic & RC 2018 Collars
- Sonic 2019 Collars
- Program Patents
- Program Claims
- Borden Patents
- Borden Claims
- Ontario Townships
- Paved
- Gravel
- Lakes
- Rivers

0 0.375 0.75 1.5 Km

