BC Geological Survey
Assessment Report
39495

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Drilling; IP; Aeromagnetic Survey

TOTAL COST: $2,179,620.23

AUTHOR(S): Cheyenne Sica; Bonnie Spence; David Cox, Geoffrey McMaster

SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): 1640915-201902 (2019-Jun-25); 1640915-201903 (2020-Apr

YEAR OF WORK: 2020

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5837335 (2020/MAY/26); 5837336 (2020/MAY/26);

PROPERTY NAME: MAX-K2

CLAIM NAME(S) (on which the work was done): 532537, 532538, 532540, 532542, 532635, 551895, 1076910, 1076911, 1076912, 1076913, 1076914, 1076915, 1076916, 1076917

COMMODITIES SOUGHT: Gold, Copper, Silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093N/ 194

MINING DIVISION: Omineca

NTS/BCGS: 093K, 093O, 093J, 093K UTM Zone 10

LATITUDE: 54 ° 55 ' 30 " **LONGITUDE:** -124 ° 3 ' 16.8 " **(at centre of work)**

OWNER(S):
1) JAMA Holdings Inc.
2) Thompson Creek Metals Company Inc

MAILING ADDRESS:
200-299 VICTORIA STREET, PRINCE GEORGE, BC
V2L 5B8, CANADA

OPERATOR(S) [who paid for the work]:
1) Thompson Creek Metals Company Inc
2)

MAILING ADDRESS:
200-299 VICTORIA STREET, PRINCE GEORGE, BC
V2L 5B8, CANADA

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):
Alteration: K-Feldspar, Biotite, Actinolite, Epidote, Calcite, Chlorite, Albite, Pyrite
Classification: Porphyry, Hydrothermal, Epigenetic
Type: L03: Alkalic Porphyry Au-Cu

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
20530, 21736, 21873, 22271, 29353, 31625, 31939, 32790, 34935, 35072, 36936, 37613, 39175

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TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic			
Electromagnetic			
Induced Polarization	21 line-km	532538,532542,532543,551895,107[illegible]	$135,843.75
Radiometric			
Seismic			
Other			
Airborne	963 line-km	532537, 532538, 532540, 532542, 53[illegible]	$41,474.48
GEOCHEMICAL (number of samples analysed for...)			
Soil			
Silt			
Rock			
Other			
DRILLING (total metres; number of holes, size)			
Core	5441.0m; 11 diamond drill holes, NQ	532538, 532540	$1,804,069.00
Non-core			
RELATED TECHNICAL			
Sampling/assaying	3265 samples	532538, 532540	$198,233.00
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
PREPARATORY / PHYSICAL			
Line/grid (kilometres)			
Topographic/Photogrammetric (scale, area)			
Legal surveys (scale, area)			
Road, local access (kilometres)/trail			
Trench (metres)			
Underground dev. (metres)			
Other			
		TOTAL COST:	2,179,620.23

BRITISH COLUMBIA

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: THOMPSON CREEK METALS COMPANY INC. (283374)
Submitter: THOMPSON CREEK METALS COMPANY INC. (283374)
Recorded: 2021/MAY/28
Effective: 2021/MAY/28
D/E Date: 2021/MAY/28

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **5837335**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological, Geophysical, PAC Withdrawal (up to 30% of technical work required)

Work Start Date: 2020/MAY/26
Work Stop Date: 2020/OCT/20
Total Value of Work: $ 1872959.56
Mine Permit No: MX-13-302

Summary of the work value:

Title Number	Claim Name	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
530480	NEWCOPPER WEST	2006/MAR/24	2023/AUG/15	2026/MAR/18	946	464.44	$ 24054.51	$ 0.00
532537	MAX COPPER	2006/APR/18	2023/AUG/15	2026/MAR/18	946	464.44	$ 24054.14	$ 0.00
532538	MAX COPPER 2	2006/APR/18	2023/AUG/15	2026/MAR/18	946	464.61	$ 24062.95	$ 0.00
532540	MAX COPPER 3	2006/APR/18	2023/AUG/15	2026/MAR/18	946	464.78	$ 24071.96	$ 0.00
532541	MAX COPPER 4	2006/APR/18	2023/AUG/15	2026/MAR/18	946	445.90	$ 23094.13	$ 0.00
532542	MAX COPPER 5	2006/APR/18	2023/AUG/15	2026/MAR/18	946	371.80	$ 19256.03	$ 0.00
532543	MAX COPPER 6	2006/APR/18	2023/AUG/15	2026/MAR/18	946	334.60	$ 17329.62	$ 0.00
532635	MAX COPPER 7	2006/APR/19	2023/AUG/15	2026/MAR/18	946	446.14	$ 23106.25	$ 0.00
532638	MAX COPPER 8	2006/APR/19	2023/AUG/15	2026/MAR/18	946	222.95	$ 11546.83	$ 0.00
551895	MAX COPPER SOUTH	2007/FEB/13	2023/AUG/15	2026/MAR/18	946	464.93	$ 24079.66	$ 0.00
842877		2011/JAN/12	2023/AUG/15	2026/MAR/18	946	445.70	$ 23083.58	$ 0.00
842878		2011/JAN/12	2023/AUG/15	2026/MAR/18	946	278.56	$ 14427.26	$ 0.00
512884		2005/MAY/18	2025/MAR/14	2028/JAN/13	1035	369.63	$ 20961.86	$ 0.00
512887		2005/MAY/18	2025/MAR/14	2028/JAN/13	1035	295.84	$ 16777.34	$ 0.00
512888		2005/MAY/18	2025/MAR/14	2028/JAN/13	1035	369.98	$ 20981.54	$ 0.00
512890		2005/MAY/18	2025/MAR/14	2028/JAN/13	1035	296.12	$ 16788.17	$ 0.00
512891		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	554.45	$ 22277.74	$ 0.00
512897		2005/MAY/18	2025/MAR/14	2028/JAN/13	1035	444.34	$ 25191.24	$ 0.00
512907		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	424.90	$ 17072.58	$ 0.00
512909		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	351.09	$ 14106.94	$ 0.00
512913		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	665.24	$ 26729.15	$ 0.00
512919		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	444.32	$ 17858.17	$ 0.00
512921		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	518.37	$ 20834.95	$ 0.00
512923		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	332.43	$ 13361.37	$ 0.00

512924		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	665.17	$ 26735.16	$ 0.00
512925		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	73.96	$ 2972.74	$ 0.00
512927		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	406.70	$ 16346.41	$ 0.00
512930		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	480.65	$ 19318.82	$ 0.00
512931		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	480.34	$ 19306.48	$ 0.00
512932		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	92.34	$ 3711.49	$ 0.00
512933		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	517.13	$ 31141.38	$ 0.00
512934		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	554.33	$ 22280.42	$ 0.00
512935		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	443.67	$ 17832.67	$ 0.00
512936		2005/MAY/18	2024/MAR/14	2026/MAR/18	734	720.56	$ 28961.63	$ 0.00
512937		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	517.35	$ 31154.15	$ 0.00
512938		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	462.14	$ 27829.45	$ 0.00
512939		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	462.14	$ 27829.39	$ 0.00
512940		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	462.13	$ 27829.33	$ 0.00
512941		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	665.85	$ 40097.00	$ 0.00
512942		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	554.88	$ 33414.12	$ 0.00
512943		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	370.07	$ 22285.25	$ 0.00
512944		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	369.86	$ 22272.73	$ 0.00
512945		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	462.32	$ 27840.77	$ 0.00
512960		2005/MAY/18	2023/MAR/14	2026/MAR/18	1100	203.41	$ 12249.42	$ 0.00
521164	MILL 1	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	332.89	$ 13377.78	$ 0.00
521165	MILL 2	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	443.91	$ 17839.27	$ 0.00
521177	MILL 3	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	444.09	$ 17846.67	$ 0.00
521178	MILL 4	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	277.54	$ 11153.50	$ 0.00
521179	MILL 5	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	462.76	$ 18596.84	$ 0.00
521180	MILL 6	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	370.23	$ 14878.28	$ 0.00
521181	MILL 7	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	351.72	$ 14134.58	$ 0.00
521182	MILL 8	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	444.45	$ 17861.13	$ 0.00
521183	MILL 9	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	370.37	$ 14884.27	$ 0.00
521184	MILL10	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	296.30	$ 11907.49	$ 0.00
521185	MILL 11	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	444.47	$ 17862.02	$ 0.00
521186	MILL 12	2005/OCT/14	2025/MAR/14	2028/JAN/13	1035	444.50	$ 25202.35	$ 0.00
521187	MILL 13	2005/OCT/14	2023/MAR/14	2028/JAN/13	1766	407.60	$ 39414.20	$ 0.00
521189	MILL 14	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	370.63	$ 14894.64	$ 0.00
521190	MILL 15	2005/OCT/14	2025/MAR/14	2028/JAN/13	1035	463.04	$ 26253.60	$ 0.00
521191	MILL 16	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.04	$ 18608.17	$ 0.00
521192	MILL 17	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	370.43	$ 14886.56	$ 0.00
521193	MILL 18	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	370.62	$ 14894.20	$ 0.00
521194	MILL 19	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.28	$ 18617.74	$ 0.00
521195	MILL 20	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.28	$ 18617.74	$ 0.00
521196	MILL 21	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	444.63	$ 17868.49	$ 0.00
521197	MILL 22	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	444.64	$ 17868.61	$ 0.00
521198	MILL 23	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.38	$ 18621.72	$ 0.00
521199	MILL 24	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.37	$ 18621.68	$ 0.00
521200	MILL 25	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.38	$ 18621.80	$ 0.00
521201	MILL 26	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	185.35	$ 7448.73	$ 0.00
521202	MILL 27	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.05	$ 17885.09	$ 0.00
521203	MILL 28	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.05	$ 17885.17	$ 0.00
521204	MILL 29	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.05	$ 17885.17	$ 0.00
521205	MILL 30	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.05	$ 17885.25	$ 0.00
521206	MILL 31	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	463.57	$ 18629.35	$ 0.00
521207	MILL 32	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	370.85	$ 14903.48	$ 0.00
521208	MILL 33	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.21	$ 17891.56	$ 0.00
521209	MILL 34	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.21	$ 17891.60	$ 0.00
521210	MILL 35	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	445.21	$ 17891.72	$ 0.00
521212	MILL 36	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	333.91	$ 13420.74	$ 0.00
521213	MILL 37	2005/OCT/14	2024/MAR/14	2026/MAR/18	734	166.95	$ 6710.35	$ 0.00
524891	ARM	2006/JAN/08	2024/MAR/14	2026/MAR/18	734	463.04	$ 18602.25	$ 0.00
524892	STRONG	2006/JAN/08	2024/MAR/14	2026/MAR/18	734	463.37	$ 18615.71	$ 0.00
579598		2008/MAR/28	2023/MAR/14	2026/MAR/18	1100	295.75	$ 17809.94	$ 0.00
579599		2008/MAR/28	2023/MAR/14	2026/MAR/18	1100	295.63	$ 17802.45	$ 0.00
579600		2008/MAR/28	2023/MAR/14	2026/MAR/18	1100	369.69	$ 22262.36	$ 0.00
579602		2008/MAR/28	2023/MAR/14	2026/MAR/18	1100	369.53	$ 22252.99	$ 0.00
580741		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	443.03	$ 26678.93	$ 0.00
580742		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	443.03	$ 26678.88	$ 0.00

580743		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	406.15	$ 24457.93	$ 0.00
580744		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.71	$ 27803.54	$ 0.00
580745		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.70	$ 27803.13	$ 0.00
580746		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.46	$ 27788.90	$ 0.00
580747		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.70	$ 27803.15	$ 0.00
580748		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.46	$ 27788.85	$ 0.00
580749		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.46	$ 27788.75	$ 0.00
580750		2008/APR/08	2023/MAR/14	2026/MAR/18	1100	461.70	$ 27803.06	$ 0.00
595146		2008/DEC/01	2024/MAR/14	2026/MAR/18	734	443.63	$ 17824.95	$ 0.00
595163		2008/DEC/01	2024/MAR/14	2026/MAR/18	734	147.88	$ 5941.65	$ 0.00
677107	FURB	2009/DEC/01	2024/MAR/14	2026/MAR/18	734	462.42	$ 18580.18	$ 0.00
677785		2009/DEC/02	2024/MAR/14	2026/MAR/18	734	147.80	$ 5938.62	$ 0.00
678524		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	464.02	$ 18644.12	$ 0.00
678527		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	464.00	$ 18643.61	$ 0.00
678536		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	389.75	$ 15660.05	$ 0.00
678564		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	464.01	$ 18644.06	$ 0.00
678583		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	464.03	$ 18644.53	$ 0.00
678588		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	464.27	$ 18654.40	$ 0.00
678603		2009/DEC/03	2024/MAR/14	2026/MAR/18	734	55.66	$ 2236.54	$ 0.00
679483		2009/DEC/05	2024/MAR/14	2026/MAR/18	734	461.95	$ 18560.95	$ 0.00
679484		2009/DEC/05	2025/MAR/14	2028/JAN/13	1035	221.70	$ 12571.76	$ 0.00
679485		2009/DEC/05	2024/MAR/14	2026/MAR/18	734	350.94	$ 14100.72	$ 0.00
679505		2009/DEC/05	2024/MAR/14	2026/MAR/18	734	369.23	$ 14835.76	$ 0.00
679506		2009/DEC/05	2024/MAR/14	2026/MAR/18	734	443.13	$ 17804.76	$ 0.00
679509		2009/DEC/05	2024/MAR/14	2026/MAR/18	734	462.18	$ 18570.50	$ 0.00
896789	MILL 9	2011/SEP/13	2024/MAR/14	2026/MAR/18	734	18.48	$ 742.58	$ 0.00
1030396	GD1	2014/AUG/19	2023/MAR/14	2026/MAR/18	1100	369.15	$ 22230.10	$ 0.00
1030397	GD2	2014/AUG/19	2023/MAR/14	2026/MAR/18	1100	664.14	$ 39993.66	$ 0.00
1030398	GD3	2014/AUG/19	2023/MAR/14	2026/MAR/18	1100	1106.89	$ 66655.90	$ 0.00
1036881	DB1	2015/JUN/23	2025/MAR/14	2028/JAN/13	1035	277.05	$ 15703.96	$ 0.00
1036882	DB2	2015/JUN/23	2024/MAR/14	2026/MAR/18	734	110.79	$ 4454.33	$ 0.00
1050265		2017/FEB/24	2024/MAR/14	2026/MAR/18	734	1334.17	$ 53590.01	$ 0.00

Financial Summary:

Total applied work value: $ 2435146.84

PAC name: AURICO METALS INC.
Debited PAC amount: $ 562187.28
Credited PAC amount: $ 0

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

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The event was successfully saved.

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Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: THOMPSON CREEK METALS COMPANY INC. (283374)
Submitter: THOMPSON CREEK METALS COMPANY INC. (283374)
Recorded: 2021/MAY/28
Effective: 2021/MAY/28
D/E Date: 2021/MAY/28

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. **Please attach a copy of this confirmation page to your report.** Contact Mineral Titles Branch for more information.

Event Number: **5837336**

Work Type: Technical Work
Technical Items: Drilling, Geochemical, Geological, Geophysical, PAC Withdrawal (up to 30% of technical work required)

Work Start Date: 2020/SEP/26
Work Stop Date: 2020/NOV/24
Total Value of Work: $ 290511.01
Mine Permit No: MX-13-302

Summary of the work value:

Title Number	Claim Name	Issue Date	Good To Date	New Good To Date	# of Days For-ward	Area in Ha	Applied Work Value	Sub-mission Fee
1076910		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	1786.32	$ 73263.72	$ 0.00
1076911		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	1857.98	$ 76202.78	$ 0.00
1076912		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	1860.67	$ 76312.80	$ 0.00
1076913		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	744.81	$ 30547.54	$ 0.00
1076914		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	1860.40	$ 76301.89	$ 0.00
1076915		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	223.42	$ 9163.15	$ 0.00
1076916		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	725.95	$ 29773.89	$ 0.00
1076917		2020/JUN/23	2021/JUN/23	2026/MAR/18	1729	148.70	$ 6098.55	$ 0.00
532538	MAX COPPER 2	2006/APR/18	2026/MAR/18	2026/MAR/18	0	464.61	$ 0.00	$ 0.00
532540	MAX COPPER 3	2006/APR/18	2026/MAR/18	2026/MAR/18	0	464.78	$ 0.00	$ 0.00
532542	MAX COPPER 5	2006/APR/18	2026/MAR/18	2026/MAR/18	0	371.80	$ 0.00	$ 0.00
532543	MAX COPPER 6	2006/APR/18	2026/MAR/18	2026/MAR/18	0	334.60	$ 0.00	$ 0.00
551895	MAX COPPER SOUTH	2007/FEB/13	2026/MAR/18	2026/MAR/18	0	464.93	$ 0.00	$ 0.00

Financial Summary:

Total applied work value: $ 377664.32

PAC name: AURICO METALS INC.
Debited PAC amount: $ 87153.31
Credited PAC amount: $ 0

Total Submission Fees: $ 0.0

Total Paid: **$ 0.0**

Related Summary:

Existing work program Event numbers: 5837335

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Assessment Report

Max Project
2020 Drilling, Induced Polarization, and Aeromagnetic Program

Omineca Mining Division

N.T.S. 93N , 93O, 93J, 93K
Latitude 550 07’ 19” N
Longitude 1240 01’ 46” W

Claims Worked:

532537, 532538, 532540, 532542, 532635, 551895, 1076910, 1076911, 1076912, 1076913, 1076914, 1076915, 1076916, 1076917

Owner:

Jama Holdings
1287 Mcnair Street,
North Vancouver, B.C. V7K 0A1

Operator/Owner:

Thompson Creek Metals Company Inc.
Mount Milligan Mine
299 Victoria Street, Suite 200
Prince George, B.C. V2L 5B8

Prepared for:

Ministry of Energy, Mines, & Petroleum Resources
Mining & Minerals Division

Prepared By:

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Centerra Gold Services Inc.

August, 2021

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1 Summary

The Max property is in central British Columbia, approximately 150 km northwest of Prince George and 21 km south of the Mount Milligan mine. The Max project is a mineral claim block (4,869 ha) owned 100% by Jama Holdings Ltd. under option to Thompson Creek Metals (TCM) Company Ltd. An additional adjoining claim package surrounding the original Max property tenure (9,208 ha) was staked by TCM in 2020. The property encompasses late Triassic volcanic and sedimentary rocks of the Takla Group intruded by the Max stock, a series of late Triassic - early Jurassic phaneritic and porphyritic intrusive rocks. Copper and gold have been explored for on the Max property using surface techniques (geological mapping, soil sampling, silt sampling) and both airborne and ground geophysical methods discontinuously since 1986.

A total of 11 drill holes and 5,441 metres of diamond drilling was completed in 2020 in two phases. The first phase of drilling followed up on a geochemical anomaly identified through a 2019 RC top-of-bedrock drilling program in the Central diorite. The 500 m x 750 m area with anomalous copper and gold concentrations in basal till was coincident with an area of strong propylitic alteration, and low pyrite content bounded to the west by an area of increased pyrite. The second phase of drilling targeted a geophysics feature named the Ring anomaly, ~1.5 km west of the Phase-1 drill area, interpreted to be up ice-flow direction from the base of till sample MAX19-019 which hosted high-grade porphyry mineralization. Wide runs of anomalous Au and Cu were intersected in the Ring anomaly, with narrow (~2 m wide) intersections of low grade (0.1 g/t Au, 0.1% Cu) mineralization intersected in both phases of drilling. The hydrothermal alteration, veins, and mineralization intersected suggest proximity to an Au-Cu porphyry system of unknown fertility.

2 Introduction

This report summarizes the 2020 exploration program on the Max property including a total of 5,441 metres of diamond drilling over 11 drill holes, 21 line-km of ground induced polarization surveys and 963 line-km of airborne magnetic survey. The report is submitted on behalf of Thompson Creek Metals Company Inc. (TCM), a wholly owned subsidiary of Centerra Gold Inc. (Centerra). TCM is working the Max property under an option agreement with the owner of the claims, Jama holdings Inc. An additional adjoining claim package surrounding the original Max property tenure (9,208.25 ha) was staked by TCM in 2020. The Max property is located 21 km south of the Mount Milligan mine and adjoins the Milligan claim block. All exploration activities completed in 2020 were planned, managed, and reported by the Centerra Gold Services (CGS) exploration department.

3 Property Description

The Max property is located approximately 150 km northwest of Prince George, to the north of Nendatoo Lake, formerly Cripple Lake (Figure 1). The property falls entirely within the Omineca Mining Division and within the Tezzeron Creek NTS map sheet (093K/16), centered on 54.920°N, 124.067°W. It is comprised of 20 mineral claims covering an area of 14,077.10 ha; 12 claims (4868.85 ha) are 100% owned by Jama Holdings (Client Number 265548) and worked under an earn-in agreement by TCM in 2020, and an additional eight claims (9208.25 ha) were staked by TCM in June 2020.

3.1 Location and Access

The Max property may be accessed via public roads and a network of well-maintained forest service roads (FSRs). From Fort St. James to the south, access is via the Germansen Landing Road and the Rainbow FSR. The Rainbow FSR connects to the informally named "Number 5" road at 3.3 km, which accesses the northern portions of the property. The "Number 5" road is well maintained with creeks spanned by forestry bridges in good working shape and areas along the road large enough for truck turnarounds and helicopter staging.

The southern portions of the property may be accessed on foot or via helicopter. There are several helicopter companies based in Fort St. James, Smithers, and Prince George providing light- and medium-lift helicopters.

3.2 Infrastructure and Local Resources

Electrical power is supplied to the Mount Milligan mine from the BC provincial grid through the Kennedy Substation near Mackenzie, BC to within 20 km of the Max project site (Mills et al., 2009).

The Max property is accessible by secondary and resource roads form the municipality of Fort St James (population 1691, 2011) and Mackenzie (population 3507, 2011), both of which offer labor and support services for the resource extraction industry. The regional hub city of Prince George (population 74 003, 2016), is approximately 3 hours by road from the Max property. The Mount Milligan mine is 22.5 km from the Max property along the Rainbow FSR.

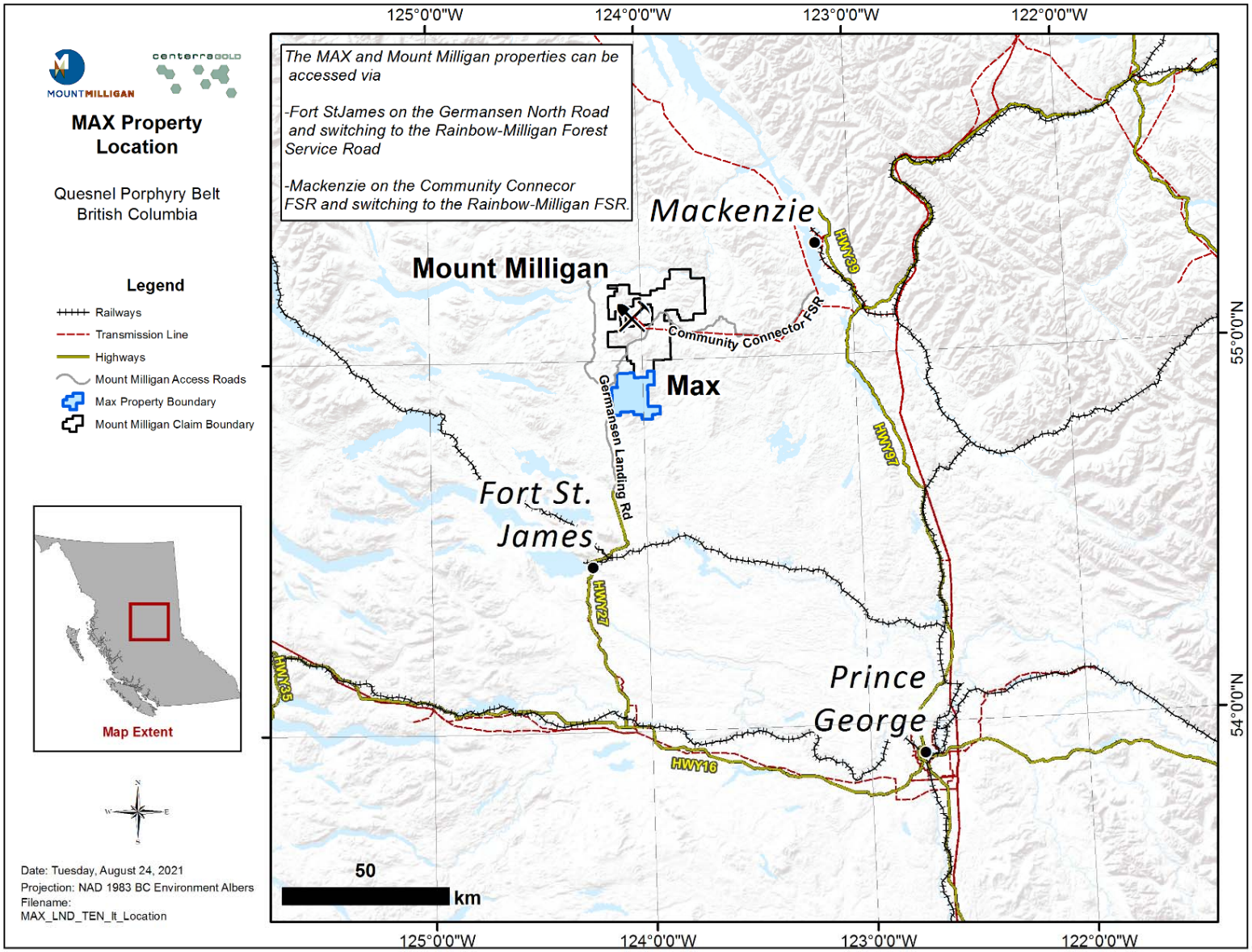

Figure 1: MAX Property Location

3.3 Physiography and Climate

Regionally, the Max property lies near the northern boundary of the Nechako Plateau and the southern limits of the Swannell Range of the Omineca Mountains in the Canadian Cordilleran Interior System. A chain of peaks aligned in an approximate cross-shape dominates the central part of the Max property. The central, unnamed peak rises to over 1400 m. Below the central cross-shaped ridge, the topography is gentle. South flowing creeks are present on the east and west sides of the property. The southern portion of the property is swampy.

The area was last glaciated 10,000–20,000 years ago with regional ice flow direction to the northeast (Kerr and Sibbick, 1992). This event blanketed the landscape with glacial till and altered pre-glacial drainage patterns. Drumlins, flutings, eskers, and melt-water channels of various dimensions are noticeable features of the region. The field area is generally well drained except for ephemeral swamps during freshet. The west side of the property is within the Lower Trembleur Lake watershed and the east side of the property is within the Salmon River watershed.

Vegetation in the region consists primarily of pine and spruce with lesser amounts of alder in wet areas. Beetle-killed timber is present throughout the field area and represents a hazard during fieldwork, especially during strong winds. In addition, numerous recent and active logging cut blocks occur throughout the field area, many of which have been recently replanted.

The property is located in the northernmost part of the Nechako Plateau, with a predominantly continental climate, somewhat moderated by the Pacific Coastal derived air. Winters are typically long and cold, sometimes reaching lows below -35°C, with below-freezing temperatures from late fall to early spring (Foord, 2016). Average snowfall in the Fort St. James area is 1.7 m (Environment Canada). Summers are warm with temperatures sometimes reaching over 30°C and precipitation dominated by convective storms (Foord, 2016). The property may be accessed year-round although deep snow may hinder access on foot from December through May.

4 Mineral Tenure

The Max project is a mineral claim block consisting of 12 mineral claims (4,869 ha) owned 100% by Jama Holdings Ltd. under option to Thompson Creek Metals (TCM) Company Ltd. An additional, adjoining claim package of eight mineral claims (9,208 ha) was staked by TCM in 2020 (Figure 2). Claim information is displayed below in Table 1.

The 2020 drill programs were conducted under Notice of Work (NoW) Permit MX-13-302, 1640915-201903. The 2020 ground IP surveys were conducted under Notice of Work (NoW) Permit MX-13-302, 1640915-201902 and Notice of Work (NoW) Permit MX-13-302, 1640915-202002.

To the author's knowledge, the property is not subject to any royalties, back-in rights, payments or other agreements and encumbrances.

To the author's knowledge, there are no environmental liabilities to which the property is subject.

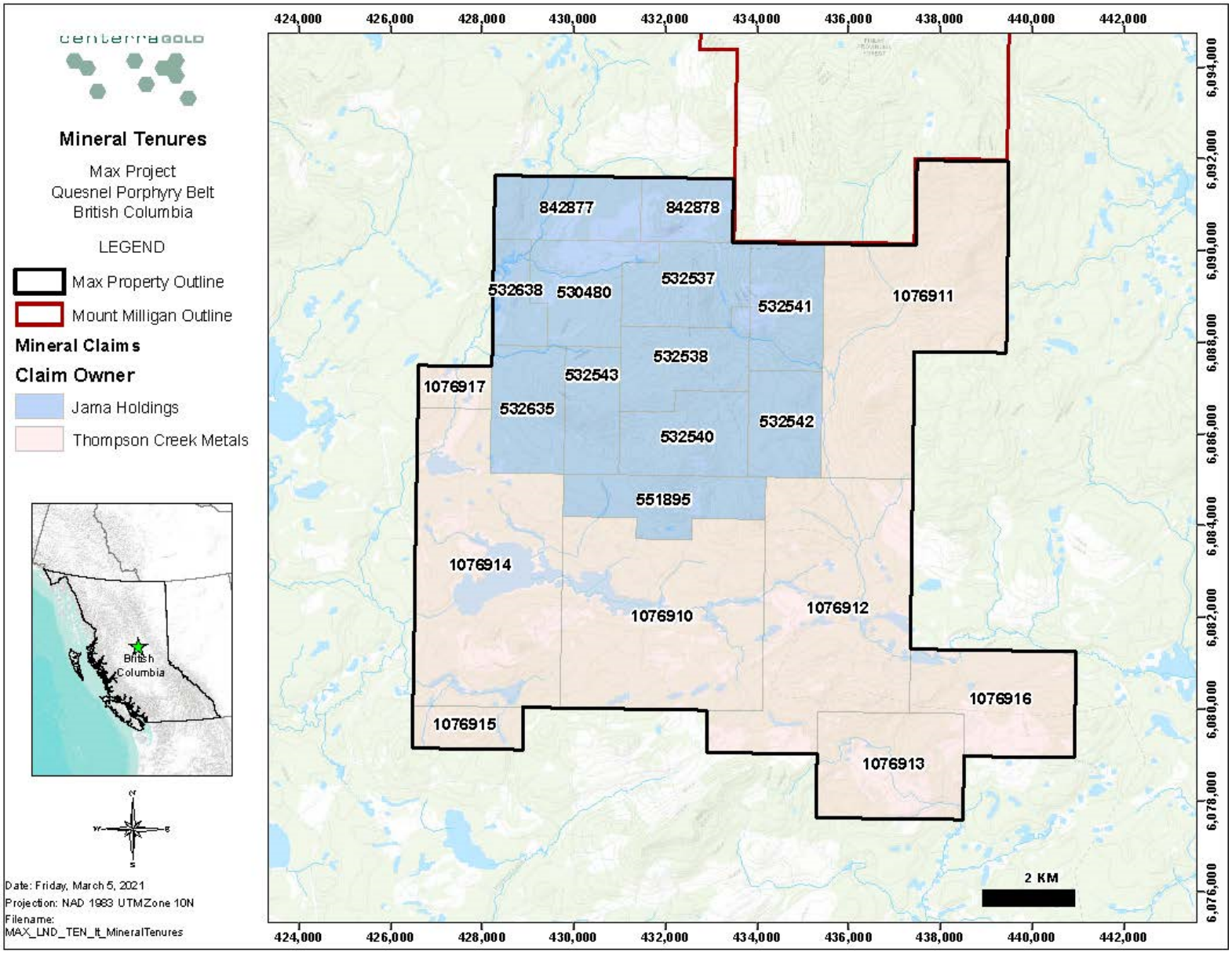

Figure 2: Mineral Claim Map

Table 1: Mineral claim data for the Max property as of August 2021

Title Number	Claim Name	Owner	Title Type	Title Sub	Issue Date	Good to Date	Status	Area (ha)
530480	NEWCOPPER WEST	265548 (100%)	Mineral	Claim	2006-03-24	2026-03-18	GOOD	464.4
532537	MAX COPPER	265548 (100%)	Mineral	Claim	2006-04-18	2026-03-18	GOOD	464.4
532538	MAX COPPER 2	265548 (100%)	Mineral	Claim	2006-04-18	2026-03-18	GOOD	464.6
532540	MAX COPPER 3	265548 (100%)	Mineral	Claim	2006-04-18	2026-03-18	GOOD	464.8
532541	MAX COPPER 4	265548 (100%)	Mineral	Claim	2006-04-18	2026-03-18	GOOD	445.9
532542	MAX COPPER 5	265548 (100%)	Mineral	Claim	2006-04-18	2026-03-18	GOOD	371.8
532543	MAX COPPER 6	265548 (100%)	Mineral	Claim	2006-04-18	2026-03-18	GOOD	334.6
532635	MAX COPPER 7	265548 (100%)	Mineral	Claim	2006-04-19	2026-03-18	GOOD	446.1
532638	MAX COPPER 8	265548 (100%)	Mineral	Claim	2006-04-19	2026-03-18	GOOD	223.0
551895	MAX COPPER	265548 (100%)	Mineral	Claim	2007-02-13	2026-03-18	GOOD	464.9
842877		265548 (100%)	Mineral	Claim	2011-01-12	2026-03-18	GOOD	445.7
842878		265548 (100%)	Mineral	Claim	2011-01-12	2026-03-18	GOOD	278.6
1076910		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	1786.3
1076911		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	1858.0
1076912		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	1860.7
1076913		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	744.8
1076914		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	1860.4
1076915		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	223.4
1076916		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	725.9
1076917		283374 (100%)	Mineral	Claim	2020-06-23	2026-03-18	PROTECTED	148.7

5 History

The Max area was first staked in 1986 by A. A. Halleran, A. D. Halleran and U. Schmidt, a prospecting partnership based out of Fort St. James. The claims have seen periodic exploration to date, consisting of soil sampling, mapping, a VLF-EM and ground-based magnetic survey, pole-dipole IP surveys, an airborne magnetics survey and a top-of-bedrock reverse circulation drill program.

The claims were initially staked based on the location of an aeromagnetic anomaly similar to local aeromagnetic anomalies associated with gold mineralization as well as the nearby Mount Milligan porphyry Au-Cu discovery (Schmidt, 1987).

United Pacific Gold

In 1987, United Pacific Gold Limited optioned the property and conducted grid-spaced soil sampling and geological mapping, collecting 1979 B-horizon soil samples from across the property. In 1988 United Pacific Gold Limited conducted two additional soil sampling programs to the north of the current property (Schmidt, 1988; Schmidt, 1989). Three areas outside the current Max property were covered with a VLF-EM and ground-based magnetic survey in early 1989; however, due to deep snow the planned grid within the current property was not surveyed.

City Resources (Canada) Limited

The Max property was sold to City Resources (Canada) Limited in 1990, which entered a joint venture, in May 1990, with Rio Algom to explore the property. Work done in 1990 and 1991 focused on the Central Grid on the eastern side of the current Max property. In 1990 Rio Algom conducted an airborne VLF- EM and magnetic survey over the entire claim block along with an air photo interpretation of the surficial geology, grid-spaced soil sampling, and geological mapping. This program identified a zone at least 1.0 km by 0.5 km of anomalous copper and gold in soils coincident with mapped dioritic to monzodioritic intrusions. The 1991 program extended this approach with grid-spaced soil sampling, geological mapping and IP surveying conducted over the NE, NW, and Lynx Grids, all of which are outside of the current property, and conducted a follow-up program on the Central Grid. The Central Grid follow-up program collected 303 B-horizon soil samples and 264 rock samples. As a result of this program, Rio Algom geologists determined that the anomalies identified in the 1990 program were due to “the concentration of elements in the B-horizon after leaching from the A-horizon” or “an element train from a mineralized vein” (Halleran et al., 1991) and no further work was recommended. In 1992, Rio Algom drilled two targets, outside of the current claims, identified during the 1991 program. Results were not encouraging, and the property was allowed to lapse (Halleran et al., 1992).

Standard Metals Exploration Ltd

The Max property was restaked in 2006 and 2007 by David Blann and then optioned to Blann’s exploration company, Standard Metals Exploration Ltd, who conducted soil, silt, and rock sampling concurrent with geological mapping. This program found erratic and weakly anomalous Cu and Au concentrations in soil and silt sampling and noted visible gold in pan concentrates from soil and silt samples (Blann, 2007).

Jama Holdings Ltd

Standard Metals Exploration Ltd. sold the Max property to Anthony Hewett in 2010, who incorporated Jama Holdings Ltd. as the owner. Peter E. Walcott and Associates conducted 20.5 line-km of pole-dipole

IP survey over the 2010 field season on behalf of A. Hewett (Walcott, 2011). Four additional claims were added to the property by Jama Holdings in January 2011. Peter E. Walcott and Associates extended their survey grid in fall of 2011, conducting another 24.1 line-km of pole-dipole IP surveying (Walcott, 2012). Results showed four km-scale chargeability highs in a roughly north-south orientation coincident with the Cu-Au in soil anomalies from the 1990-91 work by Rio Algom.

Aztec Metals Corp

In June 2013, Jama Holdings optioned the property to Aztec Metals Corp. Aztec Metals commissioned an airborne magnetic and radiometric survey covering the entire property as well as a program of soil sampling, rock chip sampling, and geological mapping. The program was designed primarily to verify the 1990-91 soil sampling and geological mapping, and was successful in doing so (Wilkins, 2014).

In 2017 a small program of partial-leach soil sampling and traditional soil sampling was conducted in the northwestern part of the property (Wilkins, 2018). Results were inconclusive. Two mineral claims lapsed and were forfeit June 01, 2017. Aztec dropped their option from Max after the 2017 work.

Thompson Creek Metals Company Inc

An earn in agreement was signed between Jama holdings and Thompson Creek Metals Company Inc in August 2018. The 2018 program comprised a 3D inversion of the 2013 airborne magnetic survey covering the entire property, as well as a small grid-spaced soil sampling program and concurrent ground magnetic survey in the northwest corner of the property. The soil sampling did not find any notable geochemical anomalies.

The 2019 exploration program was designed to collect bedrock material from across a large area of the property on a 500 m grid, with surface exposures sampled by hand and covered areas sampled with a helicopter-portable reverse-circulation drill. The 2019 program found a 500 m x 750 m area with anomalous copper and gold concentrations in basal till coincident with an area of strong propylitic alteration, and low pyrite content bounded to the west by an area of increased pyrite.

6 Regional Geology and Mineralization

6.1 Regional Geology

The Max property is located within the Quesnel Terrane, with bedrock comprising late Triassic volcanic flow deposits, breccias, volcaniclastic rocks and bedded epiclastic sediments intruded by early Jurassic porphyritic diorite and monzodiorite plutons (Nelson et al., 1991; Nelson et al., 1996; Logan et al., 2010) (Figure 3).

Within the Quesnel Terrane, the upper Triassic Takla Group is the oldest stratified sequence. It comprises a large and varied suite of island-arc volcanic and sedimentary units. The oldest succession within the Takla Group is the Slate Creek Succession, comprising dark grey to black slates and phyllites with interbedded quartz-rich siltstones and sandstones and minor limestone and limy fine-grained siliciclastic rocks. This is overlain by the Inzana Lake succession, comprising siliceous dark grey to black argillite, with green to grey-green volcanic sandstone, green augite crystal clast bearing tuffs, and lapilli tuffs, water-lain tuffs, distinctive sedimentary breccias, and rare limestone pods. The Inzana Lake succession is overlain by the Witch Lake Succession, primarily comprising augite-bearing basalt and basaltic andesite flows and related pyroclastic rocks (Nelson and Bellefontaine, 1996). To the south of the property, small outliers of the Chilcotin Group basalts unconformably overlie the Takla Group. The Chilcotin group comprises columnar jointed vesicular clinopyroxene-olivine-plagioclase -phyric flows and volcanic centres sometimes with distinctive ultramafic and crustal xenoliths. To the northwest of the property, the Lower Jurassic Chuchi Lake Succession unconformably overlies the Witch Lake succession. The Chuchi Lake Succession comprises a heterolithic package of intermediate flows, volcaniclastic rocks, and epiclastic rocks with some showing evidence of subaerial deposition with maroon flows, large irregular amygdules, and lahar deposits. To the east of the property, the Wolverine Metamorphic Complex and Wolverine Range Plutonic suite are exposed by northwest and southeast dipping normal faults.

The property area is cut by northwest trending dextral transcurrent faults. These transcurrent faults bound northeast trending normal faults that form horst and graben structures (Nelson and Bellefontaine, 1996). On a broad scale, the Takla Group sit in the hanging wall to a large thrust system that translated the island arc rocks on to the North American Miogeocline; however, nowhere in the region is this thrust exposed (Nelson and Bellefontaine, 1996).

Regional-scale folding appears to be relatively scarce. In the south of the property, however, mapping by Nelson and Bellefontaine (1996) identified steeply dipping, southwest and northeast striking foliations with a moderately northwest plunging lineations (Nelson and Bellefontaine, 1996) that suggest a moderately northwest-plunging F2 fold in the area.

Intrusive rocks in the project area comprise Late Triassic-Early Jurassic diorites, monzodiorites, and syenites that intruded into the Takla Group. These intrusions may be either coarse-equigranular or porphyritic, hypabyssal, and the source intrusions for the Witch Lake and Chuchi Lake successions (Nelson and Bellefontaine, 1996). Regional age dates for these intrusions range from 204.2 ± 9 Ma to 182.5±4 Ma. Intrusions in and around the Mount Milligan mine include the 186.9±0.5 Ma Magnetite Breccia Stock (MBX) alkaline intrusive (igneous titanite, Jago et al., 2014), the 182.5±4.3 Ma Southern Star Stock (Mortensen et al., 1995), the 182.5±4 Ma Rainbow dyke (hydrothermal rutile, Nelson and Bellefontaine, 1996), the 189±3.3 Ma Heidi Lake Stock (Mortensen et al., 1995), and the 183±3.0 Ma North Slope Stock (Mortensen et al., 1995), all of which comprise part of the Early-Middle Jurassic Hogem Batholith (Nelson and Bellefontaine, 1996; Logan et al., 2010).

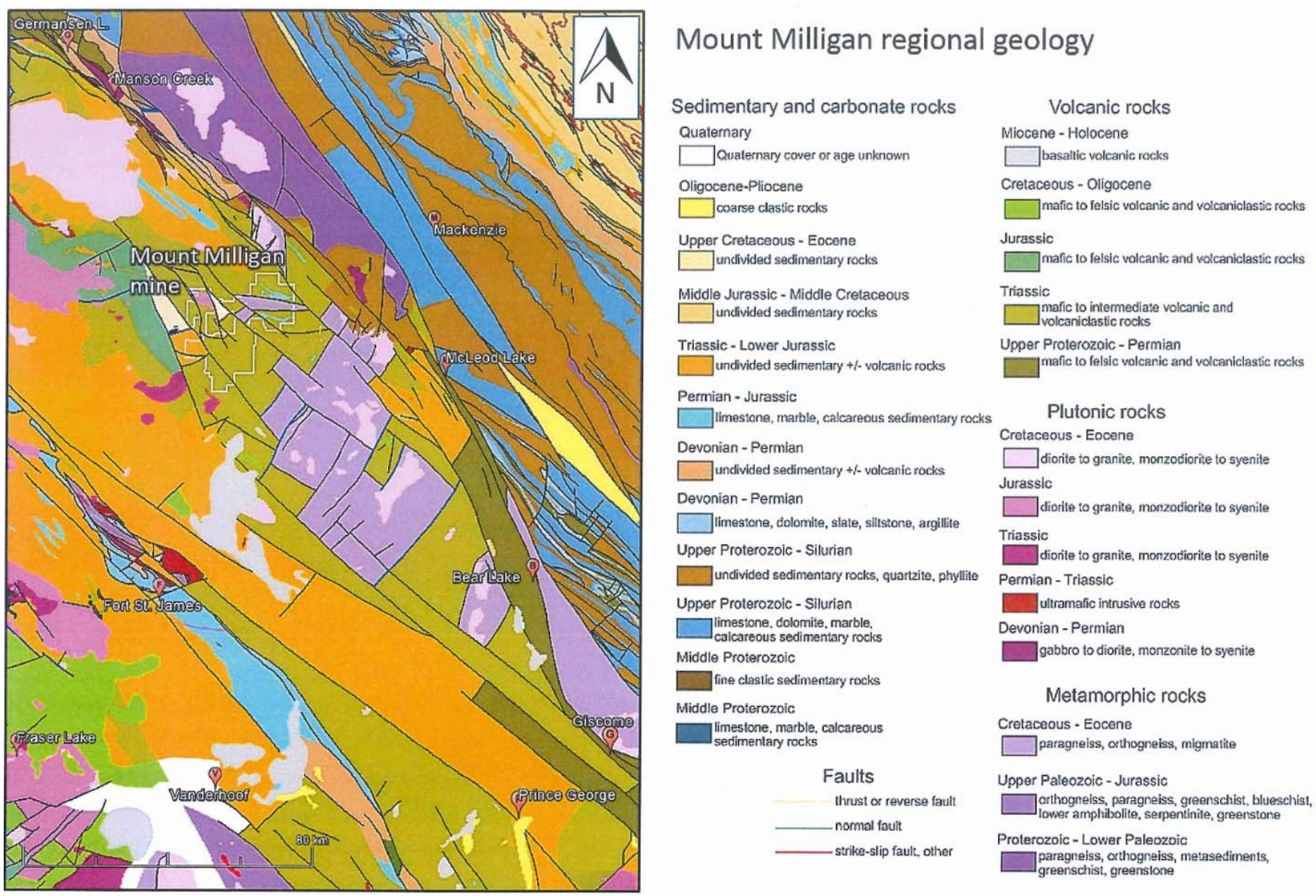

Figure 3: Regional Mount Milligan - Max Geology

6.2 Regional Mineralization

The region surrounding the Max property hosts four main styles of mineralization, most of which are related to the intrusive activity in the region: (1) late Triassic to Early Jurassic Cu-Au alkalic porphyry deposits, (2) precious and base metal-bearing quartz-sulphide veins ("quartz polymetallic veins") most likely genetically related to nearby porphyry systems, (3) relatively unexplored epithermal-style vein systems developed in the Chuchi Lake Succession rocks, and (4) volcanic reduced-facies copper hosted in the flow-tops of Takla Group volcanic rocks.

Late Triassic to Early Jurassic porphyry deposits are typically associated with relatively small, densely porphyritic, high level, dioritic-monzonitic intrusions and related hydrothermal breccias. These deposits are marked by overlapping alteration systems focused around an intrusive complex. The alteration systems typically comprise a potassic core enveloped by overlapping peripheral zones of sodic-calcic and/or propylitic alteration. These alteration assemblages may be overprinted by zones of phyllic alteration that are either zonal in distribution (between the potassic and propylitic zones) or structurally controlled. Abundant secondary magnetite is commonly associated with the potassic zone of these porphyry systems.

Copper mineralization is commonly more abundant in the potassic core whereas gold is more prevalent in the phyllic zone. Sulphide mineralization comprises chalcopyrite, pyrite, bornite and chalcocite at the Lorraine Mine. These sulphides are hosted in quartz veinlets, veins, breccias, disseminations and replacements (Nelson and Bellefontaine, 1996; Jago et al., 2014; Giroux and Lindinger, 2016).

Examples of Late Triassic to Early Jurassic porphyry deposits and prospects in the area include the Mount Milligan mine (MINFILE 093N/194, 093N/191) with 170 Mt proven and probable reserves at 0.22% Cu and 0.3 g/t Au as of December 2017 (Centerra Gold); the Tas Prospect (MINFILE 093K 091), Lorraine Prospect (MINFILE 093N/002) with a 6.4 Mt indicated resource at 0.61% Cu and 0.23 g/t Au and a 28.8 Mt inferred resource at 0.45% Cu and 0.19 g/t Au as of March 30 2012 (Giroux and Lindinger, 2016; Lorraine) and the Chuchi Lake Prospect (MINFILE 093N/007) with a NI43-101 non-compliant resource of 50 Mt between 0.21- 0.4% Cu and 0.44 g/t Au (MINFILE 093N/007).

Quartz-polymetallic vein systems are often found in association with porphyry Cu systems, representing the outer limits of metals transport from the porphyry system (e.g. Lang and Eastoe, 1988; Pirajno, 2009). Regional examples of these veins include the Esker veins at Mount Milligan (MINFILE 093N/194) and the Skook Halo (MINFILE 093N/140) veins, where grab samples returned 13.4 g/t Au, 16.6 g/t Ag, and 2.3% Zn. These vein systems are rarely economic on their own; however, they may provide an indication of a nearby porphyry system.

Epithermal vein systems are known to be related to magmatic systems, with or without related porphyry systems (e.g. Eaton and Setterfield, 1993; Cooke and Simmons, 2000; Hedenquist et al., 2000; Sillitoe and Hedenquist, 2003; Cooke et al.). In the Mount Milligan region, two possible epithermal showings have been described (Nelson and Bellefontaine, 1996). The Wit showing (MINFILE 093N/141) is described as two veins, with true widths of 11 m and 4 m, hosting irregular banded chalcedonic-quartz vein with pods of galena and sphalerite as well as possible argentite and tetrahedrite (Nelson and Bellefontaine, 1996). The Chic showing, approximately 2.5 km east of the Wit showing (MINFILE 093N/202) is described as a poddy epithermal quartz-green kaolinite vein that cuts a megacrystic porphyry intrusion and hosts abundant blebs of disseminated pyrite and traces of chalcopyrite (Nelson et al., 1991).Epithermal vein systems are known to be related to magmatic systems, with or without related porphyry systems (e.g. Eaton and Setterfield, 1993; Cooke and Simmons, 2000; Hedenquist et al., 2000; Sillitoe and Hedenquist,

2003; Cooke et al.).

Approximately 60 km northwest of Max, the Gertie showing (MINFILE 093N/210) is a zone of disseminated and fracture-controlled malachite, chalcocite, and rare native copper within the volcanic rocks of the Chuchi Lake Succession within the Takla Group. Nelson et al. (1991; 1996) suggest that this may represent a red-bed style copper showing similar to the Sustut Copper prospect (MINFILE 094D/063). Assay results from the BCGS returned up to 1.08% Cu and 17.5 g/t Ag (Nelson and Bellefontaine, 1996).

7 Property Geology

The Max property is predominantly underlain by the Witch Lake Succession of the Takla Group, with minor fault-bounded slivers of Inzana Lake Succession and a number of Triassic-Jurassic intrusions consisting of diorite and/or monzodiorite (Logan et al., 2010) (Figure 4). The Witch Lake Succession comprises a sequence of augite-porphyry flows, pyroclastic and rare epiclastic rocks. The Inzana Lake Succession consists of volcanic derived epiclastic rocks and fine-grained volcaniclastic rocks (Nelson et al., 1996).

This stratigraphic package has been intruded by the Max stock, a polyphase intrusive body comprising a dominant coarse-grained, phaneritic diorite cut by a crowded porphyritic monzonite, and porphyritic mafic dykes. Table 2 below connects the rock descriptions used on the properties to their formations.

No local-scale folding has been identified on the Max Property. The epiclastic and volcaniclastic beds in the northeast of the project area dip 65-70° to the north-northeast (Halleran et al., 1991; Nelson and Bellefontaine, 1996).

Table 2: Intrusive and stratified rocks on the Max property

Group	Succession	Intrusive Suite	Intrusion	Regional Lith Code	Max Lith Code	Lith Name
NA	NA	Late Triassic – Early Jurassic	Max Stock	TrJdr	DIOR	Diorite
				TrJdr	MZPP	Porphyritic monzonite
Takla	Witch Lake	NA	NA	uTrTWppbb	ANDS, APXT, ANTF	Mafic to intermediate volcanic
				?	FVOL	Felsic volcanic
	Inzana	NA	NA	muTrTsf	SEDS	Clastic sedimentary rocks
NA	NA	?	?	?	HYBX	Carbonate-cemented Hydrothermal Breccia
NA	NA	?	?	?	MFD	Mafic Dyke

7.1 Diorite (DIOR)

The Max stock (Nelson et al., 1996) is primarily composed of a leucocratic, coarse, holocrystalline, pyroxene-hornblende bearing diorite. Euhedral to subhedral pyroxene crystals within this lithology are typically 1-4 mm in length. Plagioclase crystals are subhedral to anhedral, forming between the pyroxene crystals. Plagioclase is commonly altered partially to epidote whereas pyroxene and hornblende are altered to chlorite. Four phases of diorite intrusions were observed in drill core: Diorite-1, Diorite-2, Diorite-3, and Diorite-4.

Figure 4: Diorite hand specimens coarse-grained (left) and medium-grained (right)

7.1.1 Diorite-1

Diorite-1 is a phenocryst-crowded (+50% mafic minerals), medium-grained 'salt-and-pepper' diorite, commonly overprinted by inner and outer propylitic alteration suites (epidote-albite +/- chlorite). See Figure 5 below.

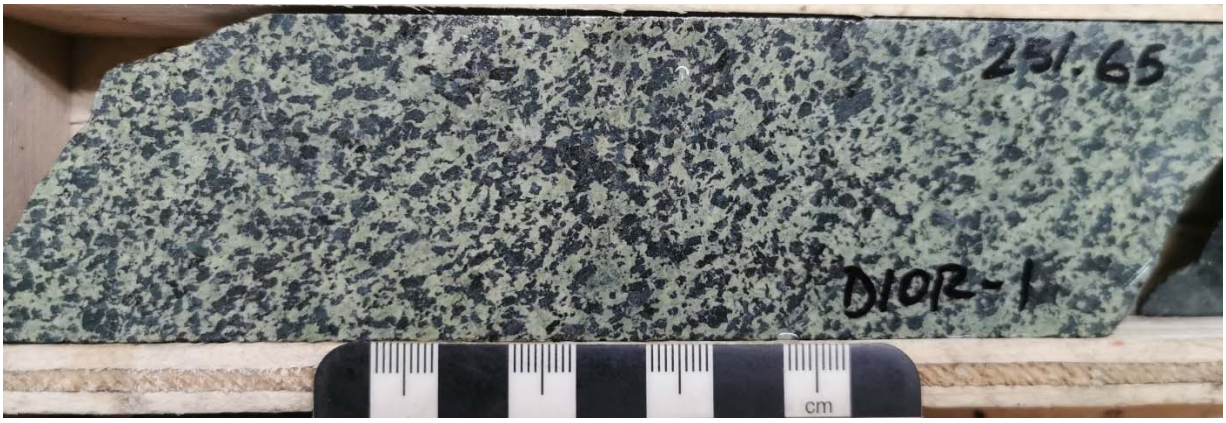

Figure 5: Hornblende-pyroxene-plagioclase 'salt-&-pepper' diorite (DIOR-1)

7.1.2 Diorite-2

Diorite-2 is a less phenocryst-crowded (20-40% mafic minerals) medium-grained diorite, commonly overprinted by potassic alteration (biotite-magnetite). The diorite-2 unit may represent altered mafic dykes. These mafic dykes become obvious at the bottom of hole 20-MAX029, in relatively unaltered rock. See Figure 6 below.

Figure 6: Hornblende-phyric Diorite Porphyry (DIOR-2)

7.1.3 Diorite-3

Diorite-3 is a plagioclase-phyric (10-15% feldspars) medium-grained diorite porphyry, commonly crosscut by fractures with weak propylitic alteration envelopes. See Figure 7 below.

Figure 7: Plagioclase-phyric Diorite Porphyry (DIOR-3)

The aforementioned diorite suites are distinguishable by magnetic susceptibility (mag sus) readings from a KT-10 magnetic susceptibility metre. Diorite-1, likely the most distal intrusive phase indicated by the weak propylitic alteration signature, is significantly more magnetic than Diorite-2 and Diorite-3 (100+ SI compared to 20+ SI). This implies that a magnetic destructive signature may be a useful vector for exploration to distinguish mineralized versus non-mineralized phases of diorite.

7.1.4 Diorite-4

Diorite-4 is a plagioclase-phyric (20-40% plagioclase) medium-grained glomerophyric diorite, commonly with zoned plagioclase phenocrysts and weak fracture-controlled alteration halos. This unit is texturally similar to the post-mineral diorite porphyry dykes (DRPD) observed at Mount Milligan. See Figure 8 below.

Figure 8: Glomerophyric Plagioclase Diorite Porphyry (DIOR-4)

7.2 Porphyritic Monzonite (MZPP)

The Max stock is cut by speckled light pink-grey bodies of weakly porphyritic to phenocryst-crowded (15-50% phenocrysts) monzonitic porphyry (Figure 9Figure 10). The monzonite porphyry comprises plagioclase (1-3 mm), alkali feldspar, and variate amounts of hornblende set in a fine-grained groundmass with accessory magnetite. These are interpreted as dykes cutting the more voluminous diorite bodies. Monzonite textures are often obscured by strong to intense silica alteration.

Monzonite porphyry units (3-20 m wide), sometimes megacrystic, were intersected in 2020 drilling in the Central diorite and Ring anomaly areas. Monzonite porphyry units (~10 m wide) with K-feldspar alteration, quartz-magnetite veining and trace chalcopyrite were also observed at the bottom of drill hole MAX20-029.

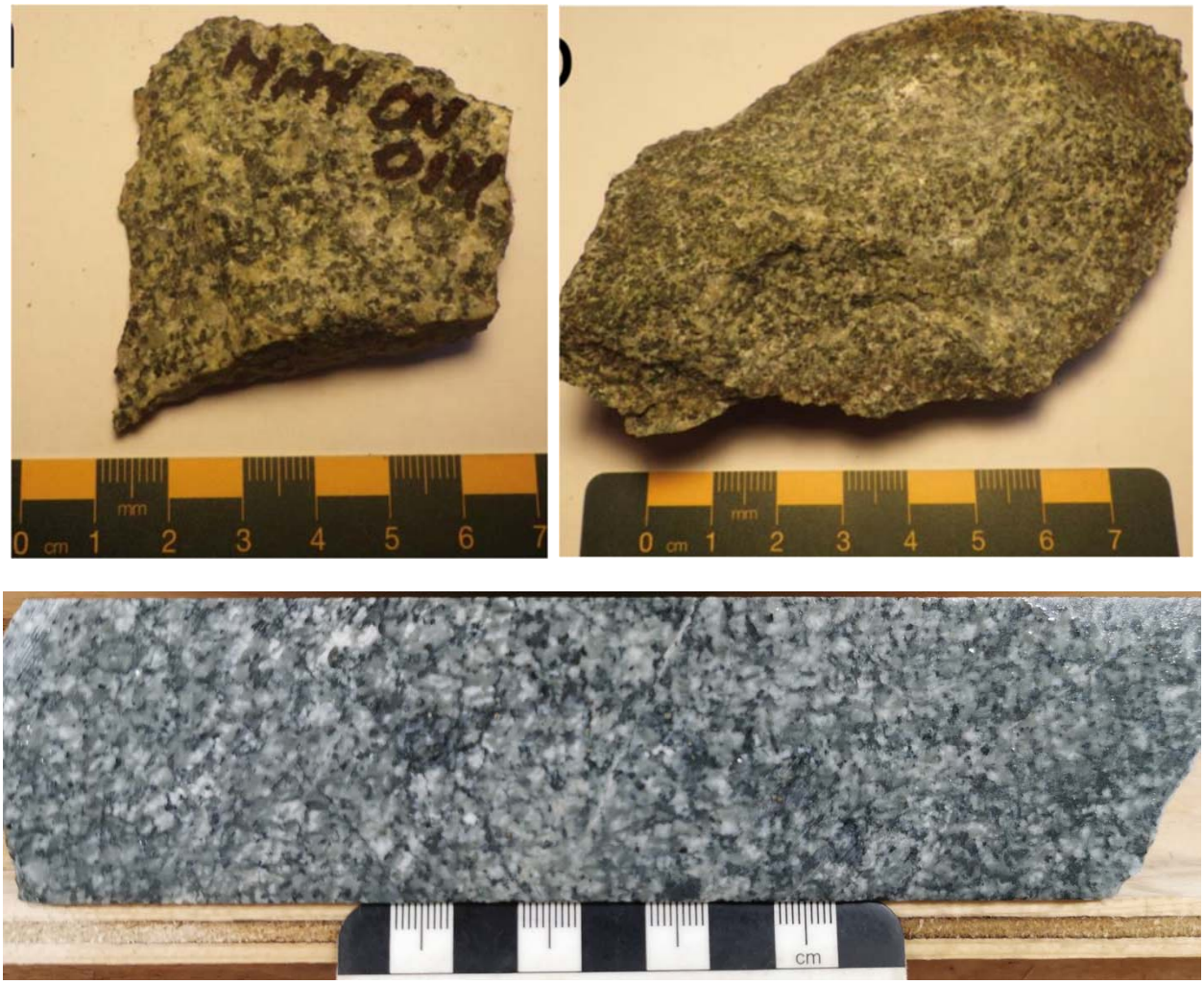

Figure 9: Plagioclase Monzonite Porphyry (MZPP) hand specimens with coarser variety on top; drill core with finer-grained variety on bottom

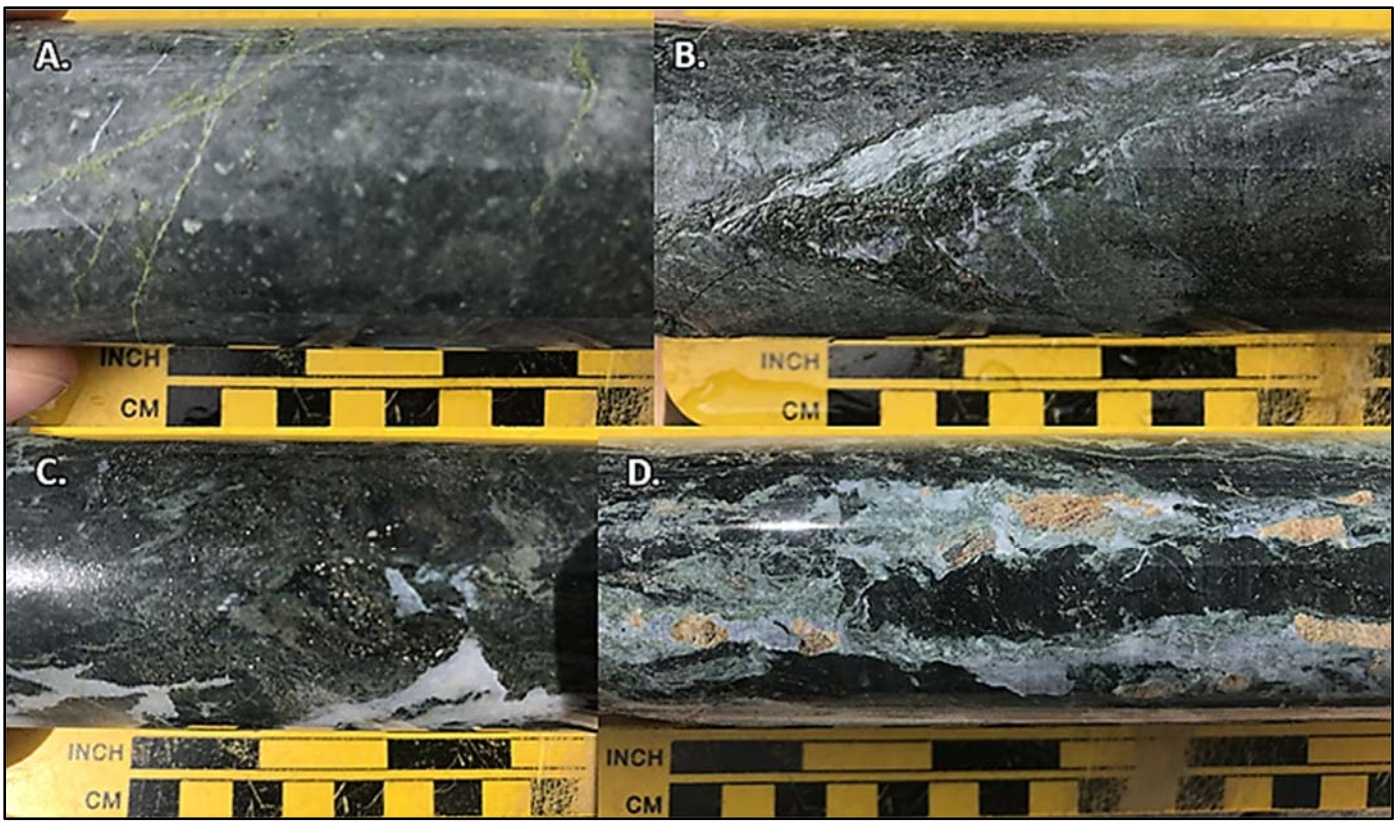

Figure 10: Selected photos from MAX20-027. A) Monzonite porphyry dyke with K-feldspar rich groundmass and magnetite-epidote replacement of mafic phenocrysts, cut by epidote-sphalerite-hematite-pyrite veins and veinlets (444 m depth). B) Chlorite-calcite vein with outer QSP envelope (suggestive of a composite vein) cutting relict pervasive biotite alteration that is retrograded to chlorite. Disseminated pyrite is 5% (490 m depth). C) Lens of biotite ± K-feldspar altered epiclastic rock cut by calcite-epidote veins and brecciated veins. Biotite is partially retrograded to chlorite. Disseminated pyrite is 10% (522 m). D) Lens of epiclastic rock with carbonate-epidote-sphalerite(?)-pyrite veins and chlorite envelope (after biotite?). Disseminated pyrite is 2-3% (532 m).

7.3 Mafic Dykes (MFD)

Mafic dykes on the Max property were recognized in 2020 drill core. This unit contains ~20-40% hornblende phenocrysts, commonly replaced by biotite, set in a dark-green aphanitic groundmass with accessory magnetite. There is no equivalent rock unit observed at the nearby Mount Milligan deposit. See Figure 11 below.

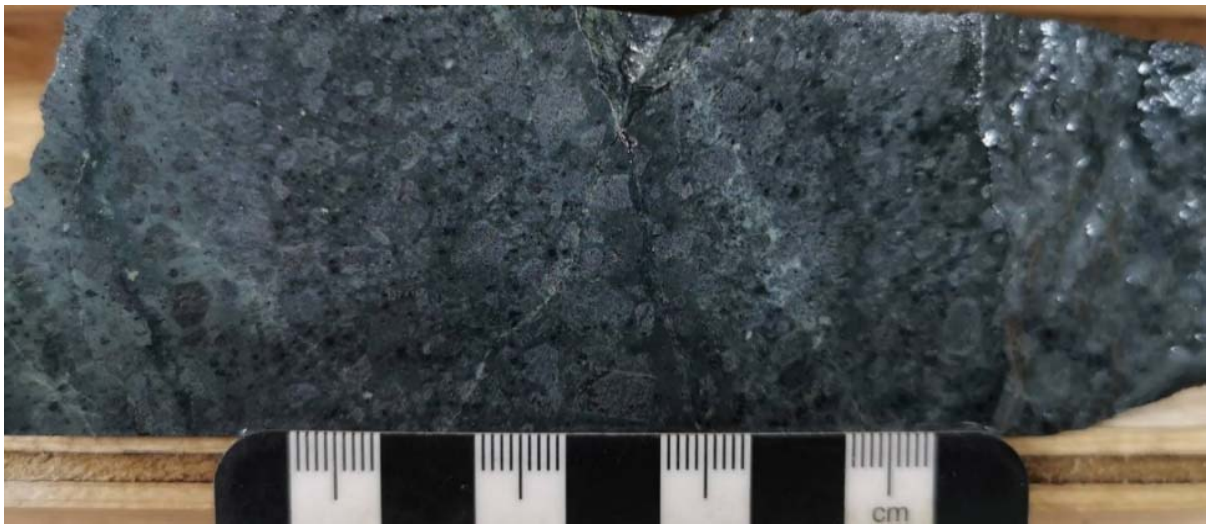

Figure 11: Medium to coarse-grained pyroxene-hornblende-phyric dyke (MFD)

7.4 Mafic-Intermediate Volcanic and Volcaniclastic Rock (ANDS/APXT/ANTF)

The volcanic and volcaniclastic rocks on the Max property are typical of the Witch Lake Succession with common augite phenocrysts (2-4 mm). Plagioclase phenocrysts (up to 5 mm) and crystal fragments are also prevalent within some units. Volcanic units are variably magnetic and uncommonly bedded.

7.4.1 Undifferentiated Andesite (ANDS)

Intense alteration has obscured the original volcanic textures of intermediate volcanic rocks in areas throughout the Max property. Although the textures have been obscured, the composition of these rocks is identified as andesitic. See Figure 12 below.

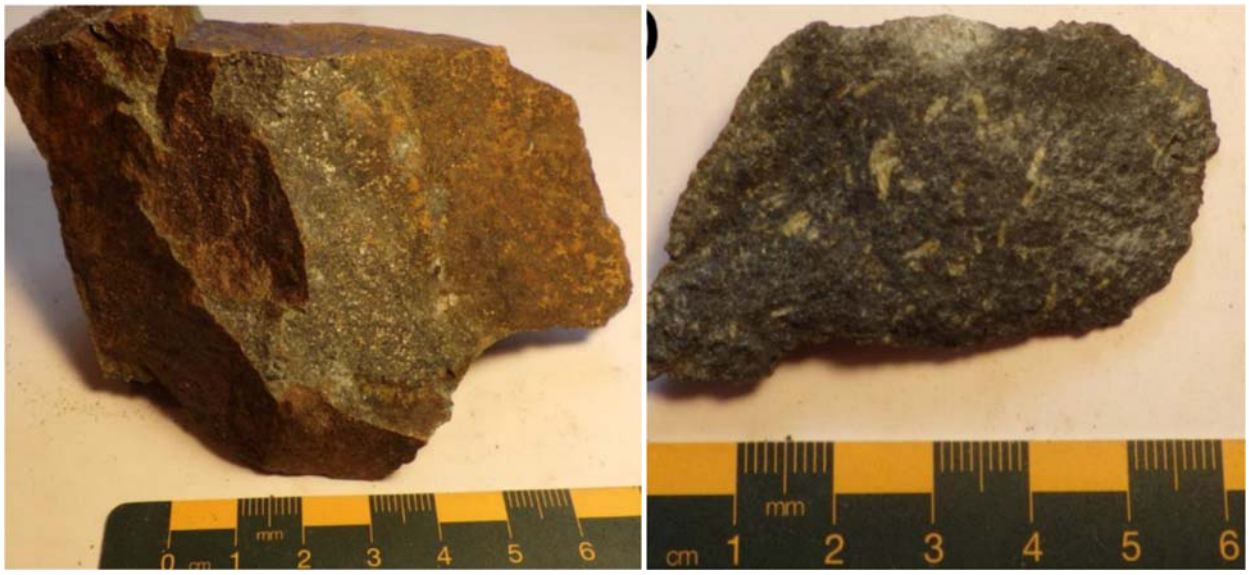

Figure 12: Fine-grained mafic volcanic rock on left (ANDS) and plagioclase-phyric mafic volcanic rock on right

7.4.2 Andesitic Pyroxene Crystal Tuff (APXT)

Intermediate tuff units bearing >20% crystals (> 2mm) that may contain minor lapilli (<20%) or ash. Crystal tuff is typically comprised of 5-40% euhedral to irregular to fractured pyroxene crystals (1-4 mm), set in a fine-grained green groundmass. See Figure 13 below.

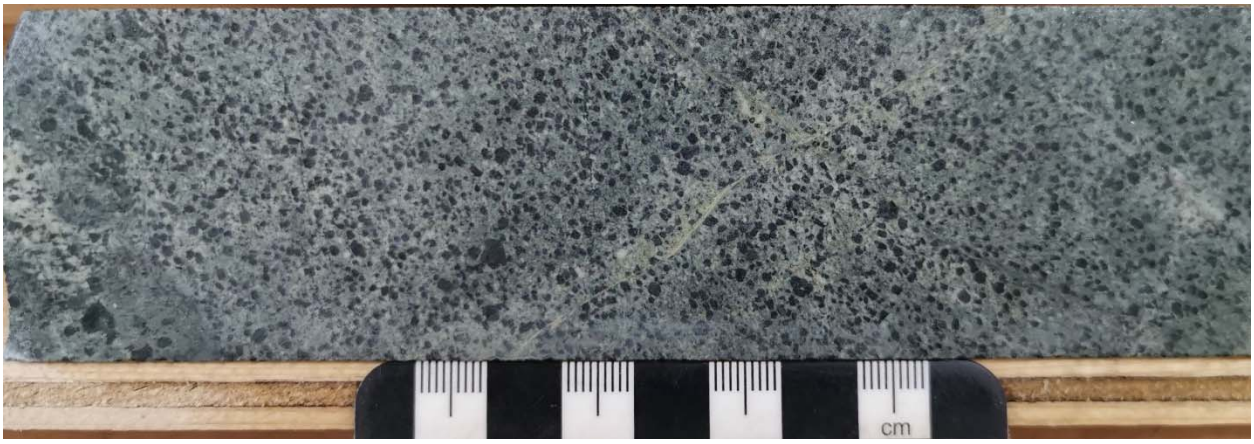

Figure 13: Medium-grained pyroxene phyric crystal tuff (APXT)

7.4.3 Andesitic Tuff (ANTF)

Intermediate tuff units predominantly comprised of ash (<2 mm) with less than 20% crystals (>2 mm) and/or lapilli (>64 mm). Texturally, the fine ash groundmass can be angular to irregular to cuspate while crystals (augite with local plagioclase) range from broken to euhedral.

7.5 Clastic Sedimentary Rocks (SEDS)

Clastic sedimentary rocks were not encountered during the 2020 drilling campaign. Halleran et al. (1991) describe sedimentary rocks in the northeastern portion of the property as “greywacke, argillite, and siltstone intercalated with occasional [sic] augite porphyry flows”. The greywacke is described as a volcanic-derived epiclastic rock with 1-2 mm grains of feldspar in a dark, chloritic matrix. Within this package of rocks, bedding dips steeply to the north-northeast. Based on the similar description in Nelson and Bellefontaine (1996), this package of rocks is considered to be part of the Inzana Lake Succession.

7.6 Carbonate-cemented Hydrothermal Breccia (HYBX-3)

Carbonate-cemented breccias and brecciated vein occurrences are present at the K2 showing in the western part of the Max property and at a malachite occurrence in the centre of the property. Breccia zones comprise a homolithic population of angular clasts in a carbonate-quartz±sulphide cement. The K2 breccia is also hematite bearing. Samples of the K2 breccia have returned up to 0.7% Cu without any significant gold. The K2 breccia was not targeted in 2020 drilling.

Hydrothermal breccias form by explosive pressure release of potentially ore bearing fluids/volatiles that fracture and displace or expand the rock. Different phases of hydrothermal breccias were intersected in 2020 drilling. Displacement may be as weak as a crackle (jigsaw) texture or intense as rotated clasts and fluidized milling of the rock (mosaic-chaotic breccia texture). See Figure 14 & Figure 15 below.

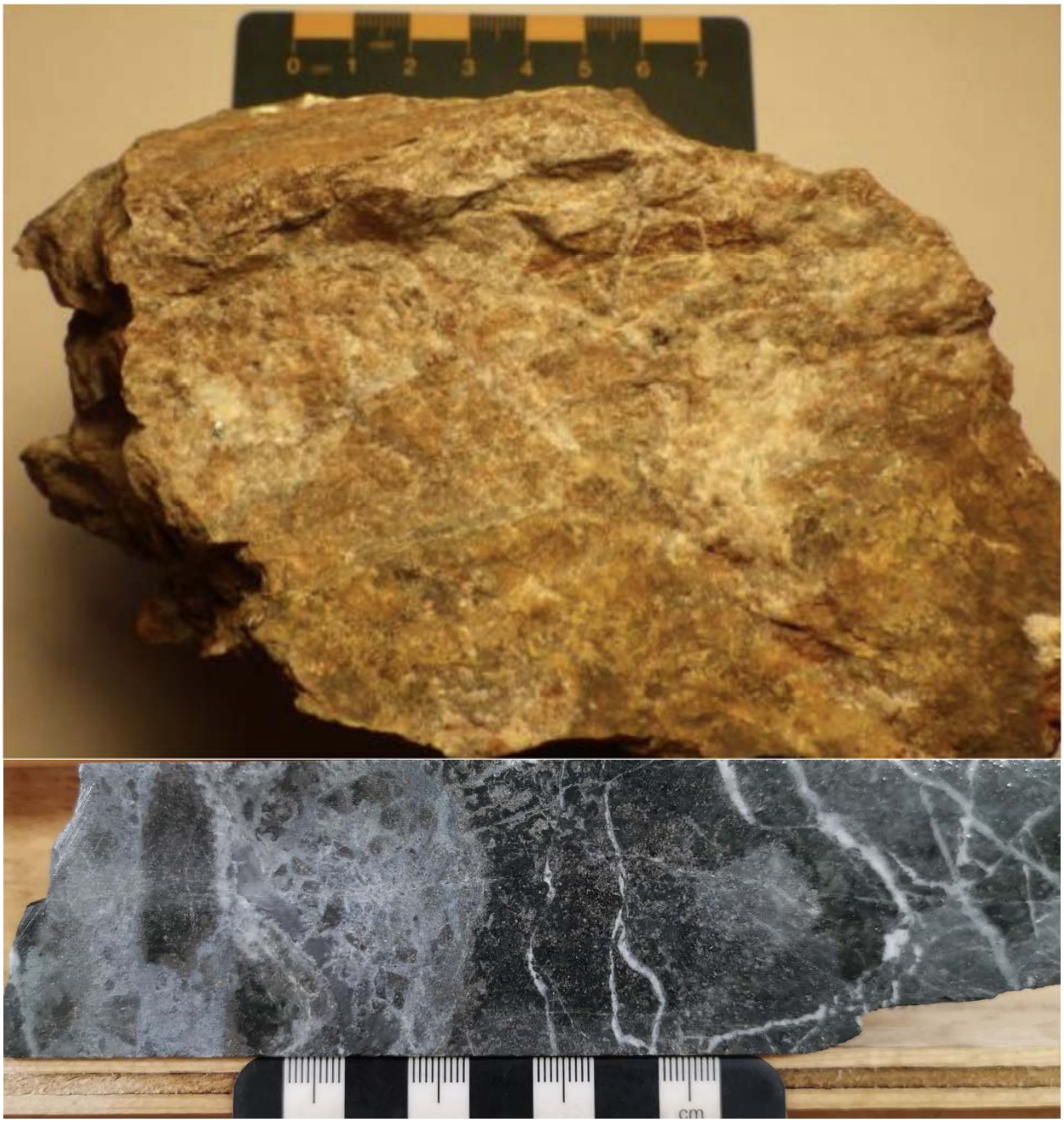

Figure 14: Carbonate-cemented Hydrothermal Breccia (HYBX-3)

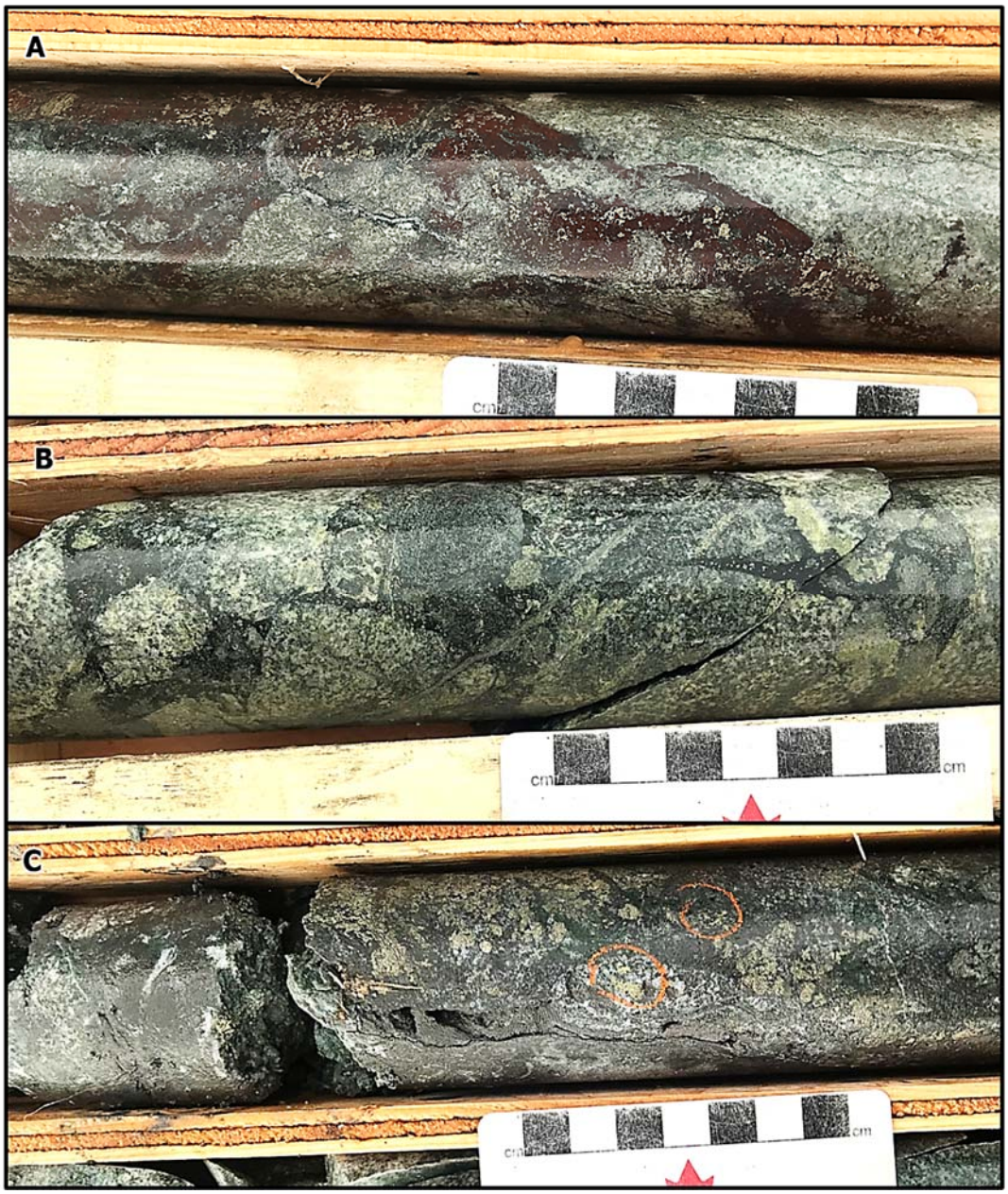

Figure 15: Detailed core photos of drill hole MAX20-032. A: Hematite (replacing magnetite)-chlorite-carbonate cemented hydrothermal breccia with patchy quartz-sericite-carbonate and 4% pyrite at 227 m. B: Magmatic-hydrothermal breccia with angular clasts of diorite in epidote-chlorite altered dioritic matrix with 2% pyrite at 317 m. C: Hematite-chlorite-carbonate cemented hydrothermal breccia in diorite host rock with 4% pyrite and 0.2% chalcopyrite at 215 m.

7.7 Veining

Five vein categories have been designated for the Max property based on the more complex subdivisions used at Mt. Milligan. Constituent minerals are generalized, and any vein encountered may not have all minerals present. Recording careful descriptions and envelope minerals of the veins encountered may aid in future subdivision of vein types for Max. It is important to distinguish which age-series of veins is encountered, to allow modeling of vein sets and mineralization potential. Vein types may at times be ambiguous or display two generations of veins utilizing the same structure.

Table 3: Vein categories applied to Max core logging

Vein Stage	Major Minerals	Minor Minerals	Alteration Assemblage
Early	Quartz, K-feldspar, Magnetite, Chalcopyrite	bn, cpy, py, ab	KPOT
Transitional	Pyrite - magnetite	cpy, cc, qz	IPRO, NACA
Peripheral	Epidote -albite -pyrite	act - chl - cc	OPRO, IPRO
Late	Pyrite - calcite, QSPC	ser - qz - py -ill; Pb, Zn, cpy, Cu sulfate, Cu sulfosalt	QSPC
Post	bull qtz, chlorite - calcite		

Early-stage veins at Max are generally comprised of grey quartz with minor K-feldspar, subordinate magnetite-chalcopyrite, and occasional specks of galena and sphalerite. Early veins are usually undulated, and textures vary from massive to crudely banded. These veins are dominantly associated with monzonitic units and occasionally observed in Diorite-1 porphyry units.

Transitional-stage veins are rare on the Max property and only locally observed in drill core as very narrow to discontinuous pyrite stringers cutting Diorite-1 porphyry units.

Peripheral and late-stage veins are the most common vein types observed in drill core. Peripheral veins were dominantly observed as planar epidote stringers or veinlets with diffuse epidote halos. Late veins are primarily composed of calcite, often with interstitial white quartz, and may be banded with chlorite and/or pyrite (Figure 16). Veins and their constituent mineral assemblages are summarized in Table 3 above.

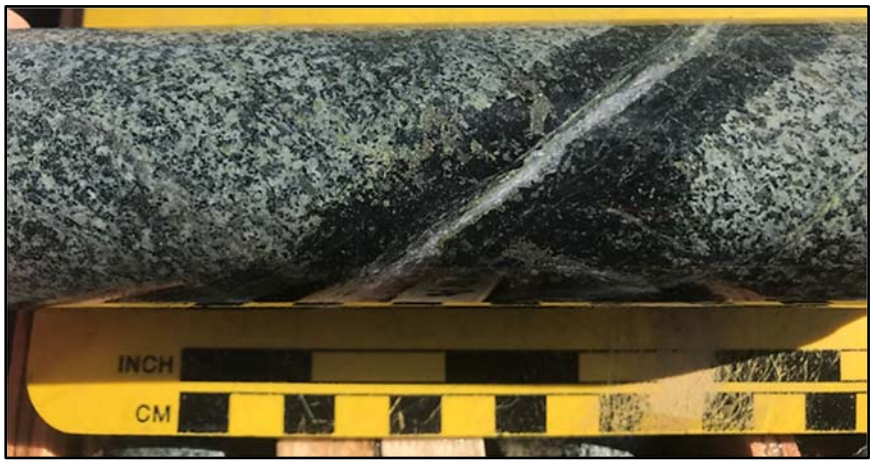

Figure 16: Carbonate-chlorite-pyrite vein from drill hole MAX20-30 at 255 m. Carbonate-chlorite-pyrite vein (2-3mm) with biotite/chlorite-pyrite halo (20mm). The inner vein may be reutilizing an older vein structure associated with the secondary biotite halo. The biotite is partially retrograded to chlorite. There is 3-5% pyrite as disseminations and in veinlets/fracture fill. Hostrock is diorite with mag-act overprinted by patchy epi-ser alteration. Alteration-mineralization appears to be associated with calc-potassic (prograde) and propylitic (retrograde) assemblages.

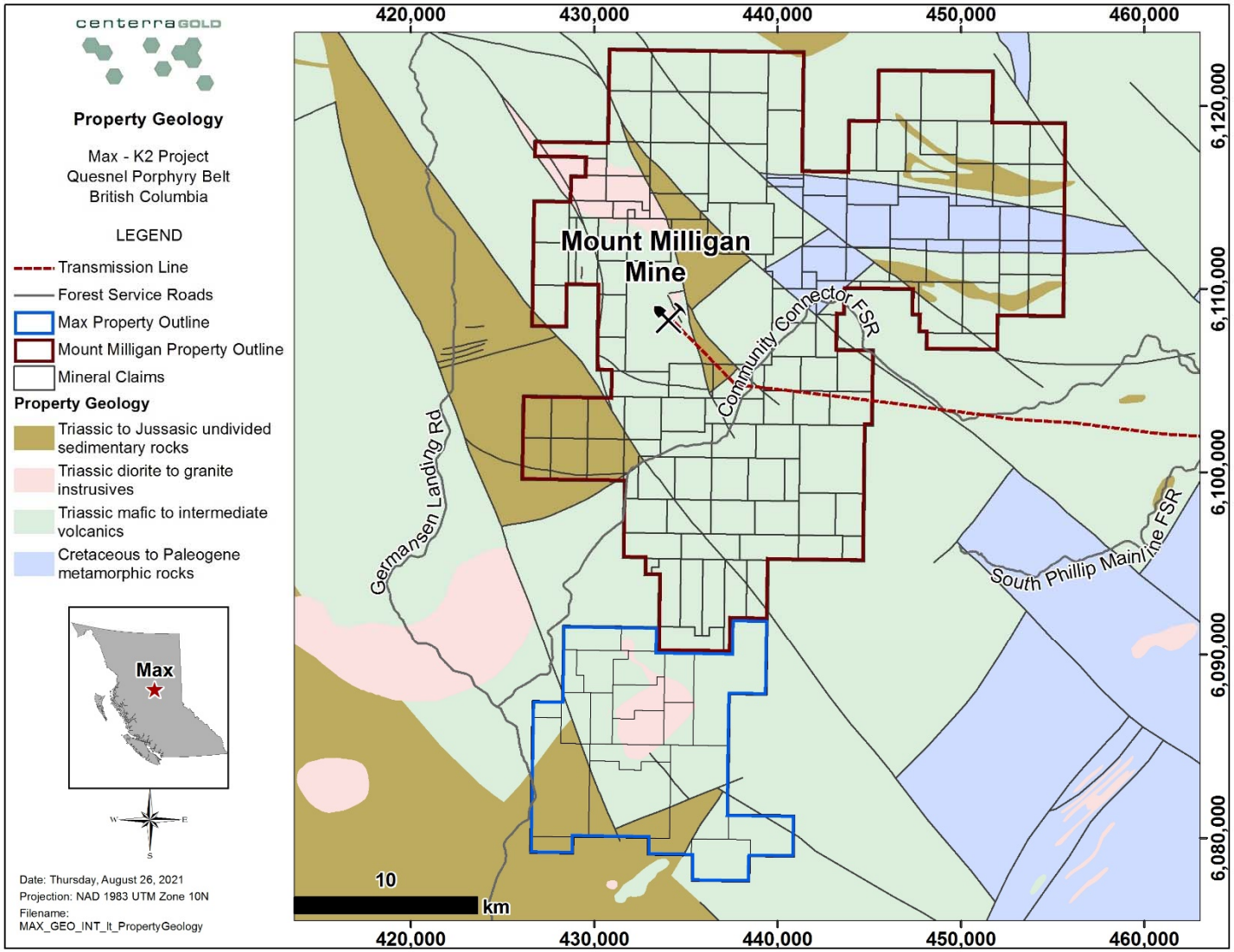

Figure 17: Max Property Geology

8 Property Mineralization

Previous work on the Max property have identified two showings named Max and K2. Each is briefly described below.

8.1 Max Showings (093K 020)

The Max showings comprise chalcopyrite and malachite bearing carbonate veins and local breccias. They have been mapped near the centre of the Max property to the north of the Max anomaly, a coincident magnetic high and soil geochemical anomaly centred on the Max Stock. Figure 18 below displays potassic altered diorite (upper image) and a chalcopyrite-pyrite vein within a calcite and epidote vein (lower image) from the Max showing. Figure 19 shows various lithologies and alteration styles from the Ring anomaly drilled in 2020, ~1.5 km west of the main Max showing.

8.2 K2 Showing (093K 086)

The K2 showing is located on the western side of the Max property within an area dominated by augite bearing mafic to intermediate flows, as well as volcaniclastic rocks with beds of poorly sorted epiclastic. The showing is a chalcopyrite- and malachite-bearing quartz-carbonate breccia-vein. Prospecting in the 2019 field program confirmed the location of this showing.

Table 4: K2 Showing significant samples

Sample ID	Year	Method	Au ppm	Ag ppm	Bi ppm	Cu ppm	Mo ppm	Zn ppm
322560	2007	Aq.Reg. ICPMS	0.026	40.8	0.56	7155	1.6	450
322559	2007	Aq.Reg. ICMS	0.022	1.8	0.17	1020	1.2	35
A00348486	2019	4 Acid ICPMS	0.022	0.8	ND	1112	1	26

The K2 showing is a hydrothermally brecciated quartz-carbonate vein exposed in a subcrop zone approximately 2 metres wide which trends southeast. The vein contains bleached and milled wall rock and is strongly hematite stained. Up to 30 per cent chalcopyrite with minor malachite and an unidentified grey-silver colored sulphide occur in the rock. The vein is hosted by clinopyroxene-rich flows and agglomerates of the Witch Lake Formation. Secondary biotite and epidote are locally abundant in the rocks around the showing. These alteration minerals are probably part of the large propylitic alteration halo associated with the large multiphase intrusion on the Max claims to the east.

A rock sample from the K-2 area in 2007 yielded up to 0.71 per cent copper and 40.8 grams per tonne silver from narrow quartz carbonate chalcopyrite filled shear zones in the K2 area (Blann, 2007). See Table 4 for significant sample results from the K2 showing.

Figure 18: Photos from MAX20-023. Top – MAX20-023 potassic alteration zone at 426 m. Strong selective-pervasive biotite alteration, 5-10% disseminated replacement pyrite (some very fine grained 'peacock' tones may be copper), weaker magnetite than higher up in drill hole and late calcite veinlets. **Bottom** – MAX20-024, 4 mm wide chalcopyrite pyrite vein within a calcite and epidote vein at 163.4 m. The vein is hosted by a quartz-sericite-pyrite-carbonate altered shear zone that extends from 162.22-164.7 m. Propylitic altered diorite occurs on either side.

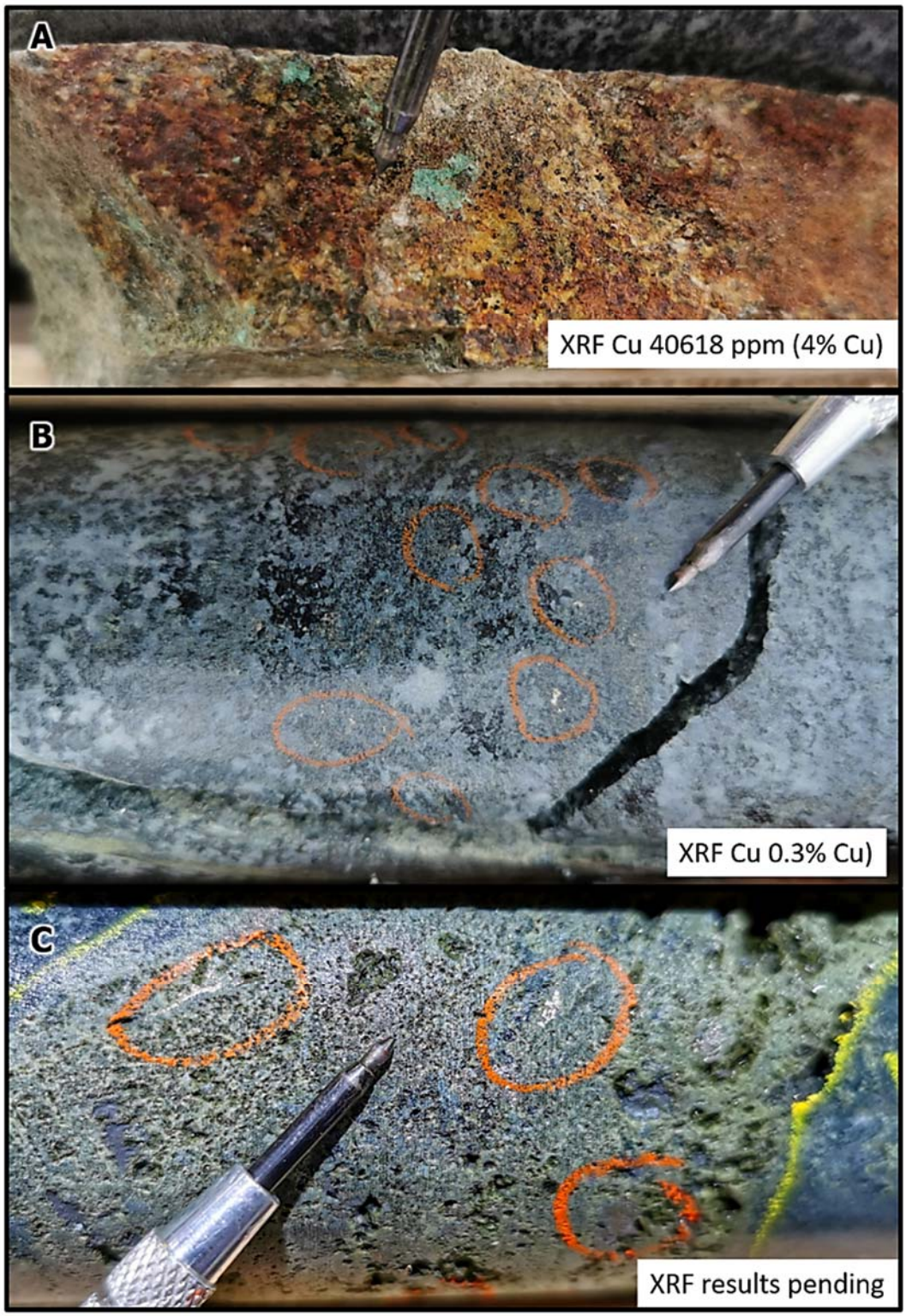

Figure 19: Detailed core photos of mineralization styles in drill hole MAX20-031 from the Ring anomaly. A: Malachite on oxidized surface within diorite at 35.55 m. B: Very fine-grained chalcopyrite in calc-potassic altered diorite at 168.65 m. C: Fine-grained chalcopyrite in a vuggy epidote-biotite(?) vein in diorite at 160.50 m.

9 Drilling

9.1 Program Design

Drilling at Max in 2020 was conducted in two phases, the first in June and the second from September to October. A total of 5441.0 m was drilled over 11 diamond holes (Table 5). Both programs were heli-supported and HQ fly drills were supplied by Omineca Diamond Drilling. Phase 1 utilized two diamond drills and Phase 2 utilized one rig. The Phase 1 drilling program targeted interpreted porphyry Au-Cu mineralization in the Central diorite with peripheral gold, and similar geology, geophysics signatures, structural trends, and geochemistry as the Mount Milligan deposit. The drilling also tested an Au-Cu anomaly generated in the 2019 RC drill program. Phase 1 ran from June 4th to June 23rd with an average drill rate of 102 m/day. A total of seven drill holes were completed from five pads in two main target areas, totaling 3,573 m.

The Phase 2 drilling program targeted the Ring anomaly, ~1.5 km west of the Phase 1 drilling area. Interpretation of the surficial geology indicates that the gold anomalous till, intersected in 2019 RC drilling and targeted in the Phase 1 program, was transported to MAX19-019 from a source situated approximately 2.0 to 2.5 km to the west. This coincides with the Ring anomaly, a geophysics target approximately 500 to 800 m in diameter. The Ring anomaly is defined by a magnetic high surrounded by a low with a large, ~2 km wide chargeability high ring (interpreted as a pyrite halo) at 250 m depth and a smaller low resistivity ring deeper at 350 m depth surrounded by a larger moderate-to-high resistivity ring (see Figure 21). Glacial flow direction in the area is mapped towards the east to northeast, suggesting that the unique shape (oval) and intensity of the magnetic anomaly combined with peripheral chargeability highs, in the so named 'Ring anomaly' may be a source for the surface soil geochemical anomalies which spread in an east-northeast direction, as well as the Au-Cu bearing boulders in the till that were intersected in 2019 (MAX19-019). The Ring anomaly was tested in the 2020 Phase 2 program with 4 diamond drill holes, totaling 1,865 m. The program ran from September 28th to October 15th with an average drill rate of 101 m/day. A plan map showing the locations of 2020 drill holes is displayed in Figure 20.

Table 5: Drill Hole Details

HOLE	*Easting (NAD_83)*	*Northing (NAD_83)*	*UTM Zone*	*Elevation (m a.s.l.)*	*Total Depth (m)*	*Gauge*	*AZI (Grid)*	*DIP*
MAX20-023	432907	6086776	10N	1261	450	NQ	90	-65
MAX20-024	433372	6086445	10N	1227	391	NQ	90	-65
MAX20-025	432510	6086780	10N	1309	383	NQ	270	-70
MAX20-026	432611	6086335	10N	1250	443	NQ	270	-85
MAX20-027	432510	6086780	10N	1309	744	NQ	90	-60
MAX20-028	432611	6086335	10N	1250	430	NQ	90	-53
MAX20-029	433146	6086617	10N	1239	735	NQ	90	-65
MAX20-030	431389	6086752	10N	1268	419	NQ	90.8	-62.3
MAX20-031	431098	6086857	10N	1254	414	NQ	113	-65
MAX20-032	431169	6087116	10N	1228	582	NQ	110	-65
MAX20-033	431750	6087200	10N	1270	450	NQ	115	-55
				Total	**5441**			

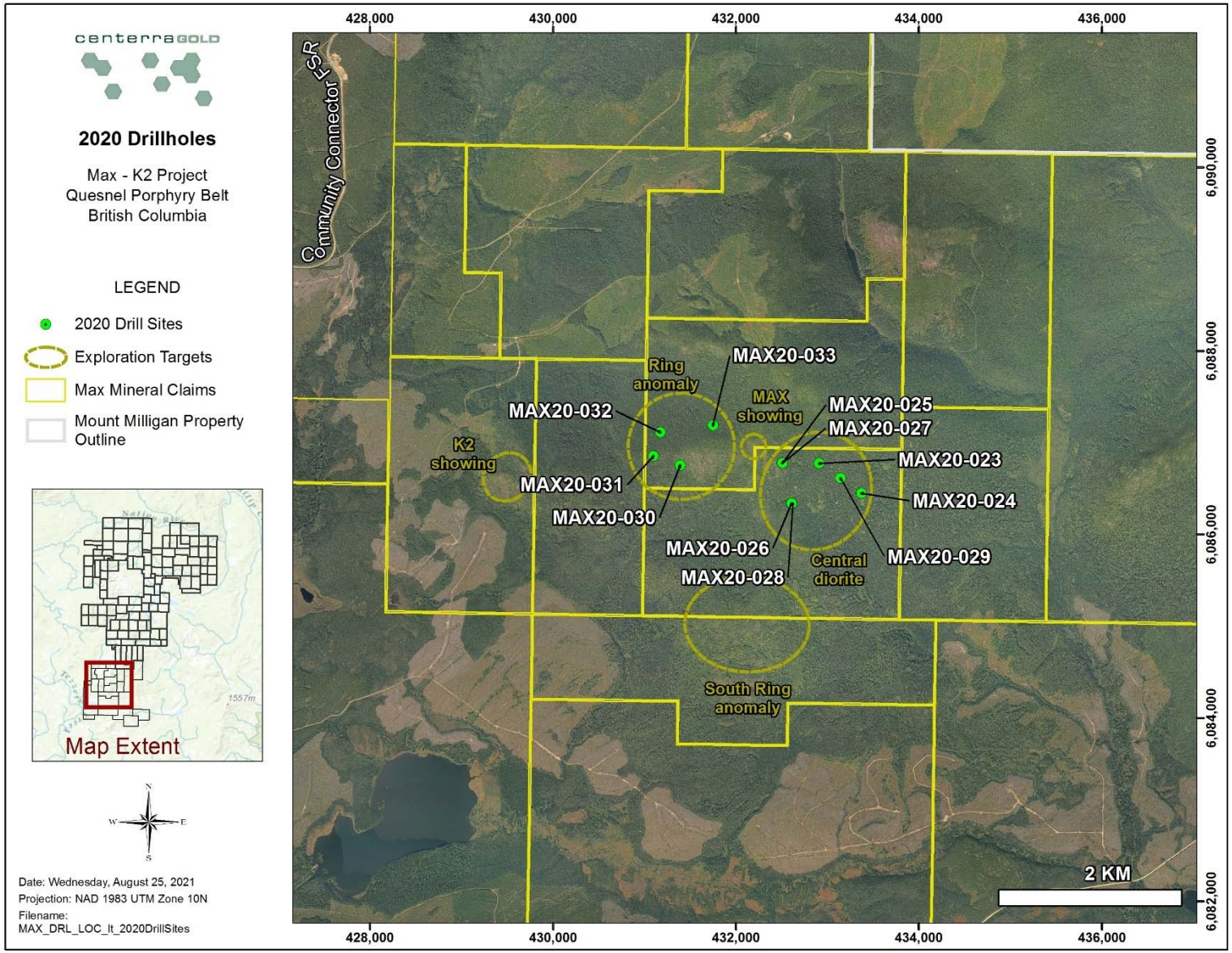

Figure 20: 2020 Max Drill hole Location Map

9.2 Program Logistics

The facilities at the Mount Milligan mine were used for lodging and staging of all crews and equipment for the duration of the program. Mine operations support was used for the program, including Site Services and Warehouse crews, as well as materials for core processing and logistical support. Diamond drilling in 2020 was managed in house by geologists with the Centerra Gold Services (CGS) Exploration department.

Drilling at the Max property was conducted by Omineca Diamond Drilling based out of Burns Lake, BC. A helicopter portable Discovery II Drill rig was used, capable of drilling HQ and NQ-sized core with an approximate maximum NQ coring depth of 1,285 m, though actual achievable depths are dependent on borehole conditions.

Drill support was largely completed using an AS350 B2 helicopter provided by Silver King Helicopters out of Smithers, BC. Supporting activities included transport of crews at crew change as well as slinging of fuel, water pumps, core boxes, and drilled core back to the Mount Milligan mine site. Pad building services were provided by Minconsult Services Ltd. based in Coldstream, BC.

9.3 Environmental Surveys

Helicopter pad and access trail preparation occurred immediately before drilling commenced and throughout the Phase 1 and 2 programs, preparing locations specifically for this drill program as briefly described in the report summary (page 1).

Ecofor Consulting Ltd. ("Ecofor") performed bird nesting surveys prior to new drill pad construction during Phase 1 drilling as the program overlapped with the regional nesting window from April 20th to August 15th (Gov. of Canada, 2021). The surveys were conducted by a qualified biologist and the surveyed area was then released for pad construction. No environmental surveys were required for the Phase 2 program. Survey Reports are contained in Appendix E.

9.4 Drill Rig Alignment and Down Hole Surveys

The azimuth of the drill rig was aligned with a handheld magnetic compass, the DeviSight™ alignment tool as well as fore- and back-sights laid out by geologists, to accurately position and align diamond drill hole collars. The dip of the drill hole was set either directly by using an inclinometer on the shaft of the rig's main frame or with the DeviSight™.

The DeviSight™ uses GLONASS and GPS satellites along with SBAS (Satellite-Based Augmentation Systems) correctional data to reach a northing/easting accuracy down to 30 cm. The achieved accuracy of the measurement improves with time and is listed in the display screen. The coordinates are measured according to the primary GPS, which is the antenna farthest from the keypad and closest to the clamp. The DeviSight™ uses the WGS84 datum as reference for UTM coordinates and elevation. Elevation is an estimate according to the WGS84 datum, where the measurement of the estimate has an accuracy of half the northing/easting accuracy. The DeviSight™ azimuth accuracy is 0.5°. It will take 3-5 minutes after start-up to achieve this accuracy, provided the GPS antennas are always facing up with an unobstructed view to the sky.

Down hole surveys for the Phase 1 drill program were completed with a Reflex EZ-Trac survey instrument. The measurements were taken at 50 m intervals during drilling to monitor drill hole orientation on an on-going basis, with additional surveys at the top and bottom of the hole. This ensured adequate data density, as no final drill hole survey was performed. The EZ-Trac has a magnetic compass to determine azimuth

and hence magnetic field strength was measured and used to monitor deviations from the mean. Azimuths were flagged as "false" if the field strength measurements were not within a range of approx. 5500 to 6300 nT. Azimuth measurements were corrected by adding the local magnetic declination value of 17.87° to obtain a true north reading.

Down hole surveys for the Phase 2 drill program were completed using the Reflex EZ-Gyro from Reflex. The gyro is a gyrocompass capable of capturing multi-shot point surveys, taken from the top of the collar to the bottom of the drill hole at 50 m intervals. Where practical, short surveys were conducted after casing and again at approximately 200 m depth, to check for excessive deviation.

Drill collar surveys for the Phase 1 program were completed using a Trimble GeoExplorer DGPS (model 6000 series) with post processing completed in Trimble's GPS Pathfinder Office software.

Drill collar surveys for the Phase 2 program were completed using a Bad Elf Flex DGPS (model BE-GPS-5500). The Bad Elf Flex consists of a receiver which connects via Bluetooth to a handheld phone, tablet, or PC. The receiver has an internal accuracy indicator and internal GNSS. GPS Settings allow the user configure settings for the GPS such as Antenna Settings\Pole Height. The GNSS height offset is measured from the base of the Bad Elf Flex to 58 mm above the top of the case. Vertical reference offset is 230 mm. Data points are collected through the Bad Elf App as instant and timed points and can be downloaded to a USB. All drill collar surveys were completed by CGS Exploration staff.

9.5 Core Handling

Geotechnical core logging was performed by Centerra Gold Services exploration crews and was conducted in the core handling facilities on site at Mount Milligan. Geotechnical logging included core recovery measurements, rock quality designation (RQD) calculations, and magnetic susceptibility measurements (every metre). Measurements were taken using a Terraplus KT-10 magnetic susceptibility meter.

Geological logging was based on the logging schemes developed for the Mount Milligan Brownfield program and recorded the same attributes and features. The logging geologists collected information about lithology, alteration, veins, structural features, sulphide and sulfosalt mineralization, and oxidation intensity. Geological data collection was primarily conducted using acQuire 4 logging software.

The core was photographed in sets of three boxes on a dedicated photo stand with labels visible. Core was photographed dry and wet for better visibility of geological features.

Core sampling was conducted by the logging geologist and comprised the complete hole from top to bottom. Sample intervals were determined by the logging geologist and ranged from 0.3 m to 2.0 m. Sample intervals were chosen to avoid crossing lithological or significant alteration boundaries. Core samples were identified with a unique sample ID tag and cut with an electric core saw. The labelled core half stayed in the box for reference and was stored at the Mount Milligan core storage located at the upper camp lodging facilities at 434800E 6106900N NAD83 UTM Zone 10N. The other core half was packaged in labelled poly plastic bags together with a sample tag, zip-tied and then placed in labelled and sealed rice bags, secured with tracked security tags. The samples were shipped via Mount Milligan warehouse services and Bandstra Transportation Systems Ltd. to Bureau Veritas Canada Inc. ("Bureau Veritas") in Vancouver, BC. Select batches from the Phase-2 drill program were shipped to SGS Laboratory in Surrey, BC.

Certified Reference Materials (CRM), blank samples, field duplicates and preparation duplicates were used

to monitor quality assurance and quality control (QA/QC) of the core sampling, processing, and assaying processes. CRMs and blank samples were inserted alternately into the sample sequence every 10 samples resulting in rates of 1 in every 20 samples for both CRMs and blanks. In addition, field and preparation duplicates were inserted alternately into the sample sequence at an approximate rate of 1 duplicate for every 40 samples. Five different CRMs were used in the 2020 program, three from OREAS (501C, 503D and 503C) and two from CDN (CDN-CM-28 and CDN-CM-43). The CRMs are certified for Cu and S at the %-level as well as Au, Ag and Mo at the ppm-level and were originally selected to match low-, medium- and high-grade mineralization ranges. The different CRM ranges were cycled through randomly during standard insertion. However, when possible, CRMs were matched to visually estimated grades in mineralized zones. The CRM material submitted was greater than 100 g to ensure re-analyses could be completed if necessary. One field duplicate or preparation duplicate was alternately inserted approximately every 40 samples. Half core was submitted for field sample duplicates. A sealed, empty sample bag with a sequential sample tag was submitted to the lab for preparation duplicates and a pulverized split of the preceding sample was taken as the preparation duplicate. Blank sample material consisted of clean coarse marble landscape rock that was purchased commercially in 18 kg bags. An average weight of approximately 2 kg was used for each blank sample. Blank samples were routinely inserted every 20th sample on even multiples of 10 in the sequence.

9.6 Analytical Techniques

A total of 3265 samples were sent for analysis from the 2020 Max drill program. Samples from the Phase 1 drill program were submitted to Bureau Veritas in Vancouver. Samples from Phase 2 were submitted to SGS laboratories in Vancouver.

A total of 2193 samples comprising 1916 drill core samples, as well as 110 reference material standards, 110 blanks and 57 preparation duplicates for QA/QC were sent to Bureau Veritas (BV) for precious metal (Ag, Au), base metal and trace element analysis. Drill core and blank samples were weighed, dried, and crushed to ≥70% passing 2 mm, with a 250 g split pulverized to ≥85% passing 75 µm. Gold was analysed by 30 g fire assay with an AAS finish (method code FA430). Over limits were triggered at Au ≥10 ppm and Ag ≥20 ppm resulting in re-analysis using a 30 g fire assay with gravimetric finish (FA530). Base metals were analysed by 4-acid digestion with an AAS finish of a 0.5 g split (MA404). Sulphur was analysed by combustion analysis (TC002). Additional elements were analysed using ICP-ES/MS and a four-acid digest of a 0.25 g split (MA200).

A total of 1072 samples comprising 938 drill core samples, as well as 53 reference material standards, 54 blanks and 27 preparation duplicates for QA/QC were sent to SGS Laboratories for precious metal (Ag, Au), base metal and trace element analysis. Drill core and blank samples were weighed, dried and crushed to ≥70% passing 2 mm, with a 250 g split pulverized to ≥85% passing 75 µm. Gold was assayed using a 30 g fire assay with atomic emission spectrometry (AAS) finish (SGS code GE_FAA30V5). Gold results ≥ 10 ppm (over upper detection limit of method) triggered 30 g fire assay with gravimetric finish (SGS code GO_FAG30V). Samples were also analyzed for a 49-element package (including copper and base metals) using a 4-acid digest and inductively coupled plasma mass spectrometry (ICP-MS) on a 0.25 g aliquot (SGS code GE_ICM40Q12). Copper, lead, and zinc were further analyzed by using a 4-acid digestion with inductively coupled plasma atomic emission spectroscopy (ICP-AES) finish. Sulfur >10% triggered Leco analysis (SGS code GE_CSA06V). Mercury was analyzed using an aqua regia digest and cold vapour with atomic absorption spectrometry (AAS) finish (SGS code GE_CVA37A25).

Assay methods used by TCM gold, silver and copper are listed under SGS ISO17025:2017 accreditation.

9.7 Reclamation

Drill sites were cleared by Minconsult, followed by helicopter and drill pad construction. Sumps for drill cuttings were built by hand and bordered with straw bales and silt fencing to catch and clear run-off. After the completion of the holes at a drill site, all materials were discarded into appropriate waste containers at Mount Milligan mine. The sumps were refilled and cut trees scattered across the pad to help re-vegetate the area naturally.

After drilling was completed on the pads, the drill collar location was surveyed, the drill casing was pulled, the holes were plugged with bentonite, the drill anchor was cut and removed, and drill pads and helicopter pads were disassembled. Drill pads and casing were left at three sites during the Phase 2 program with the intention of returning to these locations during future programs. Casing at these locations was capped.

9.8 Results

Diamond drilling was completed in two phases: Phase 1 between June 4th and June 16th, targeting the Central diorite, and Phase 2 between September 27th and October 14th, targeting the Ring anomaly. Holes drilled at the Max property and their corresponding cross-section lines are listed in Table . Drill hole locations are displayed in Figure 20. A summary of each hole is given in the sections below. Assay certificates are listed in Appendix H and complete drill logs listed in Appendix C.

9.8.1 Drill Hole Summaries

Phase 1 – Central Diorite

Phase 1 diamond drilling included 7 drill holes (MAX20-023 through MAX20-029) at depths ranging from 383-744 m, totaling 3,576 m. These drillholes targeted the Central diorite, following up on anomalous copper and gold concentrations from samples that were interpreted as bedrock during the 2019 RC drilling program. Bedrock in the 2020 diamond drill holes was encountered below the maximum depth of 2019 RC drilling so these bedrock anomalies have been reinterpreted as basal till anomalies. The Central diorite coincides with a shallowly west-dipping high resistivity anomaly and a zone of high chargeability shouldered by moderate to low chargeability anomalies. A synopsis of each drill hole is provided below.

9.8.1.1 MAX20-023

MAX20-023 was completed June 8th, 2020, at a total depth of 450 m, targeting the Central diorite.

The drill hole collared into 43 m of overburden. From 43-265 m, lithology alternates between medium-grained phenocryst-crowded diorite and intermediate volcanics as well as pyroclastic rocks, crosscut by finer-grained diorite dykes (<2 m wide). Intercalated intermediate volcanics and medium-grained diorites are observed from 265-330 m. A carbonate-cemented hydrothermal breccia crosscuts at 417-425 m, associated with localized strong pyrite mineralization. Contact angles between the andesite and diorite units averaged 10-20° to core axis, suggesting the drillhole skimmed along contacts (overall eastern dip of the diorite stock) or intersected multiple semi-vertical dykes cutting volcanic units. Notably, different diorite units have distinctive magnetic susceptibility readings, distinguishable in a magnetic susceptibility strip log. Significant fault zones were observed at 62 m, 186-188 m, and 296-299 m.

The primary alteration is outer propylitic (epidote-chlorite+/-carbonate) and inner propylitic (albite-epidote-chlorite+/-carbonate). Plagioclase-phyric diorite units are commonly weakly altered with plagioclase phenocrysts partially replaced by epidote-carbonate and crosscut by epidote-coated fractures.

The less phenocryst-crowded, medium-grained diorite units are potassically altered (K-feldspar; biotite-magnetite) and are notably less magnetic than both phenocryst-crowded diorite and andesitic volcanic units. Quartz-sericite-pyrite-carbonate alteration is spatially associated with fault structures.

Minor sulphide mineral occurrence is observed throughout (<2% pyrite as disseminations and stringers) with highly localized intervals of increased mineralization up to 15% pyrite. Chalcopyrite is observed locally as trace specks in K-feldspar altered diorite and rare clots (<3 mm) within carbonate-chlorite veins. No significant intercepts >0.2 g/t Au and >0.2% Cu were reported from assay results.

Considering contact angles and drilling direction, the eastern target stock could be dipping moderately to the east. If the potassic zone intersected at depth returns with promising assay results, drilling the target from the east towards west is recommended.

9.8.1.2 MAX20-024

MAX20-024 was completed June 8th, 2020, at a total depth of 391 m, targeting the Central diorite.

MAX20-024 cased to 6 m. Diorite is the dominant lithology with narrow intervals of andesitic pyroxene crystal tuff and andesitic tuff. Several different phases of diorite with the same composition are noted, varying in grain size and alteration. A medium grained diorite unit from 293.11-300.78 m was observed in contact with a shear zone. Shear zones commonly occur at contacts from andesite into diorite.

Diorite intervals are overprinted by inner propylitic (albite-epidote-chlorite+/-carbonate) alteration with albite and epidote obscuring textures while andesite units are quartz-sericite-pyrite-carbonate altered. Weakly-sheared diorite with associated quartz-sericite-pyrite-carbonate alteration and silica altered variations of grey diorite appear to have the same composition as the inner propylitic altered diorite. From 246.60-257.55 m, sodic-calcic alteration is characterized by very pale green albite flooding with local intersections of less-altered grey diorite. Shear zones within diorite have pervasive chlorite alteration, increased calcite veining and are weakly silicified.

Pyrite mineralization in the diorite averages 0.5%, locally reaching up to 3-4%. Specks of chalcopyrite are hosted in diorite at 167 and 173.8 m. A zone of chlorite-rich, sheared diorite from 269.7-275.82 m hosts 3% pyrite, specks of chalcopyrite and small blebs of honey-colored sphalerite. Sulphide mineralization appears to be concentrated in shear zones at contacts from andesite into diorite. Shear zones within the diorite, associated with more intense chlorite alteration, also carry increased pyrite and occasionally chalcopyrite as well as sphalerite. No significant intercepts >0.2 g/t Au and >0.2% Cu were reported from assay results.

9.8.1.3 MAX20-025

MAX20-025 was completed on June 12th, 2020, at a total depth of 383 m, testing a flat-lying resistivity high from 70 to 400 m depth with a low to moderate chargeability signature in the Central diorite area.

MAX20-025 cased to 4.5 m. From 4.5-265 m, lithology alternates between units of medium-grained phenocryst-crowded diorite and strongly silicified pyroclastic rocks as well as intermediate volcanics. A narrow (~6 m wide) finer-grained pinkish-grey monzonite was intersected at 63 m. From 265-383 m (EOH), phenocryst-crowded diorite is intercalated with intervals of monzonite. Significant fault zones were observed at 80-85 m and 124-125 m.

The primary alteration observed in diorite and andesite units is outer propylitic (epidote-chlorite+/-

carbonate). Monzonite and andesitic tuff units are overprinted by strong pervasive silica alteration.

Sulphide mineralization is weak throughout with <3% pyrite occurring as disseminations and stringers. Trace chalcopyrite is restricted to a localized clot at ~178 m. Sporadic orange-tan colored sphalerite occurs as crude vein banding and clots, associated with carbonate-quartz-chlorite veins. Assay results returned a 2-m intercept measuring 0.64 g/t Au and 0.01% Cu from 122 m depth, hosted in the strongly silicified, faulted contact of a diorite intrusion with andesitic volcanic rock.

9.8.1.4 MAX20-026

MAX20-26 was completed on June 13th, 2020, at a total depth of 443 m, targeting the western diorite and monzonite porphyry dykes associated with a moderately west-dipping high resistivity feature.

This drill hole alternates between varying types of diorite and andesite units. A heavily fractured and oxidized fine-grained andesite was intersected from the top of hole, transitioning into unoxidized andesite tuff with associated hornfels metasomatism to the end of hole. Intrusions include common diorite units throughout (10-80 m wide) and two narrow (<10 m wide) megacrystic monzodiorite intervals at 10 and 110 m. Significant fault gouge was noted from 113.7-122.35 and 150-152 m. A shear zone from 318.59-327.59 m is characterized by varying alteration including silicified sections with chlorite + sericite and a quartz-flooded zone hosting chalcopyrite.

Andesite is quartz-sericite-pyrite-carbonate altered with weak a propylitic overprint. The monzodiorite is weakly propylitic altered with minor quartz-sericite-pyrite-carbonate alteration. Diorite intervals are dominantly inner propylitic altered with patchy epidote and weak albite. Quartz-sericite-pyrite-carbonate alteration increases in shear zones.

Pyrite mineralization throughout averages 0.5%, locally increasing to 4% in faulted sections. Chalcopyrite occurs in specks associated with chlorite and calcite veining in faulted andesite at ~130 m, and in sheared diorite at ~290 m. Chalcopyrite is also noted on surfaces associated with quartz flooding within a significant shear zone at 323.7 m. As seen in MAX20-024, shear zones and contacts tend to host increased sulphide mineralization. Assay results returned a 2 m intercept of 0.50 g/t Au and 0.03 % Cu at 122 m depth, hosted in a fault zone.

9.8.1.5 MAX20-027

MAX20-027 was completed on June 19th, 2020, at a total depth of 744 m, targeting the down-dip extension of potassic alteration intersected in MAX20-023 at ~450 m and testing the presence of an inferred fault projected at ~230 m.

MAX20-027 cased to 4.5 m. From 4.5-220 m, lithology alternates between medium-grained phenocryst-crowded diorite units and andesitic tuffs. A narrow (~15 m wide) finer-grained pinkish-grey monzonite unit was intersected at 85 m. A weakly mineralized, texture-destructive shear crosscuts at 220-260 m, with foliation angles that are shallow to core axis (10-25°). Repeating units of diorite, andesitic tuffs and fine-grained volcanics with intermittent monzonite dykes (4-10 m wide) are intersected from 260-570 m. Significant semi-vertical shear zones (low angle to core axis) were intersected at 220-260 and 570-703 m; strong shearing from 570-703 m obliterates most primary textures. The drillhole ended in fine-grained andesitic volcanic rocks from 703-744 m (EOH).

The primary alteration observed in diorite and highly altered andesite units is outer propylitic (epidote-chlorite+/-carbonate). Monzonite and andesitic tuff units are overprinted by strong pervasive silica

alteration. Strong potassic (biotite-magnetite) alteration envelopes carbonate-chlorite veins and is also spatially associated with shear zones.

Sulphide occurrence is primarily fine-grained pyrite as finely disseminated grains and crude bands parallel to shear foliation. On average, pyrite mineralization is weak (<2%) with localized increases (5-20%) directly associated with potassic alteration. Assay results returned three significant intervals:

- A 2 m intercept of 0.38 g/t Au and 0.01 % Cu at 195 m depth, coincident with narrow fault zones cutting potassically altered diorite.
- A 2 m intercept of 0.45 g/t Au and 0.03 % Cu at 462 m depth, hosted in fractured andesite volcanic rock.
- A 2 m intercept of 0.59 g/t Au and 0.04 % Cu at 652 m depth, hosted in sheared to faulted volcanic rocks.

9.8.1.6 MAX20-028

MAX20-028 was completed on June 16th 2020, at a total depth of 430 m, targeting the western diorite and monzonite porphyry dykes.

MAX20-028 cased to 2 m. This drill hole alternates between diorite and andesite tuff, predominantly diorite. Andesite and diorite units were intermixed, likely due to drilling along contact between the two units. This mixing zone often resulted in a brecciated texture with a diorite groundmass surrounding clastes of andesite. Andesite units are predominantly comprised of crystal tuff and lesser finer-grained intermediate andesite dykes with sharp contacts to diorite. A hydrothermal breccia unit was observed from 217.3 to 221.4 m.

From the top of hole to 26.6 m, oxidized andesite is overprinted by weak chlorite-hematite-calcite alteration. The medium grained diorite is inner propylitic altered, displaying weak to moderate epidote and trace albite, while the finer-grained diorite is outer propylitically altered with patchy epidote. The andesite is affected by weak quartz-sericite-pyrite-carbonate alteration, often overprinted by weak silicification. Diorite is generally strongly magnetic relative to andesite.

Pyrite averages 3% to 160 m, decreased to ~0.5% below. A localized sphalerite (up to 8%) occurrence was noted at 125.3 m. No significant intercepts >0.2 g/t Au and >0.2% Cu were reported from assay results.

9.8.1.7 MAX20-029

MAX20-029 was completed on June 24th 2020, at a total depth of 735 m, targeting the Central diorite.

This hole is dominated by different phases of diorite with sparse narrow andesite tuff units, crosscut locally by intermediate weakly porphyritic monzonite to monzo-diorite dykes (2-11 m wide). A fault zone with fault breccia, gouge, and slickenlines occurs from 135.6-138.0 m. A second weakly to moderately developed damage zone was logged from 580.0-582.0 m. A mylonitic shear zone with strongly developed shearing is evident from 302-361 m, with strong alteration obscuring the host rock.

The diorite is outer propylitic (epidote dominant) altered from the top of the hole to ~147 m. From 147-677.30 m, alteration overprinting the diorite package alternates between inner propylitic (weak to moderate epidote and trace albite) and potassic (dark chlorite-biotite, magnetite, vein halo K-feldspar). The hole terminates in outer propylitic alteration from 677-735 m. Secondary quartz-sericite-pyrite-carbonate alteration occurs in fault zones and preferentially in narrow andesite and dyke units.

Overprinting clay-carbonate-chlorite alteration is common in brittle fault zones, as well as within the mylonitic shear zone.

From top of hole to 302 m, pyrite mineralization ranges from trace to 2% occurring as disseminations. Pyrite increases locally to 6% as disseminations and stringers, hosted in 2-28 m wide potassic altered diorite units. From 302-361 m, 20% pyrite and 0.1% chalcopyrite occur with 2% early veins. The zone is hosted in a mylonitic shear zone with disseminated pyrite and early quartz veins with chalcopyrite and molybdenite mineralization. From 361-371 m, pyrite ranges from 1-6% as disseminations associated with intervals of potassic alteration and within epidote-calcite veinlets/stringers. A 50 m wide interval of 6% pyrite, 0.2% chalcopyrite occurs in a potassic altered diorite at 371 m with pinkish quartz veins. From 361-735 m, pyrite ranges from 1-6% as disseminations associated with intervals of potassic alteration and within early quartz veins and epidote-calcite veinlets/stringers. Pyrite concentration increases to 10% from 448-449.7 m, in a potassic altered shear zone, and from 581-585.5 m, in a quartz-sericite-pyrite-carbonate altered diorite to monzo-diorite with weak foliation and irregular clots of pyrite mineralization. A lower zone of chalcopyrite mineralization occurs as 0.1% chalcopyrite in late calcite veins from 612-623 m in a potassic overprinted by QSPC altered monzonite to monzo-diorite. 0.1% chalcopyrite with 5% early quartz veins and 6% pyrite occurs in potassic altered diorite from 650-677.30 m. The hole was terminated in propylitic altered diorite with 0.5% pyrite disseminations and trace cm-scale quartz veinlets. Assay results returned a 2 m intercept of 0.75 g/t Au and 0.02% Cu at 533 m depth, hosted in potassically altered diorite.

Phase 2 – Ring Anomaly

Phase 2 diamond drilling included 4 drill holes (MAX20-030 through MAX20-033) at depths ranging from 414-582 m totaling 1,865 m. These drill holes tested a geophysics target called the Ring anomaly, characterized by ring-shaped zone of high chargeability and resistivity coincident with a magnetic destructive low observed in the 2019 induced polarization and 2020 aeromagnetic surveys. A synopsis of each drill hole is provided below.

9.8.1.8 MAX20-030

MAX20-30 was completed on Oct 2nd, 2020, at a total depth of 419 m, testing the Ring anomaly. On cross-section, this hole collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260 m. The collar location coincides with a Cu-Au-Mo normalized soil geochemical anomaly.

MAX20-030 comprises a diorite sequence with minor intervals of pyroxene-phyric andesite tuffs and flows from 108.8-225.2 m. Diorites and andesites are intruded by three narrow (~3 m wide) porphyritic monzonite(?) dykes at 111.6, 181.5, and 273.35 m, as well as scattered later-stage mafic to intermediate composition dykes (3-10 m wide).

All units are weakly to moderately epidote-chlorite ± carbonate altered. In the upper 230 m of the drill hole, units are overprinted by weak to moderate silica alteration (occurring where the resistivity signature is moderate to strong), as well as in monzonite porphyry dykes.

Weak sulphide mineralization occurs throughout the drill hole with pyrite averaging 0.5-2%, and localized intervals up to 4% at andesite/diorite contacts. There are trace amounts of chalcopyrite noted as specks (0.01-0.1%) within early quartz-K-feldspar veinlets and late calcite stringers from 275-380 m. No significant intercepts >0.2 g/t Au and >0.2% Cu were reported from assay results.

9.8.1.9 MAX20-031

MAX-20-031 was completed on Oct 5th, 2020, at a total depth of 414 m, testing the Ring anomaly. In section, the hole targets a shallow chargeability low and resistivity high. The collar location coincides with a Cu-Au-Mo normalized soil geochemical anomaly.

MAX20-031 predominantly intercepts a diorite sequence with a 4.5 m unit of andesite flow at 232 m. The diorite package is intruded by four porphyritic monzonite (~2-10 m wide) and two mafic (<5 m wide) dykes.

All units are weakly to moderately epidote-chlorite ± carbonate altered (propylitic). Within the diorite are several 20-50 m wide intervals of calc-potassic alteration (epidote-actinolite-biotite-albite-magnetite).

Weak sulphide mineralization occurs throughout the drill hole with pyrite averaging 0.5-2%, and several zones of significant chalcopyrite mineralization. At 35.55 m, malachite was noted on an oxidized fracture plane. Chalcopyrite occurs in three intervals, ranging from 30 to 60 m thick, generally as very-fine grained specks disseminated in groundmass (locally up to 1% within select 5 cm intervals), and as occasional clots < 5mm. Assay results returned a 2 m intercept of 2.74 g/t Au and 0.02 % Cu at 278 m depth, hosted in inner propylitic alteration at the contact between diorite and monzonite intrusions. This represents the highest-grade intercept of the drill program.

9.8.1.10 MAX20-032

MAX20-032 was completed on Oct 11th, 2020, at a total depth of 582 m, targeting below a chargeability high at the Ring anomaly. The collar location coincides with a Cu-Au-Mo normalized soil geochemical anomaly.

MAX20-032 is predominantly a diorite sequence with sparse narrow (<1 m wide) andesite units. The diorite package is intruded by three, ~2-6 m wide porphyritic monzonite dykes and two <5 m wide mafic dykes. Two different phases of hydrothermal breccias occur at 224.55 and 311.0 m. The shallower hydrothermal breccia is strongly quartz-sericite-pyrite-carbonate altered with carbonate-chlorite-hematite cement. The deeper magmatic-hydrothermal breccia has rotated and displaced (chaotic type) sub-rounded, meso- to leucocratic diorite clasts in a monzonite porphyry groundmass/matrix.

All units are weakly to moderately propylitically altered (epidote-chlorite ± carbonate). Weak quartz-sericite-pyrite-carbonate overprints from ~77-240 m, defined by glassy silicification and strongly developed quartz-sericite-pyrite-carbonate alteration envelopes on carbonate veins and in hydrothermal breccias from 190-240 m. The diorite is potassic altered from 390-410 m defined by biotite replacement of mafic phenocrysts, a moderate to strongly magnetic signature, and a calc-potassic assemblage of epidote-actinolite-biotite-magnetite.

Sulphide content is low throughout the drill hole, ranging from 0.1-1.0% pyrite. Pyrite increases locally up to 5.0% from to 192-317 m as stringers, disseminations, and cementing hydrothermal breccia. Intervals of chalcopyrite were intersected throughout the hole in concentrations of 0.1-0.2% chalcopyrite over 50 to 150 m. No significant intercepts >0.2 g/t Au and >0.2% Cu were reported from assay results.

9.8.1.11 MAX20-033

MAX20-033 was completed on Oct 14th, 2020, at a total depth of 450 m, targeting the northeast portion of the Ring anomaly chargeability high. The drill hole was collared ~570 m east of MAX20-032, up-dip on a shallowly, west-dipping chargeability high feature. It is within a magnetic destructive area proximal to a

regional ENE structure. On cross-section it would drill through a chargeability high with moderate-to-high resistivity. The collar location coincides with a bulls-eye shaped Mo-in-soil geochemical anomaly.

MAX20-033 predominantly intercepts a diorite sequence and includes a mixed package of andesite flows and tuffs from 98.5-180.0 m. The diorite suite is intruded by four, < 5 m wide porphyritic monzonite dykes. A brittle fault was intersected from 129.3-130.5 m defined by shearing with carbonate-chlorite-hematite-pyrite-epidote assemblage, and gouge seams.

All units are weakly to moderately epidote-chlorite ± carbonate altered (propylitic). Andesite volcanics from 160-180 m are inner propylitic altered, defined by strong patches of pervasive albite alteration.

Pyrite content ranges from 0.5-3% pyrite as disseminations and stringers. An interval crosscut by ~3 cm wide semi-massive pyrite-calcite veins occurs from 136.5 m (18.50 m wide) and 160.0 m (20.0 m wide). One of these veins at 178.5 m has visible molybdenite and chalcopyrite (spot XRF value of 7.9% Cu and 1.54% Mo along fracture plane within vein). Three intervals of trace chalcopyrite + pyrite were logged from 73-97, 180-211, and 333-422 m. Alteration and mineralization are predominantly peripheral in signature. Assay results returned a 1.55 m intercept of 1.28 g/t Au and 0.04 % Cu at 167.45 m depth, hosted in propylitically altered andesitic volcanic rocks.

9.8.2 Results Summary

Phase 1 drilling intersected mixed packages of diorite and intermediate volcanic flows and tuffs. These are crosscut by localized swarms of narrow monzonite intrusions. At least three phases of alteration were identified in core logging. Inner to outer propylitic alteration (epidote, chlorite ± albite-calcite) is the earliest stage and is pervasive in all drill holes, suggesting early ambient fluid circulation. Potassic alteration (magnetite, biotite) is restricted to discrete units 1-60 m wide, often with sharp ± sheared upper and lower contacts with propylitic altered diorite. These units are preferentially altered and host significant (up to 15%) disseminated and veinlet pyrite, as well as up to 5% early quartz veins. These discrete intervals may represent a preferentially altered calcareous volcaniclastic units or dykes more permeable/reactive than the surrounding diorite, supported by skarn-like alteration assemblages – biotite, magnetite, epidote, ilmenite or titanite, tremolite/actinolite, and late calcite. The strong alteration makes it difficult to distinguish the protolith. Potassic alteration has not been intersected along the southern section line, implying there is a southern limit to the potassic alteration zones, or that the southern drill holes would need to be extended deeper to intersect them.

Lastly, retrograde chlorite-rich propylitic alteration, as well as structurally controlled quartz-sericite-pyrite-carbonate alteration restricted to major faults, overprint the other assemblages. A significant and mineralized fault with well-developed gouge, tectonic breccia, and shearing was intersected in MAX20-026 and MAX20-027. In MAX20-029, a second major fault was intersected. This fault occurs as a mylonitic shear zone with internal drag folding, pressure shadows on altered pyroxene crystals, and c-s fabrics. Rare chalcopyrite is hosted in uncommon early quartz veins with chlorite and pyrite, as well as with calcite veinlets in fault zones. Sphalerite and galena were also noted in early quartz veins.

Assays for all Phase 1 drill holes returned narrow (up to 2 m) intercepts of 0.1 to 0.7 g/t gold mineralization and 300 to 3,000 ppm copper in intervals 5-30 m wide. Significant intersections are hosted in andesite volcanic rocks and diorite or monzodiorite intrusive units with faulted and fractured lithological contacts. Mineralization is associated with fault zones overprinted by quartz-sericite-pyrite alteration, local biotite-magnetite shears, and intervals with increased transitional-early vein density. Assay values of 1200 ppm

Zn, 3914 ppm Pb and 7.5 g/t Ag correlate with intervals of logged sphalerite and galena mineralization in quartz veins within sheared and potassic altered mafic dykes at the bottom of MAX20-029. There are no strong geochemical correlations with gold and weak geochemical associations with Zn (100-200), K, Ca, Mn, and Ag (0.5-1 g/t). The alteration, vein types, and geochemistry suggest a hydrothermal environment peripheral to a porphyry system. Significant intersections are summarized in Table .

Significant intersections in the Ring anomaly, targeted in Phase 2 drill holes, are hosted in diorite with narrow monzonite porphyry units, and along their lithological contacts. Alteration is inner to outer propylitic with weak secondary biotite alteration, a moderate to strong magnetic signature, and is locally overprinted by quartz-sericite-pyrite-carbonate alteration or silicification. Pyrite-chalcopyrite mineralization is mainly replacement disseminated or fracture fill and can also be vein-hosted.

All narrow intervals of low-grade porphyry mineralization (averaging ~1:1 ratio Au:Cu) intercepted during the Phase 2 program are hosted in medium-grained diorite with weak secondary biotite alteration, a moderate to strong magnetic signature, patchy silica flooding, and fracture coating epidote-chlorite alteration. Up to 1% fine-grained pyrite occurs as disseminations and discontinuous stringers. Locally up to 0.7% chalcopyrite occurs as disseminations and clots (< 3 mm) associated with epidote stringers. Significant intersections also host chalcopyrite within scattered early magnetite-quartz and quartz-k feldspar veins. Chalcopyrite may also occur as trace ultra-fine specks associated with groundmass epidote alteration.

Table 6: Significant Drill Intersections for 2020 Max Drilling Programs

Diamond Drill hole	Significant Intersections (*0.1 g/t Au or 0.1% Cu cut-off, 4.0 m waste limit*)
MAX20-025 (Central diorite)	2.0 metres @ 0.64 g/t Au, 0.01% Cu from 122.0 metres
MAX20-027 (Central diorite)	2.4 metres @ 0.45 g/t Au 0.03% Cu from 462.0 metres.
MAX20-029 (Central diorite)	2.0 metres @ 0.73 g/t Au, 0.02% Cu from 533.0 metres.
MAX20-031 (Ring anomaly)	2.0 metres @ 2.47 g/t Au, 0.02% Cu from 278.0 metres
MAX20-032 (Ring anomaly)	8.0 metres @ 0.14 g/t Au 0.11% Cu from 85.0 metres 7.0 metres @ 0.12 g/t Au 0.08% Cu from 185.0 metres 8.0 metres @ 0.07 g/t Au 0.12% Cu from 300.0 metres 4.0 metres @ 0.18 g/t Au 0.41% Cu from 464.0 metres
MAX20-033 (Ring anomaly)	1.6 metres @ 1.28 g/t Au, 0.04% Cu from 167.5 metres

10 Geophysics Work - 2020

Geophysical work completed in 2020 consisted of 21 line-km of Induced Polarization survey, and 963 line-km of aeromagnetic survey collected by Peter E. Walcott & Associates Limited.

10.1 Ground Induced Polarization Survey

Ground Induced Polarization (IP) surveys were carried out over two separate phases, from September 24th to October 7th and from November 11th to 25th, 2020. A total of 21 line-km of ground IP survey was completed over 5 lines, testing the Ring anomaly and the South Ring target.

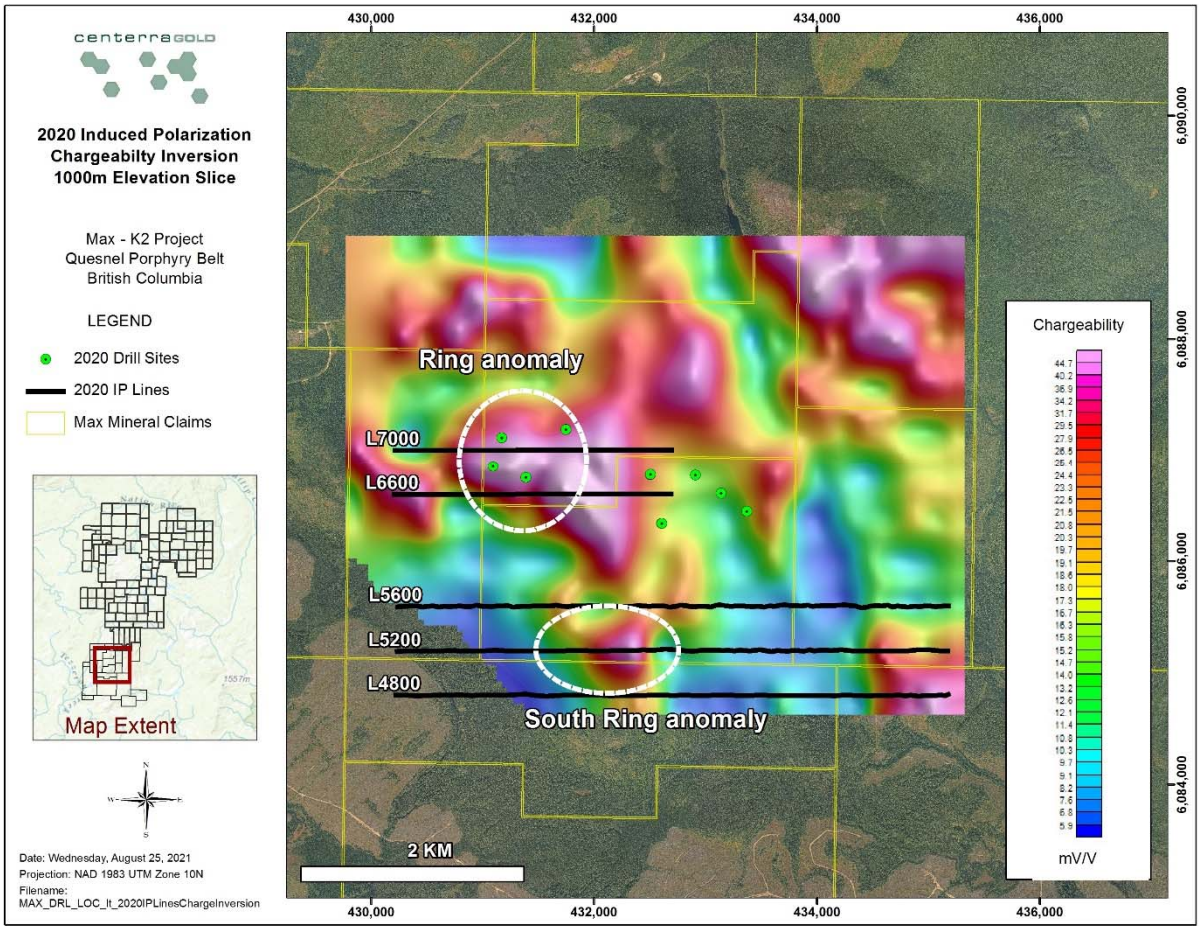

Figure 21: 2020 Induced Polarization Lines

10.1.1 Ring Anomaly

The Ring anomaly was surveyed in November 2020. It is defined by a magnetic high surrounded by a low with a ~2 km wide chargeability high ring, interpreted as a pyrite halo at 250 m depth, and a smaller low resistivity ring deeper surrounded by a larger moderate-to-high resistivity ring at 350 m depth. Two ~2.5 km long IP survey lines were designed to infill the existing 400 m spaced IP lines across the Ring anomaly (L7000N and L6800N) at 200 m spacing. The dipole (a) spacing was optimized for deeper resolution to image the geometry of the porphyry system at depth, testing ~350 m deeper than what was previously surveyed.

10.1.2 South Ring Target

Two 5-km IP lines were designed to continue the 2019 IP grid to the south (L5600N and L5200N, Figure 21), which identified a geophysical anomaly defined by a chargeability high with a magnetic low

surrounded by a semi-circular magnetic high ring, named the South Ring target. A third 5-km IP line (L4800N) was added to expand the grid to the south for full coverage of the South Ring target.

10.1.3 Survey Specifications

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C1, and the potential electrodes, P1 through Pn+1, are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C2, is kept constant at "infinity". The distance, "na" between C1 and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse. The survey reads both the pole-dipole and dipole-pole geometries placing the current electrodes between receiving electrodes measure half n measurements. On this survey a 100-metre dipole was employed and first to fifteenth separations readings were obtained.

10.1.3.1 Horizontal and vertical control

The horizontal position of the stations was recorded using a GPS/GLONASS equipped Garmin C66 handheld GPS receiver.

10.1.3.2 Data Presentation

The data are presented as individual pseudo section plots of apparent resistivity and apparent chargeability at a scale of 1:10,000 generated using Geosoft Oasis Montaj. In addition, data was subjected to 2D inversion and presented as sections at a scale of 1: 10,000.

10.1.4 Survey Results

Survey results are displayed in Appendix F. When viewed in context with pre-existing IP data, the project area consists of two broad chargeability anomalies and three types of resistivity anomalies including low, intermediate, and high.

The two main chargeability anomalies trend roughly northwest – southeast and occur on the western and eastern sides of the survey area. The western region is characterized by a high chargeability anomaly coincident with an area of low electrical resistivity and low magnetic field, interpreted to represent volcanic-sedimentary rocks with intercalations of siltstones and mudstones. The eastern region is more complicated and comprises several zones. It is characterized by a generally increased and high resistivity with variable intensity of chargeability anomalies. The strongest of these coincide with resistivity highs and are situated mainly outside the magnetic anomaly. Chargeability highs of medium and weak intensity are located mainly above the Central diorite and often coincide with lows in magnetic field and the edges of resistivity highs. Some medium intensity chargeability with low resistivity anomalies are clearly controlled by meridional fault zones.

10.2 Airborne Magnetic Survey

Between October 12th and 16th, 2020, Peter E. Walcott & Associates Limited undertook a heli-borne magnetic surveying over parts of the Max mineral property, for Thompson Creek Metals Co Inc.

The surveys consisted of some 963 line-km of airborne magnetics. The surveys were flown on east-west orientated lines flight lines with a nominal line spacing of 100 m, with orthogonal tie lines with a nominal line spacing of 1000 m. Figure 22 shows the extents of the survey area. Access to the grid was obtained

from the Blue Stain camp by helicopter.

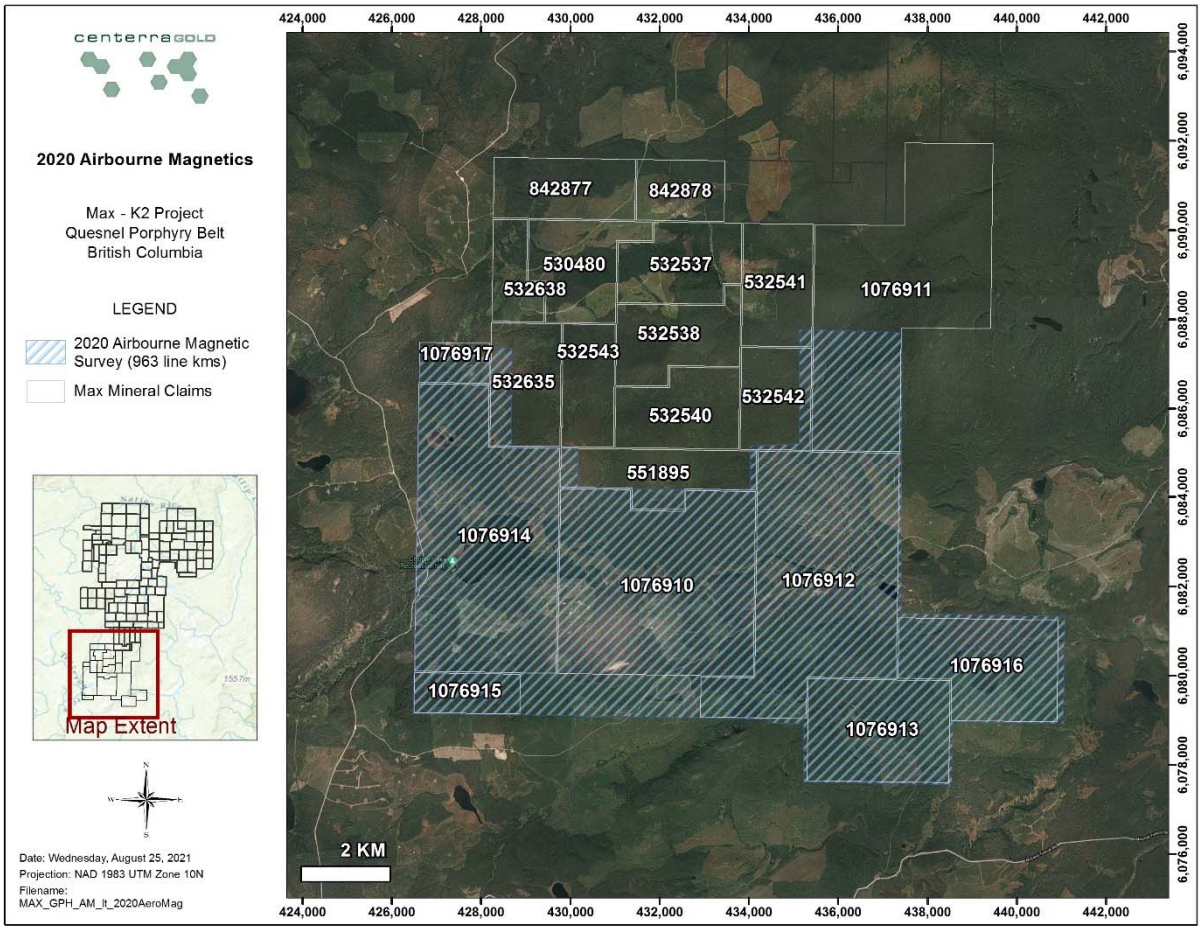

Figure 22: Outline of Airborne Magnetic Survey Area

10.2.1 Survey Specifications

The airborne magnetic survey was conducted using a stinger type system mounted on an ASTAR helicopter operated by Silver King Helicopters Ltd of Smithers, British Columbia. The stinger unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, Bartington Mag-03 Fluxgate, and Optilogic RS-400 Laser Range Finder The C-824 Cesium Magnetometer is an extremely sensitive magnetic sensor capable of providing sensitivity up to 0.01 nT and sampling rates up to 1000 Hz. On this survey a sampling rate of 50 Hz was employed. The Mag-03 was connected to a Kana8 24-bit digitizer inside the helicopter, where the analog output from the X, Y, and Z components where digitized and synchronized to a GPS timing signal.

The respective digital outputs, were connected to a logging computer where the respective input was synchronized to an NTP time server, utilizing a GPS timing signal. Flight line navigation data and helicopter height data was obtained using Hemisphere R330 GNSS receiver and Optilogic RS400 later range finder with a 10 Hz update rate. Data logging and navigation were carried out utilizing Picoenviotech ANAV software on a Panasonic CF-19 Toughbook computer with a secondary 7” daylight viewable pilot

navigation monitor.

In addition to the airborne unit the survey also utilized two GSM 19 overhauser magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario as base magnetometers. These instruments measure variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla.

The surveys were carried out with a mean bird height of some 52 m. Table 7 displays survey information.

Table 7: Airborne Magnetic Survey Details

Survey Area	Number of Lines	Number of Tie Lines	Total Distance
Max South	137	16	963 line-km

10.2.1.1 Data Processing and Presentation

The data was first exported from MagLogPro, where the various sensor inputs were merged into Geosoft compatible ascii files. This merged dataset was then loaded into Geosoft Oasis Montaj for data reduction and processing. The data was first corrected for diurnal magnetic drift, utilizing the magnetic base stations. The data was then lag corrected to account for positioning errors due to instrument delay and other positional errors. Tie line levelling was then undertaken prior to gridding.

Gridding was then undertaken on the levelled line data utilizing Geosoft's Bigrid algorithm using a 12.5 metre cell size. The reduced and leveled data set was then subject to several filtering techniques using the Geosoft MagMap module for evaluation and presentation. The magnetic data for each of the respective blocks presented in this report is Contours of Total Magnetic Intensity, and Contours Calculated First Vertical Derivative.

10.2.2 Survey Results

Survey results are displayed in Appendix G.

The aeromagnetic survey was flown over the southern portion of the Max claim block as well as the extended claim package to the south acquired by TCM in 2020. A map of the raw magnetic data, merged with the historical data set, reveals additional targets across the property with a similar signature as the Ring anomaly, defined by halos of destructive magnetic signature surrounding magnetic high anomalies (Figure 1Figure 23).

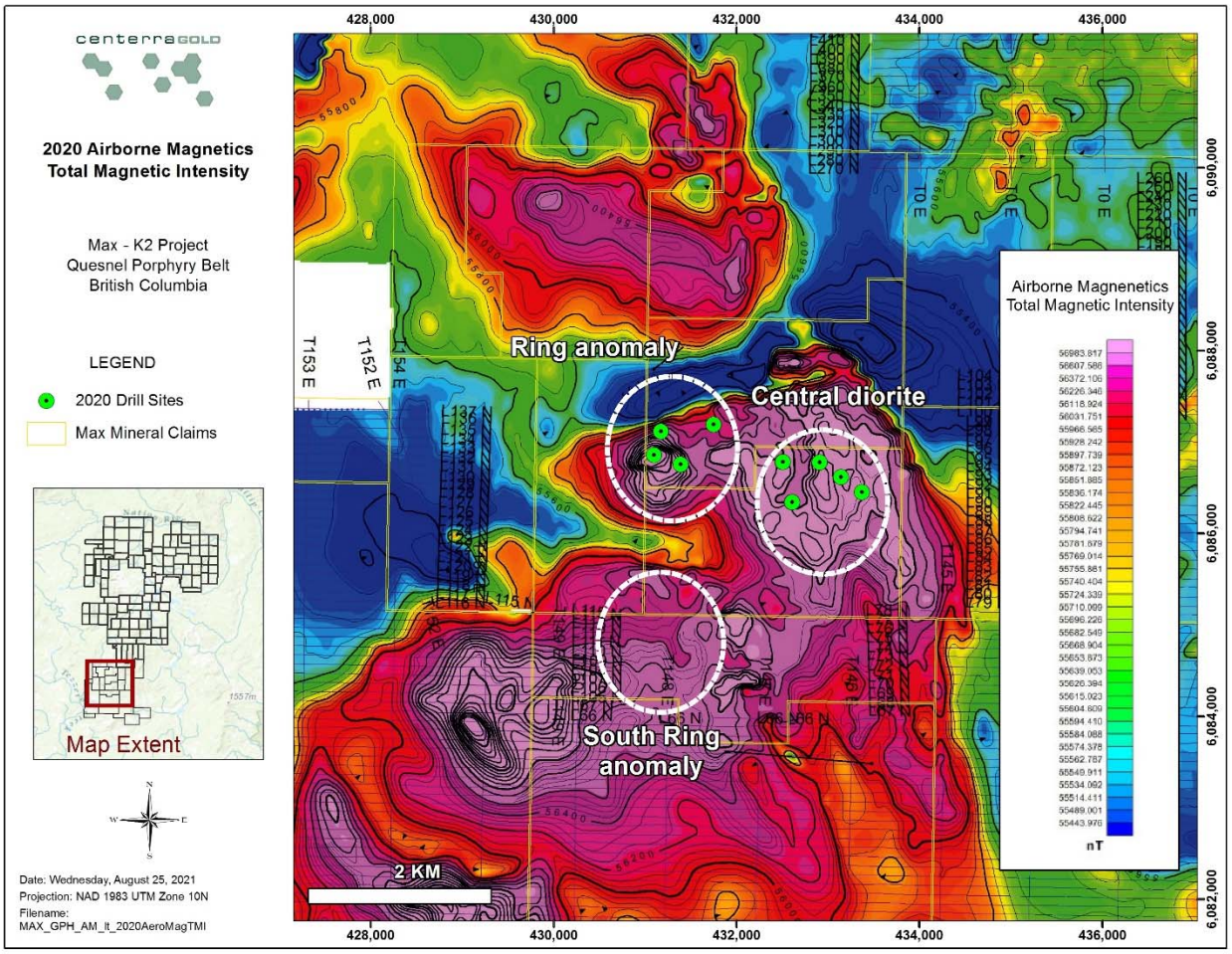

Figure 23: Map of 2020 Airborne Magnetic Total Magnetic Intensity and 2020 Drill holes

11 Discussion and Conclusions

The 2020 drilling program intersected wide-spread, well-developed, peripheral hydrothermal alteration with intervals of up to 15% pyrite mineralization, localized chalcopyrite mineralization, and base metal ± molybdenite bearing quartz veins. Assays returned narrow intercepts of anomalous gold mineralization of 0.1 to 0.7 g/t and copper mineralization of 300 to 3000 ppm in intervals 5-30 m wide. The hydrothermal alteration, veins, and mineralization suggest proximity to an Au-Cu porphyry system.

When comparing Phase 1 drill results in the Central diorite to the east with Phase 2 drill results in the Ring anomaly to the west, the Ring anomaly is richer in both Au and Cu mineralization, with anomalous Au-Cu-Mo zones 100 times wider than previously intersected. The Ring anomaly is interpreted as part of an Au-Cu porphyry system of unknown fertility, either high in the system or marginal to a better mineralized part of a porphyry prospect.

Despite the increased Au-Cu mineralization in the Ring anomaly, in hand sample and in petrography the potassic alteration is better developed in the Central diorite area. Hydrothermal biotite comprising >10% of the rock can extend at the level of a copper ore body outward for as much as a 500± metres from the core of the system, providing a potential search radius at Max and a vector for where the Central Diorite

may be within a porphyry system. The geology and alteration have some features suggestive of an alkalic porphyry system, but visually lack significant copper mineralization and widespread continuous potassic alteration with gradational contacts, common at the nearby Mount Milligan deposit. An alternative interpretation is that the discrete potassic mineralized zones intersected in the Central diorite may represent a calcic subtype Au skarn system, with strong alteration restricted to discrete units such as calcareous volcaniclastic beds.

The interpretation of geophysics was successfully used to predict geology and mineralization for drill targeting. In the Phase 1 drill area, resistivity highs correlate with intervals of propylitic altered diorite in the hanging wall of an interpreted fault, with diorite and narrow monzonite porphyry units in the footwall. The main zone of potassic alteration with pyrite concentration >5% occurs in an intermediate resistivity gradient zone (yellow) directly below the resistivity highs, coincident with a moderate chargeability signature underlying a high chargeability anomaly. This geophysical anomaly was used to successfully predict the zone of alteration and mineralization intersected in MAX20-023, down-dip to the west in MAX20-027 and up-dip to the east in MAX20-029. Well-developed fault zones are associated with a resistivity low signature and weak-to-moderate chargeability ± a magnetic low. This type of geophysical anomaly is associated with quartz-chlorite-sericite-carbonate-pyrite alteration, brecciation, ± local shearing. The alteration corridors variably host early-stage quartz veins, peripheral to late-stage carbonate veins, with splashy chalcopyrite ± sphalerite ± molybdenite and up to 5% pyrite.

Magnetic highs in aeromagnetic surveys tested with drilling were typically associated with unaltered to weakly propylitic altered diorite with magmatic magnetite (Diorite-1). A magnetic destructive signature is recommended for targeting areas of favorable alteration, also supported by mag sus data collected during 2020 drilling, which shows potassic altered diorite phases to have decreased mag sus values relative to Diorite-1. An analogue for Max was suggested as the Didipio alkalic porphyry Cu-Au deposit in the Philippines, which has some geological similarities to the Ring anomaly. The Didipio deposit is hosted by a diorite to monzodiorite intrusive suite with different phases of porphyritic dykes and intrusions. Strongly calc-potassic alteration (actinolite, biotite, orthoclase, magnetite) caused andesite volcanic rocks and pyroxene monzodiorites to metasomatize and appear as dark diorite, which may explain the different diorite subtypes logged in 2020 drill core at Max (Diorite-2 and Diorite-3). In aeromagnetic surveys, the Didipio deposits are located on a major fault defined by linear magnetic lows at the margins of magnetic highs.

12 Recommendations

The thick till cover and glacial history at Max limit the availability of reliable surface geochemistry anomalies and drill targeting depends heavily on the use of geophysical surveys. To improve surface geochemistry targets and program planning, surficial geology mapping and till sample suitability mapping are recommended. The results can be used to determine more appropriate sampling methods and understand glacial history to generate in-situ bedrock anomalies and refined drill targets. A data compilation and re-interpretation of existing historical soil sample datasets to generate surface geochemistry anomalies and drill targets is also recommended, considering factors such as drift thickness as well as glacial transport distance and direction. Sampling of basal till in identified target areas, potentially by Talon drilling, may be another suitable exploration technique for the project.

Ground truthing and prospecting of geophysical anomalies identified in 2019-2020 ground IP and aeromagnetic surveys is also recommended. Suggested targets include deep-seated chargeability highs from the 2019-2020 ground IP surveys and inversion modelling, aeromagnetic features of interest

including magnetic 'donuts', as well as anomalies associated with inferred major fault zones. Follow-up of existing geochemical rock chip and soil anomalies is also suggested, including sample locations returning > 50 ppm molybdenum. Additional prospecting and ground IP surveys are recommended over the K2 Showing.

To advance the exploration model for Max, geochronology of the different intrusive phases including the diorite subtypes and monzonite porphyries, is recommended. Additional petrography of the Ring anomaly is advised to better understand the identified porphyry system and alteration, as well as to help vector towards potential higher-grade porphyry centres. Detailed structural modeling and mapping to enhance understanding of fault zones and fault relationships will also improve the exploration model. Oriented core in future drill programs would help define vein and mineralization trends, fault orientations, as well as contact angles and volcanic bedding dip and dip direction.

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Appendix A

Statement of Costs

Appendix A - Cost Statement

Exploration Work type	Comment	Days			Totals
Personnel (Name)* / Position	**Field Days (list actual days)**	**Days**	**Rate**	**Subtotal***	
Dave Cox / Senior Geologist	May 26 - June 15	21	$700.00	$14,700.00	
Cheyenne Sica / Principal Geologist	June 16-July 5, Sept 20-Oct 14	44	$750.00	$33,000.00	
Bethany Duff / Core Logger	June 8- June 24	17	$500.00	$8,500.00	
John Tejada / Core Logger	June 7- 21, Oct 1 - Oct 19	33	$500.00	$16,500.00	
Morgan Appleton / Geologist	June 15-16	2	$450.00	$900.00	
Sam Wigmore / Geologist	Oct 8, Oct 13	2	$450.00	$900.00	
Michelle Palmes / Senior Geotechnician	June 7- 20, Oct 10 - Oct 18	24	$475.00	$11,400.00	
Darcy Kowalski / Senior Geotechnician	Oct 2-7	6	$475.00	$2,850.00	
Spencer Purnell / Geotechnician	June 7- 23, Oct 8	16	$375.00	$6,000.00	
Frazer Dyson / Geotechnician	June 25-26	2	$375.00	$750.00	
Ricky Sam / Core-cutter	June 16, June 24-29, Oct 14, Oct 18, Oct 20	10	$375.00	$3,750.00	
Charles Nickerson / Core-cutter	June 16, June 24-30, Oct 1-2, Oct 17, 19	12	$375.00	$4,500.00	
Jake Neumann / Core-cutter	June 17-23	7	$375.00	$2,625.00	
Desmond Thomas / Core-cutter	June 17-23	7	$375.00	$2,625.00	
Tyler Luggi / Core-cutter	Oct 14-16	3	$375.00	$1,125.00	
Geoff McMaster / Database and GIS specialist	June 4, Sept 27	2	$700.00	$1,400.00	
				$111,525.00	**$111,525.00**
Office Studies	**List Personnel (note - Office only, do not include field days)**				
Literature search			$0.00	$0.00	
Database compilation			$0.00	$0.00	
Computer modelling	Cheyenne Sica	2.0	$750.00	$1,500.00	
Reprocessing of data			$0.00	$0.00	
General research			$0.00	$0.00	
Report preparation	Cheyenne Sica	8.0	$750.00	$6,000.00	
Other (specify)			$0.00	$0.00	
				$7,500.00	**$7,500.00**
Airborne Exploration Surveys	**Line Kilometres / Enter total invoiced amount**				
Aeromagnetics	Walcott Geophysics, 963 line-km October 13-15 Max Block Only	963.0	$43.07	$41,474.48	
				$41,474.48	**$41,474.48**
Remote Sensing	**Area in Hectares / Enter total invoiced amount or list personnel**				
Aerial photography			$0.00	$0.00	
LANDSAT			$0.00	$0.00	
Other (specify)			$0.00	$0.00	
				$0.00	**$0.00**
Ground Exploration Surveys	**Area in Hectares/List Personnel**				
Geological mapping					
Regional		*note: expenditures here*			
Reconnaissance		*should be captured in Personnel*			
Prospect		*field expenditures above*			
Trenches	Define by length and width			$0.00	**$0.00**
				$0.00	
Ground geophysics	**Line Kilometres / Enter total amount invoiced list personnel**				
Radiometrics	*note: expenditures for your crew in the field*				
Magnetics	*should be captured above in Personnel*				
Gravity	*field expenditures above*				
IP	Peter E. Walcott & Associates Geophysics, 15 line-km (Sept 26 to Oct 7) and 6 line-km (Nov 9-24)	21.0	$6,468.75	$135,843.75	
Resistivity					
Complex resistivity					
Geophysical interpretation					
Other (specify)					
				$135,843.75	**$135,843.75**
Geochemical Surveying	**Number of Samples**	**No.**	**Rate**	**Subtotal**	
Drill (cuttings, core, etc.)	SGS + BV labs including rush assays, total 3265 samples	3265.0	$60.71	$198,233.00	
Petrology	cant find costs for Ted maybe went to MtM		$0.00	$0.00	
Other (specify)			$0.00	$0.00	
				$198,233.00	**$198,233.00**
Drilling	**No. of Holes, Size of Core and Metres**	**No.**	**Rate**	**Subtotal**	
Diamond	5441 m, 11 drill holes, NQ diameter	11	$142.14	$773,379.00	
Other (specify)			$0.00	$0.00	
				$773,379.00	**$773,379.00**
Other Operations	**Clarify**	**No.**	**Rate**	**Subtotal**	

Appendix A - Cost Statement

Exploration Work type	Comment	Days			Totals
Earthworks and Padbuilding	Minconsult - construction of heli pads and drill pads for heli-supported drilling program		$0.00	$275,228.00	
Environmental Survey	EcoFor Consulting - bird survey professionals		$0.00	$2,850.00	
Other (specify)			$0.00	$0.00	
				$278,078.00	**$278,078.00**
Reclamation	**Clarify**	**No.**	**Rate**	**Subtotal**	
After drilling			$0.00	$0.00	
Monitoring			$0.00	$0.00	
Other (specify)			$0.00	$0.00	
				$0.00	
Transportation		**No.**	**Rate**	**Subtotal**	
Truck Rental	2 months @ $1250	2.00	$1,250.00	$2,500.00	
Fuel	Diesel and Gasoline from MtM Mine		$0.00	$13,403.00	
Helicopter (hours) + Fuel	Silverking Helicopters		$0.00	$515,624.00	
Other				$0.00	
				$531,527.00	**$531,527.00**
Accommodation & Food	**Rates per day**				
Camp and Meals (day rate)	656 camp days @ $70 (16 people total - 2 silverking + 5 omineca + 4 mincon + 5 CGS) for 41 days at $ 70 per person per day	656.00	$70.00	$45,920.00	
				$45,920.00	**$45,920.00**
Miscellaneous					
Equipment / supplies	core shack consumables		$0.00	$2,354.00	
Core boxes	Issued by MtM warehouse		$0.00	$18,126.00	
Lumber for pad building	Ouellette Bros. Building Suppl		$0.00	$27,026.00	
Other (Specify)					
				$47,506.00	**$47,506.00**
Equipment Rentals					
Field Gear (Specify)			$0.00	$0.00	
Downhole survey rental	Reflex EZ-TRAC, EZ-GYRO downhole survey rentals		$0.00	$7,485.00	
Other (Specify)					
				$7,485.00	**$7,485.00**
Freight, rock samples					
Pulp and rejects	Twin Anchors Manufacturing Ltd. - Freight		$0.00	$1,149.00	
				$1,149.00	**$1,149.00**
TOTAL Expenditures					**$2,179,620.23**

Appendix B

Statement of Qualifications

Appendix B

Statement of Qualifications

Statement of Author's Qualifications

I, Cheyenne Sica, P.Geo. do hereby certify that:

1. I am currently employed as Exploration Manager, Brownfield – British Columbia by:

   Centerra Gold Services Inc.
   299 Victoria Street, Suite 200
   Prince George, BC V2L 5B8

2. I am a Registered Professional Geologist in good standing with the Association of Professional Geoscientists of Ontario.
   Registration # 3005

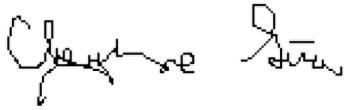
3. I graduated from Queen's University with a Bachelors of Science (Honours), Geological Sciences from Kingston, Ontario in 2010.

4. I graduated from the University of Toronto with a Masters of Science, Geology Earth Sciences from Toronto, Ontario in 2016.

5. I have worked as a Geologist in the industry for a total of 10+ years since my graduation from university.

6. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report and supporting Report Volumes, the omission to disclose which makes the Assessment Report misleading.

Dated 28th day of April, 2021.



Cheyenne Sica, P.Geo.

Statement of Author's Qualifications

I, Bonnie Spence, P.Geo. do hereby certify that:

1. I am currently employed as Superintendent, Exploration:

   Centerra Gold Services Inc.
   299 Victoria Street, Suite 200
   Prince George, BC V2L 5B8

2. I am a Registered Professional Geologist in good standing with Engineers & Geoscientists British Columbia.
   Licence # 44934

3. I graduated from the University of Alberta with a Bachelor of Science Degree with Specialization in Geology (with Distinction) from Edmonton, Alberta in 2009.

4. I have worked as a Geologist in the industry for a total of 12 years since my graduation from university.

5. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report and supporting Report Volumes, the omission to disclose which makes the Assessment Report misleading.

Dated 26th day of August, 2021.

Bonnie Spence, P.Geo.

Statement of Author's Qualifications

I, David Cox, M.Sc. do hereby certify that:

1. I am currently employed as Project Geologist, Kemess – British Columbia by:
   Centerra Gold Services Inc.
   299 Victoria Street, Suite 200
   Prince George, BC V2L 5B8

2. I graduated from University College Dublin, Dublin with a Bachelors of Science (Honours), Geological Sciences in 2008.

3. I graduated from the University of Toronto with a Masters of Science, Geology Earth Sciences from University of British Columbia, British Columbia in 2013.

4. I have worked as a Geologist in the industry for a total of 12 years since my graduation from university.

5. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report and supporting Report Volumes, the omission to disclose which makes the Assessment Report misleading.

Dated 25th day of August, 2021.

David Cox

Statement of Author's Qualifications

I, Geoffrey McMaster, B.Sc. do hereby certify that:

1. I am currently employed as GIS & Database Specialist by:

   Centerra Gold Services Inc.
   299 Victoria Street, Suite 200
   Prince George, BC V2L 5B8

2. I graduated from the University of British Columbia with a Bachelors of Science , Chemistry in 2008.

3. I have worked in the mineral exploration and mining industry since 2007.

4. I am not aware of any material fact or material change with respect to the subject matter of the Assessment Report and supporting Report Volumes, the omission to disclose which makes the Assessment Report misleading.

Dated 26 August, 2021.

G. McMaster, B.Sc.

Appendix C

Geological Drill Logs

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

MOUNTMILLIGAN

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Depth	Lithology: Lith Code	Lithology: Description	Geotechnical: Recovery (%) 0 100	Geotechnical: RQD (%) 0 100	Mineralisation: Pyrite (%) 0 10	Mineralisation: Chalcopyrite (%) 0 5	Alteration Mineral Intensity: Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	Assays: SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	DH Survey: Depth (m)	Azimuth	Dip	Tool
0	OVB	0 to 43m: OVB - ~70% boulders of hbl-px phyric diorite. ~30% clay and soil. minor undifferentiated clasts.																								
32			53.33	18.67																						
34			30.67	0																						
36			35.33	0																						

Legend

Lith Code

OVB — Soil Overburden : Undivided surficial materials

Structure Type

FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

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MOUNTMILLIGAN

centerraGOLD

Lithology

Lith Code	Description
OVB	0 to 43m: OVB - ~70% boulders of hbl-px phyric diorite. ~30% clay and soil. minor undifferentiated clasts.
DIOR	43 to 58.8m: DIOR - white & light-green. mod-str limonite oxidation along fracture surfaces. locally moderately weathered. med-grained porphytic. 50-75% 2-4mm anhedral to subhedral mafics (hbl-px? w/ irregular pheno boundaries). 4-7% 2nd anh-subh magnetite 1-2mm as disseminations and minor repl of mafics. aphanitic groundmass -- locally creamy white colored (wk-mod ab?) with pervasive moderate light-green epidote alt. very weak py mineralization as finely disseminated grains. core is moderately broken.
DIOR	58.8 to 62m: DIOR - faulted interval is compromised mostly of angular rubble w/ minor (<10%) gouge and rock flour. highly broken core subangular to angular fragmetns avg < 4cm. significant core loss. med-dark brown. protolith is white-green med-grained porphyrytic DIOR 50-70% mafics (hb-px?) in aphanitic white groundmass. strongly oxidized on fracture surfaces and highly weathered.
DIOR	62 to 72m: DIOR - mod brk core. white-green to med-green. wk oxidized along fract planes with localized strong oxidation. localized <10cm intervals strongly weathered to soil-clay. med-grained DIOR. porphyrytic. 50-70% anhedral mafic phenos (hbl-px?) in aphanitic white-green groundmass. 5-8% 2nd mt as fine(1-3mm) disseminations and mafic repl. patchy ab(?) gmass alteration. wk-mod pervasive ep alteration. v wk pyrite mineralization as very fine dissem grains and trace stringers assoc w/ epidote. localized andesite (or antf?) raft ~50cm @ 68.15-68.70m
ANDS	72 to 73.47m: ANDS - dark grey. locally ozidized along fract planes. massive to weakly poprhyrytic andesite (<10% 1-2mm anh plag(?) & mafics). patchy moderate chl alteration. patchy wk carb alteration. trace py diss grms. mod brk core <10cm fragments.
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	35.33	0											
	6.67	0											
	23.33	0											
	13.33	0											
	81	4											
	57.33	0											
	87.33	16.33											
	84.33	0	0.2	0	3			3	3		2		
	47.67	0											
	97.67	26											
	95.67	18.33											
	97.33	11.33											
	101.33	29.67	0.1	0	3			1			2		
	100	45.33	0.2	0	3			2	3			2	

Structure Type

FL

FRZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3345851	43	48	0.007	0.2	157.3
3345852	48	50	0.006	0.3	164.4
3345853	50	52	0.006	0.3	137.5
3345854	52	54	0.006	0.4	189.9
3345856	54	56	0.006	0.4	364
3345857	56	57.5	0.0025	0.4	314.7
3345858	57.5	58.8	0.007	0.4	228.3
3345859	58.8	60	0.0025	0.4	343
3345861	60	62	0.0025	0.4	253.1
3345862	62	64	0.0025	0.3	298.5
3345863	64	66	0.0025	0.2	161.3
3345864	66	68	0.006	0.1	69.7
3345865	68	70	0.006	0.2	146.7
3345866	70	72	0.0025	0.1	77.9
3345867	72	73.47	0.0025	0.1	90
3345868	73.47	75	0.0025	0.2	139
3345869	75	77	0.007	0.2	165.2

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- OVB — Soil Overburden : Undivided surficial materials
- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

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MOUNTMILLIGAN

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
80	DIOR	73.47 to 89.3m: DIOR - med-light green. wk lim ox along fract planes. porphyrytic DIOR anh-subh 50-70% 1-3mm hbl-px phenos in aphanitic groundmass. aph gmass. patchy cream-white alt of gmass overprinted by pervasive wk-mod ep alteration. 5-8% 2nd magnetite as diss grns and partial mafic repl. v wk py min diss grns. 2-3% ep vlets <2mm +/- carb	100	45.33												
			102	64.33												
			101	79			3			2	3			2		
85			101.67	17.67	0.2	0										
			101.67	66.67												
90	ANDS	89.3 to 95.84m: ANDS - med-drk gry. tr ox'd along fract planes. massive to locally wk plag-phyric (anh phenos <2mm). 5-10% 2nd mt 1-3mm diss grains. <1% vfg py disseminations assoc w/ ep. wk patchy ab alteration. patchy wk-mod ep alteration and ep as vlets/veins 1-10mm +/- carb.	100	81.33			3			2	2			2		
			101.33	79.33												
95	ANDS	95.84 to 106.27m: ANDS - med gry-grn. hi-brk core. wk ox along select fract planes. protolith is andesitic volcanics or xtal tuff. patchy carb-ep alteration. mod-str magnetic throughout. 2-3% ep vlets <2mm. 1-2% carb stringers <5mm. trace py diss grns. minor rock flour and gouge along fract planes. LC marked by ~6cm gouge	86.67	10.33												FRZ
			93.33	12.67	0.1	0	2				2		2			
			100	16												
105			100	22.67												FL
110	DIOR	106.27 to 116.9m: DIOR - grey and light-green. med-grained porphyrytic diorite. 50-60% anh-subh 2-4mm hbl-px phenocrysts in aphanitic grey to light-green ep +/- patchy ab altered groundmass. str mag - 2nd mt as 1-2mm diss grains and partial repl of mafics. 2-3% carb-ep vlets <5mm. wk py min as vfg disseminations	99.67	72.33	0.3	0	3				3			2		
			100.33	100.33			3			3	3		2	2		

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3345869	75	77	0.007	0.2	165.2
3345871	77	79	0.005	0.1	122.5
3345872	79	81	0.0025	0.4	348.2
3345873	81	83	0.0025	0.1	102.5
3345874	83	85	0.006	0.2	182.6
3345875	85	87	0.0025	0.2	160.6
3345876	87	89.3	0.0025	0.3	259.2
3345877	89.3	91.5	0.0025	0.05	63.4
3345878	91.5	94	0.0025	0.1	70.6
3345879	94	95.84	0.0025	0.05	35.4
3345881	95.84	97	0.025	0.05	44
3345882	97	99	0.0025	0.05	14.2
3345883	99	101	0.007	0.05	30.8
3345884	101	103	0.0025	0.05	28.9
3345885	103	105	0.0025	0.1	64
3345886	105	106.27	0.0025	0.3	151.6
3345887	106.27	108	0.0025	0.4	247.4
3345888	108	110	0.014	0.5	378
3345889	110	112	0.007	0.4	376.9
3345891	112	114	0.0025	0.6	550.9

Depth (m)	Azimuth	Dip	Tool
87	89.1	-64.8	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FRZ — Fracture Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

MOUNTMILLIGAN

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
115	DIOR	106.27 to 116.9m: DIOR - grey and light-green. med-grained porphyrytic diorite. 50-60% anh-subh 2-4mm hbl-px phenocrysts in aphanitic grey to light-green ep +/- patchy ab altered groundmass. str mag - 2nd mt as 1-2mm diss grains and partial repl of mafics. 2-3% carb-ep vlets <5mm. wk py min as vfg disseminations	100.33	100.33	0.3	0	3			3	3		2	2		
			100	100												
	ANDS	116.9 to 118.3m: ANDS - grey. fine-grained andesite? 10-20% ~1-2mm subh mafics mostly hbl. str magnetic ~5% 0.5-1mm grains of magnetite as diss grains. weak patchy epidote alt of gmass. very weak py min as vfg disseminations and rare discontinuous stringers.	99.33	92.33	0.2	0	3				3		2	2		
120	DIOR	118.3 to 135.23m: DIOR - green w/ patchy white-green. med-grained diorite. 50-60% 2-4mm anh-subh hbl-px phenos in aphanitic groundmass. wk mod pervasive ep alteration and mod-str patchy albite alt of gmass. generally weak pyrite mineralization as vfg disseminations. 2-3% carb-chl & ep-carb-chl vlets and veins 1-6mm.	100.33	83	0.2	0	3			3	3		2	3		
			100	94												
125			100.67	89.67												
130			100	87												
			100	85.33												
135	ANDS	135.23 to 141.83m: ANDS - dark green-grey. interval dominantly fine-grained andesitic volcanics with <1m intermittent med-grained diorite (50-60% 2-4mm anh hbl-px in aph gmass) intercepts @ 138.15-138.85m & 139.17-139.25m. patchy ep alt of fg andesite and perv ep-carb +/- ab alteration of diorite dikelets. noted 2-3cm qz veins +/- carb-ep halos @ 138.9m & with localized increase in py mineralization @ 135.75m &138.9m. 1-3% carb +/- ep veins upto 3cm thick.	100	55.33	0.5	0	3			1	3			2		
			99.67	93.33			3			3	3			2		
140							3			1	3			2		
			101	94												
	DIOR	141.83 to 145.75m: DIOR - light green. med-grained porph diorite 50-60% 2-4mm anh hbl-px phenos partially repl by 2nd mg. aphanitic groundmass. pervasive mod epidote alt of gmass. patchy mod ab alt assoc w/ ep. 5-8% ~1mm magnetite grains as disseminations and maficrepl. very weak py min as diss fine grains.			0.2	0	3			3	3			2		
145			100	84.33												
	ANDS	145.75 to 149.4m: ANDS - dark grey w/ patchy light-green. fine-grained andesite w/ localized <10cm intervals of either med-grained hbl-phyric diorite or xtal tuff. wk-mod ep-carb alteration as patches. <1% patchy albite alteration. weak sulfide min as vfg py disseminations. 5-8% ~1mm mg disseminations.	99.67	97.33	0.2	0	3			1	3			2		
150	DIOR	149.4 to 153.68m: DIOR - green w/ patchy green-white.	100.67	82.33	0.2	0	3			3	3		2	2		

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3345891	112	114	0.0025	0.6	550.9
3345892	114	115.5	0.0025	0.3	340.7
3345893	115.5	116.9	0.007	0.5	445.4
3345894	116.9	118.3	0.011	1.1	801.4
3345896	118.3	120	0.0025	0.3	197.2
3345897	120	122	0.006	0.5	445.5
3345898	122	124	0.007	0.3	223.3
3345899	124	126	0.0025	0.3	208.7
3345901	126	128	0.006	0.3	221.8
3345902	128	130	0.007	0.5	315.4
3345903	130	132	0.009	0.5	369.3
3345904	132	134	0.006	0.3	203.8
3345905	134	135.23	0.005	0.6	450.5
3345906	135.23	137	0.007	0.5	377.7
3345907	137	138.15	0.012	0.7	460.9
3345908	138.15	139.25	0.007	0.4	234.8
3345909	139.25	140.75	0.011	0.2	84.2
3345911	140.75	141.83	0.022	0.8	181.4
3345912	141.83	144	0.007	0.8	400.5
3345913	144	145.75	0.0025	0.4	204.6
3345914	145.75	148	0.0025	0.2	101.5
3345915	148	149.4	0.0025	0.3	179.9
3345916	149.4	151	0.0025	0.4	289.4

Depth (m)	Azimuth	Dip	Tool
117	82.1	-65.3	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- HYBX — Hydrothermal Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

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MOUNTMILLIGAN

centerraGOLD

Lithology			Geotechnical		Mineralisation		Alteration Mineral Intensity									
Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	149.4 to 153.68m: DIOR - green w/ patchy green-white. poprhyrytic diorite. 50-60% 2-4mm anh mafics (hbl-px?) in aphanitic light green to green-white groundmass. pervasive mod ep alteration. patchy mod ab alt of gmass. 2nd mt 5-10% diss grains upto 2mm and mafic repl. patchy chl alt. v weak to trace py as diss grns. ~1% carb-qz+/-ep vlets and veins.	100.67	82.33	0.2	0	3			3	3		2	2		
	ANDS	153.68 to 159.2m: ANDS - dark green w/ patchy light-green. highly fractured with carb-infill. fine-grained andesitic volcanics. mod-str magnetic throughout. patchy mod ep alteration. ~5% carb stringers. weak <1%py min as vfg disseminations.	100.33 / 100.67	78.33 / 80.33	0.1	0	3				2			3		
	DIOR	159.2 to 161m: DIOR - (DIOR-3?)dyke? drk-grey wk porphyrytic intrusive of intermediate comp. ~5% anh plag(?) phenos repl by calcite. strong perv carb alt. mod magnetic. weak py min as <0.5% vfg disseminations. ~2% carb-stringers +/- patches of epidote.	100	28.33	0.3	0	3				1			4		
	ANDS	161 to 166.3m: ANDS - med-grey. fine-grained massive to locally med-grained porph andesitic volcanics - porph intervals have 20-30% 1-3mm ep-carb replaced phenos (hbl/plag?) in aphanitic groundmass. very weak py mineralization as vfg disseminations. interval has 5-10% carb veinlets & <1% ep-carb vlets.	100.67 / 99.33	65.33 / 23.33	0.1	0	3				3			2		
	ANDS	166.3 to 173.2m: ANDS - light-grey. fine-med grained andesitic volcanics(?). texture moderately obscured by str carb-alt. locally there are phenos 2-3mm observable - repl by carb. generally mod-str magnetic, with less magnetism where carb-veining is intense (~168.5 - 170.6m). interval average~10% carb veins and veinlets. wk py mineralization <1% vfg disseminations.	101 / 100.67	37.67 / 60.33	0.5	0	2				2		2	3	2	HYBX
	DIOR	173.2 to 174.5m: DIOR - (DIOR-3?) dyke? drk-grey wk porphyrytic intrusive of intermediate comp. ~5% anh plag(?) phenos repl by calcite. strong perv carb alt. wkly magnetic. weak py min as <0.5% vfg disseminations. ~2% carb-stringers +/- patches of epidote.			0.2	0					2			4		
	DIOR	174.5 to 182.5m: DIOR - med-light green. med-grained diorite. 50-65% 2-4mm anh mafic phenos (hbl-px?) in aphanitic groundmass partially repl by magnetite. mod-str patchy epidote +/- carb alteration. wk pyrite min as finely disseminated grains. 1-2% carb-chl vlets and veins +/- epidote. massive andesite raft @ 176.40-176.60m	99.33 / 101 / 100	39.67 / 38.67 / 56	0.1	0	2			2	3		2	2	1	
	ANDS	182.5 to 184.06m: ANDS - dark-green. fine-grained andesitic volcanics. interval str fractured w/ carb+/- infill. texture mod obscured. 5-10% carb+/-ep str and vlets. localized slight increase in py mineralization.			0.5	0	3				3			3		
	DIOR	184.06 to 186.15m: DIOR - light to dark green med-grained porph diorite. 50-60% 2-4mm anh mafics (hbl-px?) in aphanitic groundmass. mod pervasive ep+/-ab alteration of gmass, transitioning to strong carb alt @ 185.56m approaching underlying fault. str magnetic throughout. wk py mineralization as vfg disseminations.	100.67	70.33	0.3	0	3			1	3			2		
	DIOR	186.15 to 188.5m: DIOR - gouge along UC ~25CA. shear foliated dior(?) highly fractured but coherent. comminuted rock cemented by gouge and rock flour. texture weakly preserved:	100	16							2		3	4		FL

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3345916	149.4	151	0.0025	0.4	289.4				
3345917	151	152.25	0.0025	0.7	519.4				
3345918	152.25	153.68	0.01	0.8	432.8				
3345919	153.68	155	0.009	0.7	379				
3345921	155	157	0.014	0.6	287.5				
3345922	157	159.2	0.015	0.3	100.1				
3345923	159.2	161	0.006	0.3	140.3				
3345924	161	163	0.01	0.3	120.9				
3345925	163	165	0.005	0.4	125.1				
3345926	165	166.3	0.014	0.4	121.9				
3345927	166.3	168	0.039	0.4	116.9				
3345928	168	170	0.033	0.4	75.2				
3345929	170	172	0.021	0.3	56.9				
3345931	172	173.2	0.0025	0.1	47.2				
3345932	173.2	174.5	0.015	0.3	82.4				
3345933	174.5	176	0.008	0.3	110.4				
3345934	176	178	0.01	0.3	105	177	89.5	-65.5	Reflex EZ-Trac
3345936	178	179.93	0.006	0.1	44.6				
3345937	179.93	182	0.009	0.1	64.1				
3345938	182	184.06	0.037	0.4	98.8				
3345939	184.06	185.56	0.012	0.4	255.6				
3345941	185.56	186.15	0.007	0.3	158.8				
3345942	186.15	187.25	0.027	0.5	201.7				
3345943	187.25	188.5	0.048	2.5	308.6				

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- HYBX — Hydrothermal Breccia
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

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Lithology

Lith Code	Description
DIOR	186.15 to 188.5m: DIOR - gouge along UC ~25CA. shear foliated dior(?) highly fractured but coherent. comminuted rock cemented by gouge and rock flour. texture weakly preserved: hbl-px phenos locally observed (dior/apxt ?). mod-str magnetic w/ minor non-mag intervals.
DIOR	188.5 to 197m: DIOR - drk-grey. med-grained porph diorite. ~50% anh-subh hbl-px+/-plag phenos 2-4mm replaced by carb. interval is strongly carb altered. generally str magnetic with minor non-magnetic intervals. generally wk py mineralization <1% with localized increase @ 192-195m ~5-8% as diss grains and blebs. 5-10% carb stringers and vlets. <1% ep-carb strgrs.
DIOR	197 to 216.35m: DIOR - med-light green. med-grained diorite. mod-str magnetic throughout. 50-60% 2-4mm anh mafic phenos repl by 2nd magnetite. pervasive to locally patchy mod-str epidote +/- albite alteration of groundmass. weak py min as vfg disseminations. <1% carb vlets. 1-2% ep-carb strgrs-vlets. dyke(?) @ 206.55-207.4m: wk plag-phyric diorite. 1-3mm plag phenos repl by carb in aph gmass. wk-mod magnetic throughout.
APXT	216.35 to 219.75m: APXT - grey-green. med-crs grained andesitic xtal tuff. 25-35% 2-4mm fragmented phenos repl by carb. magnetic. 2nd magnetite as diss grains. trace py min as diss grains. ~1% carb vlets +/- ep
ANDS	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
186.15–188.5	100	16	0.3	0							3	4	
188.5–190	100	79.33	2	0	3							4	
190–193.5	100	56	6	0					3		2	4	
193.5–197	100	96.67	0.2	0									
197–200	100	69.33											
200–203.5	100.67	47			3			2	3		1	2	
203.5–206.5	100	63.33											
206.5–208	101.67	39	0.2	0					2			3	
208–211.5	100	97.67			3				4			2	
211.5–216.35	101	84.33											
216.35–218.5	100	27.33	0.1	0	3				2			3	
218.5–220.5	100	50											
220.5–225	100	95.67	0.2	0	3			3	3			3	
225–226	100	75											

Structure Type: FL (3345943); FRZ (3345952)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3345943	187.25	188.5	0.048	2.5	308.6
3345944	188.5	190	0.018	0.5	118.9
3345945	190	191.9	0.01	0.4	88.6
3345946	191.9	194	0.019	0.4	44.1
3345947	194	195.45	0.033	0.7	45.7
3345948	195.45	197	0.027	0.2	29.7
3345949	197	198.5	0.034	0.2	34.8
3345951	198.5	200	0.011	0.05	26.8
3345952	200	202	0.0025	0.05	46.9
3345953	202	204	0.006	0.05	17.6
3345954	204	205.25	0.009	0.05	11.6
3345955	205.25	206.55	0.0025	0.05	17
3345956	206.55	207.4	0.01	0.1	103.7
3345957	207.4	209	0.01	0.2	151.9
3345958	209	211	0.007	0.05	68.1
3345959	211	213	0.0025	0.05	30.8
3345961	213	215	0.014	0.2	74.7
3345962	215	216.35	0.007	0.05	19.3
3345963	216.35	218	0.01	0.2	132
3345964	218	219.75	0.006	0.1	99.6
3345965	219.75	222	0.0025	0.05	20.6
3345966	222	224	0.0025	0.05	14.5
3345967	224	226	0.005	0.1	18

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

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Lithology: Lith Code	Lithology: Description	Geotechnical: Recovery (%)	Geotechnical: RQD (%)	Mineralisation: Pyrite (%)	Mineralisation: Chalcopyrite (%)	Alteration Mineral Intensity: Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
ANDS	219.75 to 241.95m: ANDS - light grey-green. fine-grained andesitic volcanics. patchy ep+/-ab alteration as 'splotches' of pistachio green +/- bone white. 2nd magnetite throughout as ~1mm subh grains. generally wk py mineralization w/ localized intervals <30cm of elevated py min upto 10%.cross-cut by ep-ab altered med-grained dior dyke @ 235.15-235.55m	100	75	0.2	0	3			3	3			3		
		100	70.33												
		100	94.33												
		100	98												
		100	90.67	2	0										
		100	31.67												
APXT	241.95 to 244.8m: APXT - grey. 25-35% 2-4mm hbl-plag phenos replaced by carb in vfg tuff matrix. mod-str carb alteration throughout. trace py mineralization.	100.67	45	0.2	0	3				2			4		
ANDS	244.8 to 247.87m: ANDS - grey-green. fine-grained andesitic volcanics. mod-str magnetic: ~5% 2nd magnetite throughout as ~1mm subh grains. strong pervasive carb alt and wk patchy ep associated with carb veins. 5-10% carb stkwk vlets.	101	75.33												HYBX
DIOR	247.87 to 264.6m: DIOR - **DIOR-1 & DIOR-2?** ?light green. med-grained diorite 50-60% anh mafics partially repl by 2nd ~1mm magnetite grains. aphanitic groundmass pervasively altered by epidote. very weak py min as vfg disseminations. 2-4% ep-carb vlets. (DIOR-2?) @ 260.7-264??? slightly finer-grained variety? however it looks as if the diorite gradationally decreases in grain size so it could be a result of cooling.	100	73.33												
		100	100												
		100	96.33	0.2	0	3				4			2		
		100.67	88.67												
		100.33	87.67												

Assays: SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3345967	224	226	0.005	0.1	18
3345968	226	228	0.0025	0.05	9.5
3345969	228	230	0.005	0.05	23.4
3345971	230	231.5	0.011	0.2	39.8
3345972	231.5	233	0.0025	0.05	9.3
3345973	233	235	0.023	0.2	16
3345974	235	237	0.007	0.05	15.4
3345976	237	239	0.01	0.1	26.1
3345977	239	240.5	0.008	0.05	7.6
3345978	240.5	241.95	0.032	0.2	37.4
3345979	241.95	243.5	0.017	0.4	137.5
3345981	243.5	244.8	0.005	0.2	120.2
3345982	244.8	246	0.01	0.2	53.6
3345983	246	247.87	0.017	0.2	33.8
3345984	247.87	250	0.0025	0.05	38.9
3345985	250	252	0.009	0.05	19.9
3345986	252	254	0.006	0.1	27.2
3345987	254	256	0.01	0.1	21
3345988	256	258	0.007	0.05	13.1
3345989	258	260	0.0025	0.05	14
3345991	260	262	0.0025	0.1	79.5
3345992	262	263.3	0.006	0.2	140.7
3345993	263.3	264.6	0.007	0.1	108.5

DH Survey: Depth (m), Azimuth, Dip, Tool

Legend

Lith Code

- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- DIOR — Diorite

Structure Type

- HYBX — Hydrothermal Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

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Lithology

Lith Code	Description
DIOR	247.87 to 264.6m: DIOR - **DIOR-1 & DIOR-2?** ?light green. med-grained diorite 50-60% anh mafics partially repl by 2nd ~1mm magnetite grains. aphanitic groundmass pervasively altered by epidote. very weak py min as vfg disseminations. 2-4% ep-carb vlets. (DIOR-2?) @ 260.7-264??? slightly finer-grained variety? however it looks as if the diorite gradationally decreases in grain size so it could be a result of cooling.
ANDS	264.6 to 272.75m: ANDS - dark & light green. andesitic volcanics. str magnetic ~5-10% 1-3mm magnetite disseminated and assoc w/ ep-carb vlets/vns. patchy epiodte +/- albite alteration. <0.5% py as fine-grained disseminations and fracture fill. ~1% ep-carb vlts. localized increase in py mineralization to ~5% 270-272m as crude bands along carb-chl+/-ep veins ~25 degrees CA.
DIOR	272.75 to 275.35m: DIOR - (DIOR-2?) grey-green. slightly finer-grained variety. less pheno crowded vs ep-altered med/crs-grained variety intersected thus far. 30-45% 2-3mm subh mafics in aphanitic groundmass partially repl by magnetite-chl & possibly biotote. mod magnetic. very weak py min as vfg disseminations.
ANDS	275.35 to 289.33m: ANDS - grey and patchy green-white. fine to med-grained andesitic volcanics w/ mod pervasive carb overprint. patchy mod ep alteration associated w/ carb. very weak pyrite mineralization as vfg disseminations. mod magnetic throughout.
DIOR	289.33 to 295.54m: DIOR - (DIOR-2?) kpot alt diorite?. green. med-grained diorite. 20-40% 2-4mm anh-subh mafics (hbl mostly?) in aphanitic groundmass. phenos reply by mg and shreddy bt. mod magnetic throughout. wk pyrite mineralization as fine disseminations.
DIOR	295.54 to 303m: DIOR - (DIOR-2?). FAULTED. strongly carb altered. med-light grey. med-grained plag(?) phyric diorite. 20-30% anh-subh fsp(?) phenos replaced by carb in aphanitic carb-altered groundmass. highly broken and intermittently gougey @ 297.25-298.8m. mod magnetic throughout.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0–100	0–100	0–10	0–5										
	100.33	87.67	0.2	0	3				4			2		
	100	85.67												
	100	83.67	0.3	0	3			3	3			2		
	99.33	60.33	5	0				1	2		3	3		
	99.33	35.33	0.2	0	2				2		3			
	100	53	3	0	3			3	4		2	3		
	100.33	85												SZ
	100.67	97.67												
	100	100	0.2	0	3				3		3	3		
	91.67	70.67												
	107	57.67	0.1	0	3		2				2	2		
	100	43.33												
	93.33	44.67	0.2	0					2		3	4		FL
	100	72.67												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3345993	263.3	264.6	0.007	0.1	108.5
3345994	264.6	266	0.012	0.2	43.8
3345995	266	268	0.0025	0.05	21.3
3345996	268	270	0.005	0.05	24.1
3345997	270	271.26	0.129	0.8	52.2
3345998	271.26	272.75	0.031	0.2	30.5
3345999	272.75	274	0.006	0.2	119.4
3346001	274	275.35	0.0025	0.2	106
3346002	275.35	277	0.013	0.2	69.1
3346003	277	279	0.054	0.4	25.2
3346004	279	280.5	0.121	0.4	34.9
3346006	280.5	282	0.0025	0.05	15.9
3346007	282	284	0.008	0.1	66.6
3346008	284	286	0.0025	0.3	153.2
3346009	286	288	0.0025	0.2	59.5
3346011	288	289.33	0.0025	0.1	30.2
3346012	289.33	291	0.007	0.2	135.6
3346013	291	293	0.0025	0.2	139.8
3346014	293	294.5	0.0025	0.1	129.6
3346016	294.5	295.54	0.0025	0.1	104.2
3346017	295.54	297	0.0025	0.05	61.4
3346018	297	298.35	0.0025	0.1	126.5
3346019	298.35	300	0.007	0.1	128.6
3346021	300	301.5	0.007	0.1	126.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
270	86.1	-65.1	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- SZ — Shear Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

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Lithology			Geotechnical		Mineralisation		Alteration Mineral Intensity									
Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	295.54 to 303m: DIOR - (DIOR-2?). FAULTED. strongly carb altered. med-light grey. med-grained plag(?) phyric diorite. 20-30% anh-subh fsp(?) phenos replaced by carb in aphanitic carb-altered groundmass. highly broken and intermittently gougey @ 297.25-298.8m. mod magnetic throughout.	100	72.67	0.2	0					2		3	4		
	ANDS		100	96.67												
305		303 to 312m: ANDS - lgiht-grey w/ patchy light-green. fine-grained andesitic volcanics. mod-str magnetic throughout. mod ep-carb-chl patchy alteration. groundmass weakly silica altered. interval ~5% carb stringers and vlets +/- chl.	100	100	0.2	0					3		2	3	3	
310			99.33	85.67												
	DIOR	312 to 313.65m: DIOR - DIOR-1. white-green. pheno-crowded med-grained diorite. 50-60% anh mafic phenos 2-4mm in aphanitic groundmass. wk-mod magnetic -- mag as repl of mafics. mod-str pervasvie ep alt of groundmass. wk pyrite min as diss grains. strong localized silica alt along UC.	101.67	93.33	0.2	0	3				3			3	2	
315	ANDS		99.33	99.33												
			100	100												
320		313.65 to 329.55m: ANDS - dark grey-green with patchy green-white. fine-med grained andesite volcanics. strongly magnetic 5-10% ~1mm mag grains disseminated throughout. patchy mod ep +/- ab alteration. wk py 1-2% vfg disseminations. ~4% carb stringers. ~1% ep-carb vlets/strgrs.	100	100	0.5	0	3			2	3		2	3		
325			100.67	93.67												
			100	100												
330	DIOR	329.55 to 337m: DIOR - DIOR-1. light green & grey. pheno-crowded med-grained diorite. 50-60% mafic phenos 2-4mm repl by magnetite in aphanitic groundmass. 5-10% magnetite. gmass is mod-strong perv ep altered. <5% patchy ab alt. slight increase in py ~2-3% as vfg diss grains and clots < 3mm.	100	47.33	1	0	3			3	4		2	2		
335			100.67	48.67												
	DIOR		99.33	49.33	0.2	0	2		3			1		2		

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346021	300	301.5	0.007	0.1	126.6				
3346022	301.5	303	0.006	0.1	126.1				
3346023	303	305	0.0025	0.05	45.1				
3346024	305	307	0.0025	0.05	15.4				
3346025	307	309	0.024	0.05	16.1				
3346026	309	310.5	0.012	0.4	192				
3346027	310.5	312	0.006	0.05	35.6				
3346028	312	313.65	0.016	0.4	179				
3346029	313.65	315	0.007	0.05	17.7				
3346031	315	317	0.005	0.05	37.6				
3346032	317	319	0.006	0.05	23.8				
3346033	319	321	0.005	0.05	22.2				
3346034	321	323	0.027	0.1	39.5				
3346035	323	325	0.014	0.3	68.2				
3346036	325	327.25	0.009	0.2	34.5				
3346037	327.25	329.55	0.013	0.3	101.4				
3346038	329.55	331	0.0025	0.2	155.6				
3346039	331	333	0.009	0.2	142.5				
3346041	333	335	0.014	0.3	251				
3346042	335	337	0.012	0.2	180.9				
3346043	337	339	0.008	0.2	108.5				

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

MOUNTMILLIGAN

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity									
Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	337 to 349.72m: DIOR - DIOR-2. med-grained diorite. 20-30% mafic phenos 2-4mm replaced by black-brown biotite (fe>mg?). fine magnetite grains disseminated throughout. scattered ser-altered clots <5mm throughout -- looks like qz-eyes but soft. no notable sulfide mineralization -- trace py as diss grns. ~1% carb strgrs.	99.33	49.33	0.2	0	2		3			1		2		
		100.67	81												
		100	65.33												
		100	67.33												
		100	80.67												
DIOR	349.72 to 378m: DIOR - DIOR-1. white-green. med-grained pheno-crowded diorite. ~50% 2-4mm anh mafic phenos (hbl-px?) in aphanitic groundmass. mod alb-ep alteration of groundmass. str magnetic throughout -- mag as fine-grained repl of mafics. very weak sulfide min -- py disseminations. ~2-3% ep-carb vlets/vns. ~1-2% carb strgrs/vlets.	100	88	0.2	0	3			3	3		2	2		
		100	92.67												
		100	100												
		100	83												
		100	57												
		100.33	66.67												DYKE
		100	89.33												
		99.33	90.33												
		101.33	96.67												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346043	337	339	0.008	0.2	108.5	360	100.2	-65.8	Reflex EZ-Trac
3346044	339	341	0.012	0.2	124.6				
3346045	341	343	0.007	0.1	127.5				
3346046	343	345	0.006	0.1	119.9				
3346047	345	347	0.008	0.2	129.5				
3346048	347	348.35	0.011	0.2	148.4				
3346049	348.35	349.72	0.008	0.2	149.6				
3346051	349.72	352	0.008	0.2	147.6				
3346052	352	354	0.007	0.2	139				
3346053	354	356	0.006	0.3	196.6				
3346054	356	358	0.012	0.3	180.8				
3346056	358	360	0.005	0.2	153				
3346057	360	362	0.006	0.2	190.5				
3346058	362	364	0.007	0.2	141.4				
3346059	364	366	0.009	0.3	212.3				
3346061	366	368	0.03	0.5	206.4				
3346062	368	370	0.009	0.4	259.5				
3346063	370	372	0.006	0.2	186.9				
3346064	372	374	0.006	0.2	212.4				
3346065	374	376	0.008	0.2	208.9				
3346066	376	378	0.01	0.2	147.4				

Legend

Lith Code

DIOR Diorite

Structure Type

DYKE Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	DIOR	349.72 to 378m: DIOR - DIOR-1. white-green. med-grained pheno-crowded diorite. ~50% 2-4mm anh mafic phenos (hbl-px?) in aphanitic groundmass. mod alb-ep alteration of groundmass. str magnetic throughout -- mag as fine-grained repl of mafics. very weak sulfide min -- py disseminations. ~2-3% ep-carb vlets/vns. ~1-2% carb strgrs/vlets.	101.33	96.67	0.2	0	3			3	3		2	2		
	DIOR	378 to 380.78m: DIOR - DIOR-2. med-grained diorite. 20-30% mafic phenos 2-4mm replaced by black-brown biotite (fe>mg?). fine magnetite grains disseminated throughout. no notable sulfide mineralization -- trace py as diss grns. <1% carb +/- ep strgrs.	100	62	0.1	0	2		3		2					
380																
	DIOR	380.78 to 395.8m: DIOR - DIOR-1. green-white. med-grained porph-crowded diorite. 50-60% mafic phenos (hbl-px) 2-4mm repl by mag. wk-mod perv ep-alb alteration of aphanitic groundmass. very weak pyrite min as vfg disseminations. ~1% crudely banded carb-ep-py stringers/vlets. ~0.5% carb vlets.	100	88.33	0.5	0	3			3	3			2		
385			101.33	100												
			98.67	98.67												
390			101.33	100.33												
			99.33	87.67												
395																
	DIOR	395.8 to 417m: DIOR - DIOR-1. green-white. Med-grained diorite. Pheno-crowded: +50% 2-4mm anhedral mafic phenos (hbl-px?) in aphanitic groundmass. Phenos partially repl by magnetite & black-brown biotite. Groundmass pervasively ep-alb altered. Qz-veins noted: 0.1-0.5% widely scattered 1-3cm undulated pinkish qz-veins crudely banded with carb-chlorite with increased pyrite mineralization as disseminations along halos. interval generally 1-3% pyrite mostly as weak disseminations & localized stringers and halos assoc w/ qz veining. trace cpy as specks along qz-veining. ~1% ep-carb strgrs. ~1% carb strgrs	100	97.67	3	0.1	3		2	3	3		2			
400			100	100												
			103.33	103.33												
405			98.67	85.33												
			99.33	91												
410																
			99.33	98.67												
			101.33	96.33												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346066	376	378	0.01	0.2	147.4				
3346067	378	379.5	0.007	0.2	139.4				
3346068	379.5	380.78	0.0025	0.1	93.2				
3346069	380.78	383	0.006	0.2	143.2				
3346071	383	385	0.016	0.3	205				
3346072	385	387	0.006	0.2	171.6				
3346073	387	389	0.005	0.2	181.9				
3346074	389	391	0.006	0.2	160.1				
3346075	391	393	0.006	0.3	244.3				
3346076	393	394.4	0.01	0.2	191.8				
3346077	394.4	395.8	0.017	0.2	181.4				
3346078	395.8	397	0.02	0.3	164.4				
3346079	397	399	0.009	0.2	164.5				
DYKE 3346081	399	400	0.008	0.1	102.8				
3346082	400	402	0.007	0.2	148.5				
3346083	402	404	0.005	0.2	167.6				
3346084	404	406	0.008	0.2	181.4				
3346085	406	408.5	0.005	0.2	191.1				
3346086	408.5	409.5	0.009	0.3	190				
3346087	409.5	411.5	0.008	0.2	208.3				
3346088	411.5	413	0.02	0.3	211.8				
3346089	413	414	0.012	0.2	222.7				
3346091	414	415	0.007	0.2	171.1				

Legend

Lith Code

DIOR Diorite

Structure Type

DYKE Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-023	Max	450	04-Jun-2020	08-Jun-2020	432910.511	6086774.119	1265.034	89.1	-64.8	NQ	John Tejada	

Purpose

Targeting central diorite (Porphyry Target B) - RC-19-19 (926 ppm Cu, 1.43 g/t Au). Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 400 m. Chargeability high from 200 to 300m shouldered by moderate to low chargeability anomalies; Geophysics Line 6800N

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Lithology			Geotechnical		Mineralisation		Alteration Mineral Intensity									
Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
415	DIOR	395.8 to 417m: DIOR - DIOR-1. green-white. Med-grained diorite. Pheno-crowded: +50% 2-4mm anhedral mafic phenos (hbl-px?) in aphanitic groundmass. Phenos partially repl by magnetite & black-brown biotite. Groundmass pervasively ep-alb altered. Qz-veins noted: 0.1-0.5% widely scattered 1-3cm undulated pinkish qz-veins crudely banded with carb-chlorite with increased pyrite mineralization as disseminations along halos. interval generally 1-3% pyrite mostly as weak disseminations & localized stringers and halos assoc w/ qz veining. trace cpy as specks along qz-veining. ~1% ep-carb strgrs. ~1% carb strgrs	101.33	96.33	3	0.1	3		2	3	3		2			
	HYBX	417 to 425.45m: HYBX - dark to light grey-green. protolith DIOR-1 (med-grained pheno-crowded diorite). interval mod-str qz-carb veined. locally crackle to mosaic brecciated. matrix supported where brecciated --angular DIOR-1 clasts cemented by carb-chl-qz-py. patches of relict bt-mag-ep-ab alteration overprinted by strong ser-qz-carb-chl-py alteration. significantly higher py mineralization ~8% fine to medium grained dissemintaions.	99.33	85.67	7	0.1	2		2	2	3	3		3	3	
420			101.33	86.67												
425			100	70.33												
	DIOR	425.45 to 429.95m: DIOR - DIOR-2. dark green-grey. med-grained porph diorite. 30-40% 2-4mm subh phenos repl by bt-mg. mod silica overprint throughout. aphanitic groundmass. ~1% carb-qz-py veinlets.	100	75.33	5	0	2		2		2		3	2	3	
430	DIOR	429.95 to 437.94m: DIOR - DIOR-1. drk&light green w/ patches of light-grey (sil-alt). med-grained diorite. +50% 2-4mm anh phenos (mafics) repl by 2nd mt & trace bt. groundmass perv ab-ep altered. 2-3% disseminated pyrite. localized qz-veining with qz +/- ser-chl(?) halos and interstitial wispy cpy within vein.	100.67	84.33	2	0.2	3		2	3	3		2		3	
			100	85												
435			101.33	88.67												
440	DIOR	437.94 to 442.35m: DIOR - DIOR-2. pale grey w/ pinkish and greenish tints. med-grained less pheno-crowded diorite. patches of texture is destroyed by strong to intense silica alteration of qz-py+/-cpy veinlets running 10-15CA. silica alt overprints preexisting bt-mt alteration. ~15% fine-grained py disseminations and clots. trace specks of cpy?	100	91	15	0.1	2		2					2	4	
			100	41												
445	DIOR	442.35 to 450m: DIOR - DIOR-1. green. med-grained diorite. porph texture masked by overprinting silica alt. pheno-crowded. 40-50% anh mafics in aph gmass. mafics repl by mt. scattered grey-pinkish qz-veins upto 1.5cm @ 10-15degrees CA. significant qz-veins noted @ 446.5 & 449.25m: crudely banded qz-carb w/ chl-ser-py halos and specks of cpy and rare clots < 3mm. interval ~4% carb-py stringers and vlets. <1% ep-carb strgrs. EOH @ 450m	100	80.67	1	0.2	2		2	2	2		1	2	4	
			101.67	89.33												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346091	414	415	0.007	0.2	171.1	420	93.5	-66.3	Reflex EZ-Trac
3346092	415	417	0.012	0.4	286.3				
3346093	417	419	0.022	0.4	148				
3346094	419	421	0.028	0.3	155.4				
3346096	421	423	0.025	0.6	154.1				
3346097	423	424	0.035	0.5	132.5				
3346098	424	425.45	0.061	0.4	178				
3346099	425.45	427	0.082	0.6	224.4				
3346101	427	428.5	0.032	0.5	238.4				
3346102	428.5	429.95	0.011	0.3	229.8				
3346103	429.95	431.4	0.006	0.05	105.2				
3346104	431.4	432	0.033	0.6	203.6				
3346105	432	434	0.009	0.1	116.6				
3346106	434	436	0.018	0.2	116.1				
3346107	436	437.94	0.02	0.3	261.7				
3346108	437.94	439	0.092	0.8	144.4				
3346109	439	441	0.18	2.4	148.3				
3346111	441	442.35	0.077	0.6	95.2				
3346112	442.35	444	0.029	0.5	170.2				
3346113	444	446	0.048	1.2	171.3				
3346114	446	447	0.08	2.3	113.5				
3346115	447	449	0.009	0.3	168.9				
3346117	449	450	0.015	0.3	142.5				

DYKE

Legend

Lith Code

- DIOR — Diorite
- HYBX — MBX and SS Stocks: Hydrothermal breccia

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Lithology

Lith Code	Description
CASE	0 to 6m: CASE - Casing. Overburden for 30cm, rounded boulders and rubble.
DIOR	6 to 8.34m: DIOR - Green grey strongly alt diorite. Ep/ab alt obscuring the protolith texture; mostly peppered through as replacement with some P veining. Strong mg, most likely secondary. Patchy white qz around 6.6m. Weak limonite alt on fracs. Subtle contact into volcanic.
APXT	8.34 to 10.05m: APXT - Grey fine grained andesite crystal tuff. Increased oxidation on fracs. Weakly silicified. Phenos alt to ca and obscured; difficult to see crystal structure. Contacts are gradual and not distinct.
DIOR	10.05 to 39.95m: DIOR - Grey green altered diorite. Green ep/ab rich peppered texture as in above diorite up to 12.98m. Gradual alt change at 12.98m to grey; compositionally the same. Patches of ep but grains are mainly alt by ab. Around 15.6m, 1mm wide E1 veinlet. Oxidation remains on fracs until around 20.6m. At 20m, 40cm andesite raft, crystal tuff?, with increased ca veins and ca veining on contacts. At around 22m ab alt becomes more intense as replacement. Weak foliation and shearing at alt contact from 23-24.2m with increased py. At 24.2m transitions back into strong ep/ab alt. At 31.6m blk cl veining with ca orphans.

Geotechnical / Mineralisation

Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
76.33	29.67	0.2	0
99	43.33	0.2	0
99.33	53.33	0.4	0
101.33	23.67		
100	22.67		
97.33	50		
98.33	18.67		
98.67	52.33		
100.33	48.67		
98.33	41.33		
101.67	68		

Alteration Mineral Intensity

Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
2			1	3					
2							1	1	
2			1	3					
			2	1				1	FRZ
2			1	3					FO

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485501	6	7.2	0.019	0.05	79.9
3485502	7.2	8.34	0.057	0.05	74.6
3485503	8.34	10.05	0.055	0.05	75
3485504	10.05	11.3	0.019	0.05	78.1
3485505	11.3	12.98	0.022	0.05	65.1
3485506	12.98	14.5	0.017	0.1	90.6
3485507	14.5	16.5	0.02	0.3	241.4
3485508	16.5	18.5	0.036	0.3	212.1
3485509	18.5	20.5	0.041	0.2	227.7
3485511	20.5	22.5	0.049	0.3	261.3
3485512	22.5	24.2	0.015	0.5	481.2
3485513	24.2	26	0.015	0.4	309.2
3485514	26	28	0.011	0.2	208.7
3485516	28	30	0.012	0.3	285
3485517	30	32	0.014	0.4	391.4
3485518	32	34	0.01	0.4	434
3485519	34	36	0.017	0.4	359.9
3485521	36	38	0.013	0.2	249.8

DH Survey

Depth (m)	Azimuth	Dip	Tool

Depth: 5, 10, 15, 20, 25, 30, 35

Legend

Lith Code
- Field style
- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type
- FRZ — Fracture Zone
- FO — Foliation

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

MOUNTMILLIGAN

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Lithology

Lith Code	Description
DIOR	10.05 to 39.95m: DIOR - Grey green altered diorite. Green ep/ab rich peppered texture as in above diorite up to 12.98m. Gradual alt change at 12.98m to grey; compositionally the same. Patches of ep but grains are mainly alt by ab. Around 15.6m, 1mm wide E1 veinlet. Oxidation remains on fracs until around 20.6m. At 20m, 40cm andesite raft, crystal tuff?, with increased ca veins and ca veining on contacts. At around 22m ab alt becomes more intense as replacement. Weak foliation and shearing at alt contact from 23-24.2m with increased py. At 24.2m transitions back into strong ep/ab alt. At 31.6m blk cl veining with ca orphans.
APXT	39.95 to 51.54m: APXT - Grey fine grained andesite crystal tuff. Weakly sheared near contact to 42.3m, at 44m and 48.2m; with ca and cl; py increases in shear zones. Phenos are mm size and difficult to see, occasional euhedral plag up to 3mm. Rafts of diorite up to 18cm, with slightly fuzzy boundaries but distinctly different lith. 5mm ca crystals on frac at 51m. Gradual contact back to diorite; sharp change at 51.45m with 5mm qz/ca veins with kspar.
DIOR	51.54 to 57.07m: DIOR - Green ep/ab alt diorite. At 53.15-54m increase in ep with visible crystals and 2mm ca crystals on frac surface. Ca stringers and veinlets. mg is still strong except in ep rich section. Unclear lower contact into volcanic.
APXT	57.07 to 68.05m: APXT - Grey andesite crystal tuff alt by contact with diorite. Rafts of diorite with unclear boundaries, ab in diorite. Mottled ca alt of phenos, possibly plag. Shear zones with increased py and ca veining. More intense shear at 62.04m with 5% py, followed by 20cm of cl/cy fault gouge and minor rubble at 63m. Another py rich shear at 67.3m with 3cm ca veining.
ANTF	68.05 to 77.2m: ANTF - Grey fine grained andesite. Sharp contact with altered andesite above. Phenos are mm size and alt by ca. Tr ep and hm. At 72m ca veining increases to a very weak stwk and diss py also increases. At 75m low angle shear zone begins with up to 5% py; 15cm milled cl alt fault breccia with ca clasts ranging from mm's to 1cm. Abundant py continues into fault zone with fracs and black cl alt. From 75.9-76.3m ca flooded with a hint of pink colour. The fault continues after the ca flooding to 77.55m followed by more rich py anc ca veining to contact. 4cm ca vein marks contact.

Geotechnical

Depth	Recovery (%)	RQD (%)
0–100	101.67	68
	95.33	43.33
	100.33	48.33
	99.33	30
	100.67	66.67
	96.67	69
	91.67	80
	104.67	36.67
	97.67	74.67
	100.67	65
	98.33	50
	102.33	0
	98.67	44.67
	101.33	35.33

Mineralisation / Alteration Mineral Intensity

Depth	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
0–100	0.4	0	2			1	3					
	1	0	1				1		1	1	2	SZ
	0.5	0	3			1	3					
	3	0	1				1		2	2		SZ, FL
	4	0					1		2	1	1	SZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485521	36	38	0.013	0.2	249.8
3485522	38	39.95	0.017	0.5	563.5
3485523	39.95	41.5	0.008	0.6	258.2
3485524	41.5	43	0.015	0.4	345.9
3485525	43	45	0.016	0.5	341.1
3485526	45	47	0.0025	0.1	49
3485527	47	49	0.008	0.4	228.2
3485528	49	50	0.007	0.3	253.3
3485529	50	51.54	0.016	0.5	338.9
3485531	51.54	53	0.007	0.2	227.6
3485532	53	55	0.011	0.4	369.1
3485533	55	56	0.009	0.4	450.9
3485534	56	57.07	0.006	0.3	288.9
3485535	57.07	59	0.009	0.4	346.9
3485536	59	61	0.008	0.4	362.8
3485537	61	63	0.012	0.5	482.3
3485538	63	65	0.019	0.5	315.8
3485539	65	67	0.018	0.7	380.9
3485541	67	68.05	0.03	0.5	217.3
3485542	68.05	70	0.006	0.05	88.6
3485543	70	72	0.119	0.1	81.7
3485544	72	74	0.006	0.1	118.3
3485545	74	75.9	0.046	0.9	310.3

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff

Structure Type

- SZ — Shear Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Lithology

Lith Code	Description
ANTF	68.05 to 77.2m: ANTF - Grey fine grained andesite. Sharp contact with altered andesite above. Phenos are mm size and alt by ca. Tr ep and hm. At 72m ca veining increases to a very weak stwk and diss py also increases. At 75m low angle shear zone begins with up to 5% py; 15cm milled cl alt fault breccia with ca clasts ranging from mm's to 1cm. Abundant py continues into fault zone with fracs and black cl alt. From 75.9-76.3m ca flooded with a hint of pink colour. The fault continues after the ca flooding to 77.55m followed by more rich py anc ca veining to contact. 4cm ca vein marks contact.
DIOR	77.2 to 93m: DIOR - Green ep/ab alt diorite. Ep and ab pervasive obscuring original texture; mostly peppered texture with some patches of increased ep often associated with ca veining. Strong mg.
DIOR	93 to 104.45m: DIOR - Grey fine grained, plag rich diorite, very weak alt. 20% euhedral plag, diss secondary mg. Tr ep, weak silica alt, weak ca alt in groundmass. Ca veinlets contain weak cl and sometimes py; py finely diss. Sharp alt contact with diorite below.
DIOR	104.45 to 124.17m: DIOR - Green ep/ab alt diorite. Sharp alt

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
68.05–75.9	101.33	35.33	4	0					1		2	1	1	SZ, FL
75.9–77.2														
77.2–79	97.67	96.33	0.5	0	2			2	3					
79–81														
81–83	100	100												
83–85														
85–87	99.67	92.33												
87–89														
89–91	99	97												
91–93														
93–95	99	99												
95–97	100	63.67	0.5	0					1			1	1	
97–99	99.33	42.67												
99–101														
101–103	99.67	78												
103–104.45	99.33	58.33												
104.45–106	90	61.67	1	0	2			2	3					
106–108														
108–110	106	70.33												
110–112														
112–114	99.67	80.33												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485545	74	75.9	0.046	0.9	310.3
3485546	75.9	77.2	0.016	2.8	202.1
3485547	77.2	79	0.008	0.2	310.9
3485548	79	81	0.007	0.2	352.4
3485549	81	83	0.009	0.2	371.1
3485551	83	85	0.012	0.2	476
3485552	85	87	0.008	0.2	318.3
3485553	87	89	0.02	0.2	421
3485554	89	91	0.007	0.2	370.1
3485556	91	93	0.009	0.2	312.8
3485557	93	95	0.006	0.1	134.5
3485558	95	97	0.0025	0.05	90.2
3485559	97	99	0.006	0.05	82.4
3485561	99	101	0.006	0.05	101
3485562	101	103	0.005	0.05	101.5
3485563	103	104.45	0.006	0.05	88.3
3485564	104.45	106	0.007	0.1	185.4
3485565	106	108	0.011	0.1	196.9
3485566	108	110	0.011	0.2	210.5
3485567	110	112	0.037	0.2	237.7
3485568	112	114	0.008	0.2	245.7

DH Survey

Depth (m)	Azimuth	Dip	Tool
78	87.2	-60.7	Reflex EZ-Trac
108	91	-61	Reflex EZ-Trac

Legend

Lith Code

- ANTF — Andesitic Volcanic Rocks: Andesitic tuff
- DIOR — Diorite

Structure Type

- SZ — Shear Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	104.45 to 124.17m: DIOR - Green ep/ab alt diorite. Sharp alt contact with above diorite. Similar to alt diorite at 77.2m. Occasional patches of increased ep, mg strong throughout except in patches of increased ep. Tr E veins with Kspar. Between 114-123.6m intermixed with less alt diorite, up to 2m sections. Likely 2 phases of diorite; evidence of chilled margins at some contacts but not always.	99.67	80.33	1	0	2			2	3					
			100.67	88.33												
			99	64												
			101	50												
	APXT	124.17 to 136.73m: APXT - Grey andesite crystal tuff. Fine grained with ca alt phenos. Moderate mg, not as strong as in diorite. Contacts with diorite are sheared with increased ca veining and increase in py.	98.67	55.67	2	0	2						2	1	1	SZ
			102	9.67												
			101	54.67												
			103.33	0												
			100.33	60.33												SZ
	DIOR		100.33	65	1	0	2			2	3		2			
			98.67	54.67												
			100.33	29.33												
			100.33	53												
		136.73 to 167m: DIOR - Green strongly alt diorite. Pervasive ep and ab alt, ab a little stronger than previous and ep veins more common. Texture obscured by alt. White/grey qz veinlets with	96.67	53.33												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3485568	112	114	0.008	0.2	245.7	138	89	-60.8	Reflex EZ-Trac
3485569	114	116	0.01	0.1	203.4				
3485571	116	118	0.014	0.1	171				
3485572	118	120	0.015	0.2	280.7				
3485573	120	122	0.01	0.1	247.6				
3485574	122	123	0.01	0.1	142.1				
3485575	123	124.17	0.007	0.2	178.6				
3485576	124.17	126	0.006	0.1	145.4				
3485577	126	128	0.006	0.05	107.6				
3485578	128	130	0.0025	0.05	92.9				
3485579	130	132	0.0025	0.05	69.5				
3485581	132	134	0.0025	0.05	102.7				
3485582	134	135	0.008	0.2	150.6				
3485583	135	136.73	0.013	0.3	242.4				
3485584	136.73	138	0.014	0.2	221.1				
3485585	138	140	0.006	0.1	185				
3485586	140	142	0.006	0.2	209.6				
3485587	142	144	0.009	0.2	237.4				
3485588	144	146	0.007	0.2	254.5				
3485589	146	148	0.007	0.2	215.4				
3485591	148	150	0.006	0.2	189.1				
3485592	150	152	0.009	0.3	357.5				

Legend

Lith Code

DIOR Diorite

APXT Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

SZ Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Lithology

Lith Code	Description
DIOR	136.73 to 167m: DIOR - Green strongly alt diorite. Pervasive ep and ab alt, ab a little stronger than previous and ep veins more common. Texture obscured by alt. White/grey qz veinlets with minor py and associated with dark grn/blk cl. Blk cl veinlets increase from 154-155m with vuggy qz veining; also increase in ep with pitted/vuggy texture and visible crystals. At 162.22-164.7m weakly faulted contact into QSPC alt diorite, increase in ca veining. 2.5cm vein at 163.4m, ca and ep with a 4mm wide T3 vein of py and cp through the center. At 164.7m alt transitions back to propylitic. Sharp alt change at lower contact.
DIOR	167 to 191.3m: DIOR - Fine grained grey diorite, grades into more crowded intermediate grained phase at around 170m. Tr ep alt in groundmass, mainy in phenos. Plag avg 1-2mm, some plag crystals are zoned. Magnetic. Less than 1% diss py; cp speck in ca vein at 173.8m. Similar composition to a DRPD.

Geotechnical

Depth	Recovery (%) (0–100)	RQD (%) (0–100)
155	96.67	53.33
	98.33	59
	97.33	45
160	95.67	47
	101.33	52.67
165	100.33	33.33
170	99	57.33
	101.67	83.33
175	97.33	85
	100.67	85
180	98.67	70.67
185	99	76.67
	99	19

Mineralisation / Alteration Mineral Intensity

Depth	Pyrite (%) (0–10)	Chalcopyrite (%) (0–5)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
155	1	0	2			2	3		2			
160	1	0.3					1			1	2	
165	0.5	0.1	1			2	3					
170			2			1	1			1		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485592	150	152	0.009	0.3	357.5
3485593	152	154	0.007	0.1	139.8
3485594	154	156	0.011	0.2	218.3
3485596	156	158	0.014	0.2	290
3485597	158	160	0.007	0.2	269.7
3485598	160	161	0.011	0.05	118.7
3485599	161	162.22	0.006	0.1	104.1
3485601	162.22	163.5	0.133	1	1,667.8
3485602	163.5	164.7	0.012	0.2	196.3
3485603	164.7	166	0.007	0.1	208.9
3485604	166	167	0.008	0.2	239
3485605	167	169	0.006	0.05	93.4
3485606	169	171	0.013	0.05	65.3
3485607	171	173	0.005	0.1	159.3
3485608	173	175	0.0025	0.05	103.3
3485609	175	177	0.0025	0.2	49
3485611	177	179	0.0025	0.05	59
3485612	179	181	0.0025	0.05	70.5
3485613	181	183	0.0025	0.05	83.7
3485614	183	185	0.006	0.05	90.4
3485615	185	187	0.009	0.05	132.3
3485616	187	189	0.009	0.05	141.3

DH Survey

Depth (m)	Azimuth	Dip	Tool
168	95.3	-60.8	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Lithology

Depth	Lith Code	Description
190	DIOR	167 to 191.3m: DIOR - Fine grained grey diorite, grades into more crowded intermediate grained phase at around 170m. Tr ep alt in groundmass, mainy in phenos. Plag avg 1-2mm, some plag crystals are zoned. Magnetic. Less than 1% diss py; cp speck in ca vein at 173.8m. Similar composition to a DRPD.
195	DIOR	191.3 to 225m: DIOR - Green strong ep/ab alt diorite. Sharp contact with intermediate diorite. Weakly faulted from 191.6-192.2m with 20cm of gouged ca/ep rock flour. Occasional patches of stronger ep and p veining. Weak to mod mg throughout. Sharp lower contact with andesite.
225	APXT	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
190	99	19	0.5	0.1	2			1	1			1	
	100.33	57.33											
	100	90											
195	98	92.33											
	101	80.33											
	99.33	85.33											
205	99	96											
	99	95	0.5	0	2			1	3				
210	99.33	84											
	100.33	100.33											
215	98.67	94.33											
	99.67	99.33											
	98.33	76											
225	98	46.67	4	0	2			1	1			2	1

Structure Type: FL

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485616	187	189	0.009	0.05	141.3
3485617	189	190	0.008	0.05	107.8
3485618	190	191.3	0.009	0.05	101.5
3485619	191.3	193	0.0025	0.1	93.2
3485621	193	195	0.008	0.1	124.8
3485622	195	197	0.0025	0.1	170
3485623	197	199	0.005	0.2	247.6
3485624	199	201	0.005	0.2	302.7
3485625	201	203	0.01	0.3	212.9
3485626	203	205	0.005	0.05	109.9
3485627	205	207	0.008	0.2	255.4
3485628	207	209	0.011	0.2	255.2
3485629	209	211	0.012	0.3	295.2
3485631	211	213	0.012	0.2	262.8
3485632	213	215	0.013	0.2	235.1
3485633	215	217	0.007	0.2	277.6
3485634	217	219	0.007	0.2	226
3485636	219	221	0.01	0.2	203.1
3485637	221	223	0.013	0.2	164.9
3485638	223	225	0.023	0.4	350.7
3485639	225	227	0.009	0.2	111.6

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

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Lithology

Lith Code	Description
APXT	225 to 232.65m: APXT - Grey fine grained andesite crystal tuff. Weak stwk of ca stringers. Generally not magnetic, mg picks up around 230.6m through gradual contact into diorite. Frac'd and weakly sheared; increase in shear from 228.2-230.3m. At 228.7m, 30cm low angle shear with foliated py, fissile like cleavage. At 229.3m qz/kspar E vein; and at 229.85m, 4cm smokey grey qz E vein with py. Gradual contact with inclusions of diorite within the andesite
DIOR	232.65 to 269.7m: DIOR - Greenish grey diorite with ep/ab alt. Alt has a peppered type look with mainly ep and minor ab, protolith obscured by alt. Strong mg. At 239.15-239.8m rubble and frac'd zone with 5mm ca crystals on fracs. Patches of increased ab at 242m for 12cm and at 243.3m for 40cm; followed by more intense ep alt, rich pistachio green up to 244.7m. At 256.6-257.55m alt changes to dominantly NACA; mostly pale green ab flooded with some intersections of less alt grey diorite with patchy ep. Not mg through NACA alt. 1mm qz E vein at 254.9m; weak patchy Kspar alt visible through alt. At 257.55m alt transistions back to peppered ep/ab; mg picks up again but is more patchy and weaker than previous. Sharp alt contact with shear zone below.

Geotechnical

Recovery (%)	RQD (%)
98	46.67
100	25
101	89.33
99.67	86
99.33	51.67
101	97.33
99.67	62.67
97.67	40.67
100.67	49
100	66.33
98.67	74.33
100.33	100.33
99.67	84.67

Mineralisation

Pyrite (%)	Chalcopyrite (%)
4	0
0.5	0

Alteration Mineral Intensity

Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
2			1	1			2	1
3			2	3				
1	1		4	2				
2			2	3				

Structure Type

Structure Type
SZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485639	225	227	0.009	0.2	111.6
3485641	227	228.6	0.011	0.3	126.5
3485642	228.6	230	0.032	0.6	262.7
3485643	230	231.2	0.01	0.3	191.8
3485644	231.2	232.65	0.011	0.4	294
3485645	232.65	234	0.007	0.2	237.6
3485646	234	236	0.011	0.2	169.8
3485647	236	238	0.012	0.2	168.4
3485648	238	240	0.008	0.2	202.5
3485649	240	242	0.008	0.1	133.9
3485651	242	244	0.005	0.1	124.5
3485652	244	245	0.0025	0.05	31.4
3485653	245	246.6	0.005	0.3	272.4
3485654	246.6	248	0.012	0.3	273.9
3485655	248	250	0.008	0.2	169
3485656	250	252	0.007	0.1	95.5
3485657	252	254	0.006	0.2	169.2
3485658	254	256	0.007	0.2	148.4
3485659	256	257.55	0.007	0.2	210.2
3485661	257.55	259	0.009	0.5	430.8
3485662	259	261	0.009	0.1	70.4
3485663	261	263	0.006	0.2	203.5
3485664	263	265	0.011	0.3	359

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- DIOR — Diorite

Structure Type

- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

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Lithology

Lith Code	Description
DIOR	232.65 to 269.7m: DIOR - Greenish grey diorite with ep/ab alt. Alt has a peppered type look with mainly ep and minor ab, protolith obscured by alt. Strong mg. At 239.15-239.8m rubble and frac'd zone with 5mm ca crystals on fracs. Patches of increased ab at 242m for 12cm and at 243.3m for 40cm; followed by more intense ep alt, rich pistachio green up to 244.7m. At 256.6-257.55m alt changes to dominantly NACA; mostly pale green ab flooded with some intersections of less alt grey diorite with patchy ep. Not mg through NACA alt. 1mm qz E vein at 254.9m; weak patchy Kspar alt visible through alt. At 257.55m alt transistions back to peppered ep/ab; mg picks up again but is more patchy and weaker than previous. Sharp alt contact with shear zone below.
DIOR	269.7 to 275.82m: DIOR - Grey green cl rich diorite. Pervasive cl alt and increase in ca veining and ca replacement, weakly sheared. Remant pinksh qz orphans from early veins? Diorite textures and weak ep alt visible through cl alt. Diss py increases and minor foliation in shearing. 1cm Kspar/qz E vein at 269.9m. In ca veins from 276.8m blebs of honey coloured sphalerite and minor specks of cp. Magnetite is patchy, only occurs in less cl alt sections. Sharp contact back to ep alt diorite.
DIOR	275.82 to 293.11m: DIOR - Grey green ep/ab alt diorite. Peppered or dalmation ep alt texture. Strong secondary mg. Veining is weak; ca and ep veins, 1cm unmineralized bull qz vein with ep halo at 279.09m. Shear zone from 281.8-283.35m with ca flooding and minor silca flooding; py up to 5% From around 282.5m mylonitic ca and green c almost parallel to core axisl; at 283.25m changes to higher angle blk cl and ca shear, approx 30 degrees. At around 285.8-287m patches of ca flooding with specks of cp. 12cm cy rich shear zone with qz veining and py at 287.3m. At 287.45m back to ep/ab diorite.
DIOR	293.11 to 300.78m: DIOR - Grey medium grained diorite. Silicified and sheared, increase in ca veins and ca alt phenos. Patchy blk cl, mg is still strong except in major shearing. From 293.1-297.5m increased shearing with ca/cl veining at 30 degrees to core axis. Trace wispy ep stringers. At 296.85-297m, shearing more intense, weak mylonitic texture with increased diss py. From 297.5m gradual contact into ep/ab alt diorite.
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
232.65	99.67	84.67	0.5	0	2			2	3				
234.65	99.67	96.67											
236.65	99.67	93.67											
238.65													
240.65													
242.65													
244.65													
246.65													
248.65													
250.65													
252.65													
254.65													
256.65													
258.65													
260.65													
262.65													
264.65													
266.65													
268.65													
269.7	99.67	72	3	0.1	1						2	1	
271.7													
273.7													
275.7	101.67	77.67											
277.7	98	98	0.4	0	3			1	3				
279.7													
281.7	98.67	64.33											
283.7													
285.7	100.33	73.67	5	0							2	3	1
287.7	99	82	0.5	0.1	2			1	3				
289.7	99	86											
291.7	99.67	99.67											
293.7	101	71.33	4	0							2	2	1
295.7	99	75.33											
297.7													
299.7													
300.78	101.67	74.33	1	0	3			1	3		2		

Assays / DH Survey

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Structure Type
3485664	263	265	0.011	0.3	359	
3485665	265	267	0.016	0.3	297.8	
3485666	267	268.5	0.016	0.2	225.3	
3485667	268.5	269.7	0.018	0.1	120.7	
3485668	269.7	271	0.023	0.4	332.2	SZ
3485669	271	273	0.02	0.4	357.8	
3485671	273	274	0.015	0.6	473.5	
3485672	274	275.82	0.019	0.5	377.1	
3485673	275.82	277.5	0.025	0.4	429.3	
3485674	277.5	279	0.046	0.3	413.9	
3485676	279	280	0.034	0.3	346.5	
3485677	280	281.8	0.011	0.3	378.4	
3485678	281.8	283.35	0.017	0.2	127.8	
3485679	283.35	285.2	0.015	0.3	355.1	
3485681	285.2	287.2	0.017	0.3	286.8	
3485682	287.2	289.2	0.014	0.2	252.9	
3485683	289.2	291.2	0.012	0.3	360.3	
3485684	291.2	293.11	0.014	0.3	350.6	
3485685	293.11	295	0.009	0.3	307.3	
3485686	295	297	0.01	0.3	323.1	SZ
3485687	297	299	0.027	0.3	359.9	
3485688	299	300.78	0.013	0.3	320.6	
3485689	300.78	302	0.008	0.1	172.2	

Depth (m) | Azimuth | Dip | Tool

Legend

Lith Code

- DIOR — Diorite

Structure Type

- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
305	DIOR	300.78 to 309.52m: DIOR - Green diorite. Ep/ab alt, peppered 'dalmation' alt; protolith texture obscured by alt. Moderate to strong mg. Darker grey patches, finer grained with stronger mg. At 308.5m, 20cm of compressed cy rich fault breccia; also at 309.33m to contact.	101.67	74.33	1	0	3			1	3		2			
			99.67	53.33												
			100.33	59.33												BZ
310	DIOR	309.52 to 311.5m: DIOR - Grey diorite, appears to be the same protolith as above and below but has been been sheared and alt. Flooded with black cl and ca vein intensity significantly increased. Ep halo on some ca veins. Diss py is abundant, mainly associated with ca veining but also occurs in groundmass.	100.33	43.33	5	0	1				1		3			BZ SZ
315	DIOR	311.5 to 316.65m: DIOR - Green diorite. Ep/ab alt, peppered 'dalmation' alt; protolith texture obscured by alt. Moderate to strong mg. Patches of increased cl alt, at 315.5m dark grey green cl alt becomes more intense with weak fault breccia texture, and cl slickensides. Qz/ca veining at 316.45m, patch from 1-5cm wide.	99.67	54	0.5	0	1			1	2		2			
			100	60.67												SLK
320	DIOR	316.65 to 321.45m: DIOR - Grey shear zone. 30cm of very black cl rich shear that breaks in a fissle like manner. Followed by silicified rock with weaker shearing and greener cl, abundant ca veining and py. Weakly potassic qz veinlets near contact, obscured by shearing. Occasional black cl stringers. Shears trend around 30 degrees to core axis which is consistent with previous shear zones. Sharp angled lower contact (30 degrees).	98	77	4	0							3		2	
325	DIOR		101	52	1	0	2			1	3					
			98.33	52.67												
			100.33	52												
			98.33	55												
335			98.67	53.33												
			99.67	81												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485689	300.78	302	0.008	0.1	172.2
3485691	302	304	0.014	0.2	307.9
3485692	304	306	0.021	0.1	214.7
3485693	306	308	0.013	0.2	188.7
3485694	308	309.52	0.011	0.3	319.6
3485695	309.52	311.5	0.008	0.4	288
3485696	311.5	313	0.008	0.4	214.6
3485697	313	315	0.011	0.3	223.8
3485698	315	316.65	0.016	0.4	248.2
3485699	316.65	318	0.037	0.1	76.8
3485701	318	320	0.008	0.1	85.8
3485702	320	321.45	0.012	0.3	165.8
3485703	321.45	323	0.009	0.4	369.8
3485704	323	325	0.008	0.2	225.7
3485705	325	327	0.006	0.2	160.4
3485706	327	329	0.018	0.3	246
3485707	329	331	0.012	0.3	308.1
3485708	331	333	0.013	0.3	519.7
3485709	333	335	0.011	0.2	328.8
3485711	335	337	0.008	0.1	191.2
3485712	337	339	0.007	0.2	309.1

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite

Structure Type

- BZ — Fault Breccia
- SZ — Shear Zone
- Structure Type

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Lithology

Lith Code	Description
DIOR	321.45 to 391m: DIOR - Green ep/ab alt diorite. At 326.75m, 5mm qz/Kspar E vein. From 327.2-329.3m darker green with wispy ep veining mixed with qz and increased py; darker green continues to around 331m where it transitions back into the common ep/ab alt diorite. From 346.45-349.4m alt contact with less alt grey diorite; appears to be the same diorite as above and below; finer grained then expected, more of a microdiorite. The microdiorite has the characteristic salt and pepper texture, grain size is 1-2mm; weak ep mainly in stringers; less magnetic than alt rock above and below. At 349.4m alt contact back inot ep/ab rich diorite which continues to end of hole. At 371.63-372.65m alt change to more ab alt diorite with visible phenos; coarser grained than micodiorite above. Followed by cl rich strongly mg diorite and silicified ep alt diorite. Weak shear zone at 375.55-376.15m with slight increase in py. At 376.15m transitions back to ep/ab alt diorite to end of hole. Different alt and grain size is likely due to diferent phases of diorite; sharp alt contacts but lith looks to be all a similar composition. EOH

Geotechnical

Recovery (%)	RQD (%)
99.67	81
98	86.67
98.33	71.33
101.33	87.67
101	90
98.33	98.33
98.67	93.67
99.67	80
101.33	96.33
98.33	98.33
99.67	99.67
98.33	87.67
100	76.33
97.33	45

Mineralisation

Pyrite (%)	Chalcopyrite (%)
1	0

Alteration Mineral Intensity

Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
2			1	3				
1				1				1
2			1	3				
1			1	1				
2			1	1		2		1
2			1	2				

Structure Type: SZ (375.55–376.15m)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485712	337	339	0.007	0.2	309.1
3485713	339	341	0.006	0.2	195
3485714	341	343	0.006	0.05	128.2
3485716	343	345	0.009	0.2	199.1
3485717	345	346.45	0.008	0.2	255.2
3485718	346.45	348	0.008	0.1	100.6
3485719	348	349.4	0.008	0.1	98
3485721	349.4	351	0.01	0.1	177.8
3485722	351	353	0.011	0.2	197.8
3485723	353	355	0.01	0.2	208.2
3485724	355	357	0.012	0.2	203.5
3485725	357	359	0.01	0.1	164.1
3485726	359	361	0.009	0.2	171.5
3485727	361	363	0.009	0.1	173.2
3485728	363	365	0.009	0.2	205.6
3485729	365	367	0.009	0.2	209.7
3485731	367	369	0.012	0.2	255.3
3485732	369	370	0.015	0.2	259.6
3485733	370	371.63	0.006	0.05	78.4
3485734	371.63	372.65	0.011	0.3	175
3485735	372.65	374.5	0.006	0.05	36.1
3485736	374.5	376.24	0.014	0.2	252.2
3485737	376.24	378	0.007	0.1	123.1

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code: DIOR — Diorite

Structure Type: SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-024	Max	391	05-Jun-2020	08-Jun-2020	433372.047	6086449.695	1230.003	87.2	-60.7	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 80 to 290 m. Bracketed by resitivity high in hangingwall (D vein corridor?) and yellow intermediate resistivity in footwall (altered volcanics or intrusives?); Chargeability low from 0 to 100m and moderate chargeability from 100m to EOH; Geophysics Line 6400N

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Lithology

Depth	Lith Code	Description
380	DIOR	321.45 to 391m: DIOR - Green ep/ab alt diorite. At 326.75m, 5mm qz/Kspar E vein. From 327.2-329.3m darker green with wispy ep veining mixed with qz and increased py; darker green continues to around 331m where it transitions back into the common ep/ab alt diorite. From 346.45-349.4m alt contact with less alt grey diorite; appears to be the same diorite as above and below; finer grained then expected, more of a microdiorite. The microdiorite has the characteristic salt and pepper texture, grain size is 1-2mm; weak ep mainly in stringers; less magnetic than alt rock above and below. At 349.4m alt contact back inot ep/ab rich diorite which continues to end of hole. At 371.63-372.65m alt change to more ab alt diorite with visible phenos; coarser grained than micodiorite above. Followed by cl rich strongly mg diorite and silicified ep alt diorite. Weak shear zone at 375.55-376.15m with slight increase in py. At 376.15m transitions back to ep/ab alt diorite to end of hole. Different alt and grain size is likely due to diferent phases of diorite; sharp alt contacts but lith looks to be all a similar composition. EOH
385		
390		

Geotechnical, Mineralisation, Alteration Mineral Intensity

Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
97.33	45	1	0	2			1	2					
101.33	28.33												
99.67	69.67												
96.33	78												
96.67	63.33												
88	34												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485737	376.24	378	0.007	0.1	123.1
3485738	378	380	0.038	0.1	162.7
3485739	380	382	0.024	0.3	486
3485741	382	384	0.014	0.2	366.2
3485742	384	386	0.021	0.3	485.5
3485743	386	388	0.009	0.2	257.9
3485744	388	390	0.017	0.1	264.9
3485745	390	391	0.02	0.2	292.9

DH Survey

Depth (m)	Azimuth	Dip	Tool
378	105.8	-62.2	Reflex EZ-Trac

Legend

Lith Code

DIOR Diorite

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	CASE	0 to 4.5m: CASE - casing. no recovery														
5	DIOR	4.5 to 44.2m: DIOR - DIOR-1. green and white. moderate limonite oxidation along fracture planes. med-grained pheno-crowded diorite. ~50% mafics partially repl by chl&mag. wk-mod ep-alb alteration of gmass. 1-2% ep-carb stringers. ~1% carb-chl veins and vlts. wk pyrite as dis grns and clots.	96	40												
			100	16.67												
10			96.33	24.33												
			96	12.67												
15			99	36.33												
			100	66.67												
20			100	84	0.2	0	3				3		3			
			100	62.67												
25			99.33	35.67												DYKE
30			100.67	79												
			100	66												
35			100	92.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346118	4.5	6	0.013	0.2	164.2
3346119	6	8	0.016	0.1	183
3346121	8	10	0.018	0.3	211
3346122	10	12	0.017	0.2	128.4
3346123	12	14	0.017	0.2	168.7
3346124	14	16	0.012	0.1	195.5
3346125	16	18	0.013	0.2	185.9
3346126	18	20	0.013	0.2	174.5
3346127	20	22	0.016	0.2	198.3
3346128	22	24	0.012	0.2	144.9
3346129	24	26	0.009	0.2	142.5
3346131	26	28	0.008	0.1	113.5
3346132	28	30	0.01	0.2	153
3346133	30	32	0.012	0.2	205
3346134	32	34	0.017	0.3	209.1
3346136	34	36	0.012	0.2	151.4
3346137	36	38	0.012	0.2	146

Depth (m)	Azimuth	Dip	Tool
30	273.1	-68.9	Reflex EZ-Trac

Legend

Lith Code

- Field style
- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Lithology

Lith Code	Description
DIOR	4.5 to 44.2m: DIOR - DIOR-1. green and white. moderate limonite oxidation along fracture planes. med-grained pheno-crowded diorite. ~50% mafics partially repl by chl&mag, wk-mod ep-alb alteration of gmass. 1-2% ep-carb stringers. ~1% carb-chl veins and vlts. wk pyrite as dis grns and clots.
ANDS	44.2 to 46.8m: ANDS - green. fine-grained andesite volcanics. locally hbl-phyric. patchy ep alteration as halos to fractures. patchy carb alteration. <1% pyrite min as vfg disseminations.
DIOR	46.8 to 61m: DIOR - DIOR-1. green-white. med-grained pheno crowded diorite. +50% anh 2-4mm mafics repl by mag. pervasive ep-ab alteration of gmass. <1% pyrite as vfg disseminations. ep also as fract coating.
ANDS	61 to 63m: ANDS - green. vfg to aphanitic andesitic volcanics. patchy ep alt as rounded clots and as fracture halos. locally hbl-phyric - reply by chl. chl strgrs ~2%
MZPP	63 to 66.2m: MZPP - MZPP(?). purplish-grey w/ patchy green tint. texturally destroyed by strong perv silica & carb alteration. ghosted fsp and mafic phenos 2-3mm. mafics repl by chl and py. <0.5% vfg pyrite as disseminated grains. ~1.5% carb stringers
DIOR	66.2 to 75m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite +50% anh phenos (hbl-px?) in aphanitic groundmass. phenos partially repl by chl and mag +5%. epidote alt as fracture halos. vfg pyrite <0.5% as disseminated grains.
TUFF	75 to 76.9m: TUFF - tuff? med-light grey. texturally obliterated by

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
4.5–44.2	100	92.67												
	99.33	62.33												
			0.2	0	3				3		3			
	101	88.33												
44.2–46.8	99.33	65.67	0.1	0	3				2			2		
	102	102												
	99.33	94												
	100	99.33	0.2	0	3				3		2			
	91.67	54												
	100	92.33												
61–63	99.33	48.33	0.1	0	2				2		1	2		
63–66.2	100.67	64	0.2	0							2	3	4	
	100	92.67												
	100	86.67	0.2	0	3				2		3			
75–76.9	100.33	51.33	2	0									5	

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346137	36	38	0.012	0.2	146
3346138	38	40	0.015	0.2	127.3
3346139	40	42	0.012	0.2	119.4
3346141	42	44.2	0.013	0.2	141.7
3346142	44.2	45.5	0.018	0.2	151
3346143	45.5	46.8	0.009	0.1	113.3
3346144	46.8	48	0.011	0.1	106.7
3346145	48	50	0.017	0.2	153.2
3346146	50	52	0.013	0.3	213.2
3346147	52	54	0.016	0.2	154
3346148	54	56	0.02	0.3	193.6
3346149	56	58	0.021	0.5	358.4
3346151	58	59.5	0.025	0.2	178.8
3346152	59.5	61	0.014	0.1	72.8
3346153	61	63	0.008	0.05	60.5
3346154	63	65	0.006	0.05	55.9
3346155	65	66.2	0.008	0.05	27.9
3346156	66.2	67.7	0.01	0.2	126.2
3346157	67.7	69	0.011	0.2	210.3
3346158	69	71	0.015	0.2	186.3
3346159	71	73	0.009	0.2	177.8
3346161	73	75	0.076	0.2	199.4
3346162	75	76.9	0.007	0.05	25.9

DH Survey

Depth (m)	Azimuth	Dip	Tool
47	274.2	-69	Reflex EZ-Trac
60	276.1	-69.3	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- TUFF — Tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Lithology

Lith Code	Description
TUFF	75 to 76.9m: TUFF - tuff? med-light grey. texturally obliterated by strong silica alteration. protolith undetermined. UC is strongly fractured cemented by carb-py. interval ~2% pyrite -- mostly proximal to UC fracture fill.
APXT	76.9 to 78.84m: APXT - grey-green. px-plag phyric andesitic crystal tuff. 20-30% 2-4mm subhedral phenos in vg ash matrix. wk perv ser-chl alteration. interval 5-8% carb-chl vlets and veins. locally weak shear foliated.
DIOR	78.84 to 82.44m: DIOR - DIOR-1. grey and light green. med-grained pheno-crowded diorite. +50% aphanitic mafics in aphanitic groundmass. phenos partially repl by magnetite. patchy ep-carb alt. <1% pyrite as vfg disseminations. rare late carb-chl vlets.
TUFF	82.44 to 86.5m: TUFF - tuff? med-light grey. texturally obliterated by strong silica alteration. protolith undetermined. interval mod-brk <15cm angular fragments of core. lower contact weakly sheared.
ANDS	86.5 to 88.15m: ANDS - light-grey. fine-grained andesite. locally phenocrystic -- anh phenos repl by carb +/- ep. UC/LC @ 65 degrees CA. trace py as vfg diss grains.
DIOR	88.15 to 92.6m: DIOR - DIOR-1. green. med-grained pheno-crowded diorite. +50% aphanitic mafics in aphanitic groundmass. phenos partially repl by chlorite-magnetite. patchy ep-carb alt. <1% pyrite as vfg disseminations. rare late carb-chl vlets.
DIOR	92.6 to 94.28m: DIOR - DIOR-3?. aphanitic dyke?. mod perv carb altered. sub-rounded patches of chl noted throughout. ~1% carb vlets. no notable texture.
DIOR	94.28 to 96.35m: DIOR - DIOR-1. grey. med-grained pheno-crowded diorite. 40-50% anh mafics in aph gmass. pervasive mod-str silica alteration. mafics partially repl by mag +5%. raft of underlying silica alt tuff @ 95-96.10m. <0.5% py as vfg disseminations.
TUFF	96.35 to 113.25m: TUFF - light grey w/ varying tints of purple and green. aphanitic massive silicified tuff. strong pervasive silica alteration throughout. scattered. chl +/- py clots < 4mm. 1-2% carb +/- chl strgrs. <2% patchy epidote along select fractures. trace py

Geotechnical / Mineralisation

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
0–100	0–100	0–100	0–10	0–5
75.0–76.9	100.33	51.33	2	0
76.9–78.84	86.67	62	0.1	0
78.84–82.44	97.33	19.33	0.1	0
82.44–86.5	91.67	17.67	0.2	0
86.5–88.15	101	88.67	0.1	0
88.15–92.6	100	100	0.2	0
92.6–94.28	100.67	86	0.01	0
94.28–96.35	100	48.33	0.1	0
96.35–98	100	61	0.1	0
98–100	100	63	0.1	0
100–102	100	33.33	0.1	0
102–104	100.33	58.67	0.1	0
104–106	100	18.33	0.1	0

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
75.0–76.9									5	
76.9–78.84						2	3	3	2	
78.84–82.44					2		2	2		FL
82.44–86.5									4	FL
86.5–88.15					1			4		
88.15–92.6	3				2		3	2		
92.6–94.28								3		
94.28–96.35									3	FRZ
96.35–98					1		2	2	4	
98–100					1		2	2	4	
100–102					1		2	2	4	
102–104					1		2	2	4	
104–106					1		2	2	4	
106–108					1		2	2	4	
108–110					1		2	2	4	
110–112					1		2	2	4	
112–113.25					1		2	2	4	

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346162	75	76.9	0.007	0.05	25.9
3346163	76.9	78.84	0.011	0.1	64.1
3346164	78.84	81	0.011	0.2	193.4
3346165	81	82.44	0.02	0.2	174.3
3346166	82.44	84.5	0.008	0.05	8.3
3346167	84.5	86.5	0.007	0.05	27.5
3346168	86.5	88.15	0.008	0.2	133.7
3346184	88.15	89.5	0.01	0.3	156.1
3346169	89.5	91	0.011	0.2	160.2
3346171	91	92.6	0.021	0.3	145.4
3346172	92.6	94.28	0.0025	0.05	40.7
3346173	94.28	96.35	0.009	0.2	100.8
3346174	96.35	98	0.009	0.05	9.4
3346176	98	100	0.007	0.05	12.3
3346177	100	102	0.008	0.05	57.4
3346178	102	104	0.0025	0.05	7.5
3346179	104	106	0.013	0.05	14.2
3346181	106	108	0.012	0.05	23
3346182	108	110	0.009	0.05	39.7
3346183	110	112	0.007	0.05	14.1
3346185	112	113.25	0.008	0.05	43.7

DH Survey

Depth (m)	Azimuth	Dip	Tool
77	277.8	-69.3	Reflex EZ-Trac
90	276.4	-69.5	Reflex EZ-Trac

Legend

Lith Code

- TUFF — Tuff
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Lithology

Lith Code	Description
TUFF	96.35 to 113.25m: TUFF - light grey w/ varying tints of purple and green. aphanitic massive silicified tuff. strong pervasive silica alteration throughout. scattered. chl +/- py clots < 4mm. 1-2% carb +/- chl strgrs. <2% patchy epidote along select fractures. trace py
ANDS	113.25 to 119.85m: ANDS - light-grey w/ purplish & greenish tint. fine-grained andesitic volcanics -- mod pervasive silica alteration and mod patchy carb alt. <1% fine-grained pyrite disseminations. ~2% carb stringers and vlets. weak-mod patchy magnetism.
ANDS	119.85 to 126.25m: ANDS - faulted. light-med grey-green. mod-brk to locally gougey core. str sil-carb-chl alteration. protolith fine-grained andesitic volcanics(?). <50cm gougey segments within interval.localized increase in fine-grained pyrite disseminations and shear banding.
DIOR	126.25 to 157.45m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% anhedral mafics phenos (hbl-px?) repl by chl & 2nd mag. weak-mod patchy ep+/-chl alteration mostly as fract halos. mod patchy albite alt of gmass. very weak pyrite min as rare strgrs and fracture coating assoc w/ ep & as very weakly diss grains. ~0.5% P-vlets. localized qz-vein @ 151.9m: ~2cm pinkish-grey qz vein with mod silica halo. slight increase in py disseminations noted - no cpy.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
115	100	18.33	0.1	0					1		2	2	4	
	101.33	77												
	99.67	74	0.2	0	2						2	3	3	
120	100	4												
	92.67	12.67	2.5	0							2	3	2	
125														FL
	99.33	55												
130	100	100												
	100	100												
135	100	100												
140	100	68.33	0.3	0	3			3	3		3			
	100	90												
145	100.33	100.33												
	100.67	99.67												
150	99.33	89.33												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346185	112	113.25	0.008	0.05	43.7
3346186	113.25	115	0.006	0.1	118
3346187	115	117	0.007	0.2	222.4
3346188	117	118.5	0.015	0.1	107.4
3346189	118.5	119.85	0.006	0.05	18.8
3346191	119.85	122	0.009	0.05	73.8
3346192	122	124	0.639	0.2	95.3
3346193	124	126.25	0.052	0.3	219.8
3346194	126.25	128	0.009	0.3	210.7
3346195	128	130	0.006	0.1	97.9
3346196	130	132	0.006	0.1	88.3
3346197	132	134	0.0025	0.2	145.6
3346198	134	136	0.007	0.1	131.7
3346199	136	138	0.007	0.2	107.5
3346201	138	140	0.009	0.05	48.7
3346202	140	142	0.008	0.1	77
3346203	142	144	0.0025	0.1	79.4
3346204	144	146	0.006	0.05	62.2
3346205	146	148	0.006	0.1	93.1
3346206	148	150	0.009	0.1	139.6
3346207	150	152	0.016	0.2	181.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
150	275.7	-69.5	Reflex EZ-Trac

Legend

Lith Code

- TUFF — Tuff
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- DIOR — Diorite

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout.
Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	126.25 to 157.45m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% anhedral mafics phenos (hbl-px?) repl by chl & 2nd mag. weak-mod patchy ep+/-chl alteration mostly as fract halos. mod patchy albite alt of gmass. very weak pyrite min as rare strgrs and fracture coating assoc w/ ep & as very weakly diss grains. ~0.5% P-vlets. localized qz-vein @ 151.9m: ~2cm pinkish-grey qz vein with mod silica halo. slight increase in py disseminations noted - no cpy.	99.33	89.33	0.3	0	3			3	3		3			
			100	93.67												
155			100	59												
	TUFF	157.45 to 161.95m: TUFF - grey with purplish tint. aphanitic silicified ash tuff w/ <10% ep-carb replaced < 2mm lapilli(?) or fsp phenos(?). vfg py as weak disseminations and < 1mm irregular stringers. 3-5% carb+/-ep stringers.	100.33	28.67	0.5	0					2			2	4	
160																
	DIOR	161.95 to 173.85m: DIOR - DIOR-1. dark green w/ lght green patches. med-grained pheno-crowded diorite. +50% anhedral 2-4mm mafic phenos (hbl-px?) in aphanitic groundmass. phenos partially repl by chl-mag. patchy ep alt of gmass and trace patchy alb. ~3% fine-grained py as diss grains and stringers assoc w/ epidote. localized sph @ 170.5m as low-fe variety (orange-tan) -- veined ~1cm thick w/ carb-chl halo. intermittent < 30cm dykelets of wk-porph diorite (DIOR-3?).	94.33	76.67	3	0	3			1	3		2	2		
165			100	93.33												
			100	89.33												
170			99.33	61												
	TUFF	173.85 to 177.7m: TUFF - grey with purplish tint. aphanitic silicified ash tuff w/ <10% ep-carb replaced < 2mm lapilli(?) or fsp phenos(?). vfg py as weak disseminations and < 1mm irregular stringers. 3-5% carb+/-ep stringers.	100	39	0.5	0					2			2	3	
175			100	84.33												
	DIOR		100.67	98.33	1	0.1	3			1	3		3	2	3	DYKE
180			100	92.33												
185			100	100												
			100	100												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346207	150	152	0.016	0.2	181.6
3346208	152	154	0.022	0.3	406.4
3346209	154	156	0.008	0.2	256
3346211	156	157.45	0.009	0.2	271.3
3346212	157.45	159.95	0.0025	0.05	14.4
3346213	159.95	161.95	0.0025	0.05	33.4
3346214	161.95	164	0.011	0.2	121.5
3346216	164	166	0.012	0.2	133.1
3346217	166	168	0.01	0.2	131.5
3346218	168	170	0.012	0.3	224.1
3346219	170	172	0.015	0.4	315.2
3346221	172	173.85	0.012	0.2	153.1
3346222	173.85	176	0.008	0.05	115.5
3346223	176	177.7	0.005	0.05	43.1
3346224	177.7	180	0.008	0.2	176.7
3346225	180	182	0.013	0.3	226.3
3346226	182	183.8	0.009	0.1	93.7
3346227	183.8	186	0.009	0.2	133.3
3346228	186	188	0.01	0.2	133.4
3346229	188	190	0.014	0.4	277.4

Depth (m)	Azimuth	Dip	Tool
167	272.2	-69.6	Reflex EZ-Trac
180	274.7	-69.6	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- TUFF — Tuff

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
190–205.8	DIOR	177.7 to 205.8m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. generally weakly mineralized: vfg pyrite disseminations ~1% with localized ~1cm bleb of cpy @ 177.85 & sporadic orange-tan sphalerite as bands and clots within qz-carb-chl veins found @ interval 198.6m-199.62m.	100; 99.33; 101; 100; 101; 100	100; 86.33; 92.33; 76.67; 98.67; 91	1	0.1	3			1	3		3	2	3	
205.8–212	TUFF	205.8 to 212m: TUFF - UC 25CA. grey with purplish tint. aphanitic silicified ash tuff w/ <10% ep-carb replaced < 2mm lapilli(?) or fsp phenos(?). vfg py as weak disseminations and < 1mm irregular stringers. 1-2% carb-py+/-ep strgrs.	100.33; 100.67	49; 52.33	0.5	0					2			2	3	
212–213.25	DIOR	212 to 213.25m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. generally weakly mineralized: vfg pyrite disseminations <1%	95.33	39.67	0.2	0	3			1	3		3			
213.25–217	TUFF	213.25 to 217m: TUFF - UC 40CA. grey with purplish tint. aphanitic silicified ash tuff w/ <10% ep-carb replaced < 2mm lapilli(?) or fsp phenos(?). vfg py as weak disseminations and < 1mm irregular stringers. 1-2% carb-py+/-ep strgrs.	100.67	77.67	0.5	0					2		2		3	
217–229	DIOR	217 to 229m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. generally weakly mineralized: vfg pyrite disseminations and rare stringers assoc w/ carb-chl	100.67; 100; 100	87.67; 70.67; 82	0.5	0	3			1	3		3	2		DYKE; DYKE

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346229	188	190	0.014	0.4	277.4
3346231	190	192	0.011	0.2	147.8
3346232	192	194	0.011	0.2	108.3
3346233	194	196	0.014	0.4	248
3346234	196	198	0.011	0.2	125.9
3346235	198	200	0.028	0.3	207.6
3346236	200	202	0.014	0.2	133.7
3346237	202	204	0.009	0.1	94
3346238	204	205.8	0.009	0.1	81.4
3346239	205.8	208	0.01	0.05	31.8
3346241	208	210	0.0025	0.05	16.1
3346242	210	212	0.0025	0.05	9.1
3346243	212	213.25	0.013	0.3	238.1
3346244	213.25	215	0.0025	0.05	10.4
3346245	215	217	0.007	0.05	42.3
3346246	217	219	0.021	0.3	257.6
3346247	219	221	0.008	0.2	168.3
3346248	221	223	0.014	0.2	187.6
3346249	223	225	0.008	0.2	198.2
3346251	225	227	0.014	0.4	281.6

DH Survey: Depth (m), Azimuth, Dip, Tool

Legend

Lith Code

- DIOR — Diorite
- TUFF — Tuff

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Lithology

Lith Code	Description
DIOR	217 to 229m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. generally weakly mineralized: vfg pyrite disseminations and rare stringers assoc w/ carb-chl
DIOR	229 to 238m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. intermittent qz-ca-py-chl veins upto 10cm with associated wk-mod silica halos upto. localized increase in pyrite mineralization proximal to veins. avg ~3%
DIOR	238 to 265.4m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. localized sph mineralization as interstitial banding within qz-carb-chl-ep veins upto 1.5cm. weakly disseminated pyrite. intermittent dykes of mzpp(?) -- see structures tab

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0 100	0 100	0 10	0 5										
	100	82	0.5	0	3			1	3		3	2		
	100	79												
230	100	82.33												
	99.33	51	3	0	3			1	3		3	2	3	
235	99	52												
	100.67	93.67												
240	100.67	76.67												
245	99.33	82.33												
	100	75.33	1	0	3				3		3			
250	100	74.33												
255	100.67	80.67												
	100	69												DYKE
260	100	95.67												DYKE
	99.33	50.67												

Assays / DH Survey

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346251	225	227	0.014	0.4	281.6	227	275.8	-69.7	Reflex EZ-Trac
3346252	227	229	0.019	0.5	440.7				
3346253	229	231	0.012	0.3	209.2				
3346254	231	233	0.017	0.3	192.7				
3346256	233	235	0.019	0.6	282.3				
3346257	235	236.47	0.014	0.4	288				
3346258	236.47	238	0.013	0.4	262.8				
3346259	238	240	0.01	0.3	255.3				
3346261	240	242	0.011	0.4	336.2				
3346262	242	244	0.012	0.2	150.5				
3346263	244	246	0.009	0.3	259.4				
3346264	246	248	0.014	0.4	427.1				
3346265	248	250	0.014	0.7	564.7				
3346266	250	252	0.013	0.3	239.1				
3346267	252	254	0.014	0.3	255.4				
3346268	254	256	0.02	0.4	335.4				
3346269	256	258	0.011	0.2	200.9	257	279.9	-69.6	Reflex EZ-Trac
3346271	258	260	0.013	0.5	415.8				
3346272	260	262	0.021	0.4	318.8				
3346273	262	264	0.011	0.3	271.2				

Legend

Lith Code

- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	238 to 265.4m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. localized sph mineralization as interstitial banding within qz-carb-chl-ep veins upto 1.5cm. weakly disseminated pyrite. intermittent dykes of mzpp(?) -- see structures tab	99.33	50.67	1	0	3				3		3			
MZPP	265.4 to 268.65m: MZPP - MZPP? light pinkish-grey. fine-med grained porph dyke. 20-30% anh mafic and fsp phenos in aphanitic gmass. mafics rpl by chl. fsp weakly sericitized. ep-chl as fracture infill and assoc w/ carb stringers. weak patchy mag <2%. weak pyrite mineralization as diss grains and clots < 5mm assoc w/ carb-ep stringers/vlets. LC faulted -- 268.20-268.65m: transitions from gouge into carb-cemented breccia.	100.67	16.67	1	0					2	2	3	3	2	FL
DIOR	268.65 to 276.5m: DIOR - DIOR-1. grey-green w/ patchy light-green. med-grained pheno-crowded diorite. +50% subhedral phenos dominated by mafics (hbl+/-px) partially repl by chl & mag. patchy mod epidote alteration of groundmass. trace patchy albite alt. localized sporadic low-fe sph mineralization as clots and interstitial bands within carb-qz-chl veining. very weak py mineralization as vfg disseminations and strgrs assoc w/ carb-ep.	100	84.67	0.5	0	3			1	3		3	2		
		100	54.33												
		99.33	60.67												
MZPP	276.5 to 280.11m: MZPP - MZPP? light grey-green with patchy pink tint. fine-med grained porph dyke. 20-30% subh mafic and fsp phenos in aphanitic gmass. mafics partially rpl by ep-carb. pervasive mod-str silica alteration. ep-carb as fracture infill assoc w/ minor py. weak patchy mag <2%. weak pyrite mineralization as diss grns and fract/strgr infill.	100	52.33	0.5	0	1				2			2	3	
DIOR	280.11 to 282.92m: DIOR - DIOR-1. dark and light green med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl-mag. wk-mod ep alteration throughout. trace patchy albite alt. weak fine-grained pyrite mineralization as disseminated grains.	99.33	34.33	0.1	0	3			1	3		3			
MZPP	282.92 to 299.9m: MZPP - MZPP? pinkish grey w/ patchy tints of green. fine-med grained monzonite(?). fsp-hbl phenos 1-3mm in aphanitic silicified groundmass. hbl phenos rpl by chl-ep. fsp phenos lightly ser altered. magnetite 1-3% as vfg disseminations. unsure if 2nd mag. ep-chl as strgrs and fracture infill associated w/ pyrite clots and grain aggregates. very weak py dissem grains.	100.67	28	0.3	0	2				2		2	2	4	
		100	71.33												
		100.67	71.67												
		99.33	67.33												
		100	90.33												
DIOR		100.67	83	2	0	3			1	3		3	2		

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346273	262	264	0.011	0.3	271.2
3346274	264	265.4	0.01	0.1	123.5
3346275	265.4	267	0.015	0.05	49.5
3346276	267	268.65	0.021	0.1	18.2
3346277	268.65	270	0.013	0.6	433.3
3346278	270	272	0.011	0.5	339.6
3346279	272	274.25	0.018	0.6	489.9
3346281	274.25	276.5	0.01	0.2	142.5
3346282	276.5	278.5	0.009	0.05	73.3
3346283	278.5	280.11	0.0025	0.05	21.2
3346284	280.11	281.5	0.01	0.2	139.8
3346285	281.5	282.92	0.011	0.3	238.4
3346286	282.92	284.5	0.009	0.05	23.3
3346287	284.5	286	0.009	0.05	38.8
3346288	286	288	0.01	0.05	26.3
3346289	288	290	0.006	0.05	31.1
3346291	290	292	0.009	0.05	15.8
3346292	292	294	0.008	0.05	23.3
3346293	294	296	0.008	0.05	16
3346294	296	298	0.006	0.05	22.5
3346296	298	299.9	0.01	0.05	28.8
3346297	299.9	302	0.034	0.6	450.5

Depth (m)	Azimuth	Dip	Tool
270	276.8	-69.7	Reflex EZ-Trac
287	275.7	-69.8	Reflex EZ-Trac
300	275	-69.7	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	DIOR	299.9 to 311m: DIOR - DIOR-1. dark and light green w/ patchy white. med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos repl by chl-mag in aphanitic groundmass. wk-mod pervasive ep alteration and trace patchy albite alt. ~2% pyrite disseminations and fract fill assoc w/ epidote. ~1cm qz-vein @ 307.8m: chl-py+/-ep halos. lower contact with underlying MZPP is obscured by qz-chl alteration	100.67	83												
			100	72.67												
305					2	0	3			1	3		3	2		
			100	79.67												
			100	37.33												
310													3	3	3	
	MZPP	311 to 325m: MZPP - MZPP? upper contact weakly sheared and mod-str chl-carb-hem-py altered. pinkish to greenish grey. fine-med grained monzonite(?). fsp-hbl phenos 1-3mm in aphanitic silicified groundmass. hbl phenos rpl by chl-ep. fsp phenos lightly ser altered. magnetite <1% as vfg disseminations. unsure if 2nd mag. ep-chl as strgrs and fracture infill. py as fg disseminations and rare stringers assoc w/ ep-chl.	100	55.67												
					3	0							4	3		
315			100	32.67												
			100	29.33												
320					1	0	1				3	2	3	2	3	
			100.67	83												
			100	77												
325																
	DIOR		99.33	69.67												
330			101	52.67												
					1	0	3			2	3		3	2		
			100	60.33												
335																
			100	76												
			100.67	62.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346297	299.9	302	0.034	0.6	450.5				
3346298	302	304	0.025	0.6	463.8				
3346299	304	306	0.011	0.6	415.9				
3346301	306	308	0.012	0.3	262.3				
3346302	308	310	0.011	0.4	265				
3346303	310	311	0.012	0.2	146.1				
3346304	311	313	0.016	0.1	84.3				
3346305	313	315.2	0.009	0.1	56.4				
3346306	315.2	317	0.012	0.05	44.5				
3346307	317	319	0.009	0.05	22.8				
3346308	319	321	0.009	0.05	13				
3346309	321	323	0.012	0.05	18.4				
3346311	323	325	0.007	0.05	21.6				
3346312	325	327	0.017	0.4	295.9				
3346313	327	329	0.012	0.2	175.1				
3346314	329	331	0.014	0.3	200.9	330	279.8	-69.8	Reflex EZ-Trac
3346315	331	333	0.013	0.4	283				
3346316	333	335	0.016	0.4	220				
3346317	335	337	0.016	0.5	373				
3346318	337	339	0.018	0.6	446.4				

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout.
Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Lithology

Depth	Lith Code	Description
340–383	DIOR	325 to 383m: DIOR - DIOR-1. dark and light green w/ patchy white. med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos repl by chl-mag in aphanitic groundmass. wk-mod pervasive ep alteration and wk patchy albite alt. ~1% pyrite as disseminations and fract fill assoc w/ epidote. ~1% carb veins with chl halos +/- py. localized py stringers @ 350-351m.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
340–342	100.67	62.67												
342–344	100	74.33												
344–346	100	63.33	1	0										
346–348	100.67	61												
348–350	100	75	1.5	0										
350–352	100.67	90.67												
352–354	100	78.67			3			2	3		3	2		
354–356	99.33	75												
356–358	101	94.33	1	0										
358–360	100	90.33												
360–362	100	91.33												
362–364	99.33	91.33												
364–366	100	89.33												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346318	337	339	0.018	0.6	446.4
3346319	339	341	0.031	0.6	472.5
3346321	341	343	0.014	0.5	382.9
3346322	343	345	0.017	0.5	407.8
3346323	345	347	0.017	0.5	389.6
3346324	347	348.5	0.017	0.5	350.5
3346325	348.5	351	0.012	0.2	162
3346326	351	353	0.01	0.3	229.3
3346327	353	355	0.007	0.3	174
3346328	355	357	0.0025	0.2	126.8
3346329	357	359	0.006	0.3	128.8
3346331	359	361	0.011	0.3	120.7
3346332	361	363	0.012	0.3	147.3
3346333	363	365	0.012	0.4	227.4
3346334	365	367	0.015	0.5	312.6
3346336	367	369	0.085	0.4	309.6
3346337	369	371	0.014	0.4	363.7
3346338	371	373	0.016	0.6	471.7
3346339	373	375	0.024	1	844.6
3346341	375	377	0.021	0.6	482.8

DH Survey

Depth (m)	Azimuth	Dip	Tool
347	280.1	-70	Reflex EZ-Trac

Legend

Lith Code

DIOR — Diorite

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-025	Max	383	09-Jun-2020	12-Jun-2020	432505.502	6086778.454	1312.959	273.1	-68.9	NQ	John Tejada	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Intrusive unit (diorite?) associated with flat-lying resistivity high from 70 to 400 m. Low to moderate chargeability anomaly throughout. Resistivity low until ~200 m (upper peripheral D-vein zone?) with resistivity high from 200 to EOH (diorite or intrusive); Geophysics Line 6800N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
			0 100	0 100	0 10	0 5																				
380	DIOR	325 to 383m: DIOR - DIOR-1. dark and light green w/ patchy white. med-grained pheno-crowded diorite. +50% anh-subh hbl-px phenos repl by chl-mag in aphanitic groundmass. wk-mod pervasive ep alteration and wk patchy albite alt. ~1% pyrite as disseminations and fract fill assoc w/ epidote. ~1% carb veins with chl halos +/- py. localized py stringers @ 350-351m.	100	89.33	1	0	3			2	3		3	2			3346341	375	377	0.021	0.6	482.8				
			100	99													3346342	377	379	0.01	0.4	313.7				
																	3346343	379	381	0.014	0.2	201.2				
			100	76.33													3346344	381	383	0.013	0.1	128.7				

Legend

Lith Code

DIOR Diorite

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology

Lith Code	Description
CASE	0 to 2.3m: CASE - 2m of casing and 30cm of rubble overburden.
ANTF	2.3 to 8.83m: ANTF - Grey fine grained andesite tuff. Heavily oxidized on fracs. From 5.8-7.1m bleached and oxidized veins throughout, also silicified. From 7.1m rubble contact into 20cm silicified porphyritic dyke; appears to be a DRPD, silica blasting has removed mg but still very weakly magnetic. Rubble and heavily oxidized at lower contact of dyke as well around 8m. Andesite has sharp lower contact.
MZPP	8.83 to 15.2m: MZPP - Mega crystic monzodiorite. Grey goundmass with white feldspar and pink feldspar crystals. Plag and Kspar crystal laths avg 2cm with some up to 4cm long; finer grained plag laths also in groundmass avg 2mm; less than 5% hbl in small clusters. Weak ep stringers and tr patches within groundmass. 4cm xenolith of andesite. Magnetic. Weakly silicified. Some plag are zoned. Lower contact is clear but in rubble zone.
ANTF	15.2 to 29m: ANTF - Grey aphanitic andesite tuff. Rubble and fracs at contact; possible DRPD dyke similar to one at 7.5m contacts unclear through rubble. From around 16.6-18m appears to be hornfelsed; pale grey porcelain type appearance. Transisitons into pale grey, heavily oxidized, rubbly, aphanitc andesite. Py weak, localized on fracs. Rubble intensifies around 24.30m and weak hornfelsing close to contact with diorite. Oxidation drops off around 25m.
DIOR	29 to 47.09m: DIOR - Green alt diorite. Varying degrees of intensity in ep and ab alt; ab is weak; difficult to see protolith

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
0–2.3													
2.3–5.8	92.33	30.33	3	0					1				1
5.8–8.83	75.67	21.67											
8.83–11.83	89.67	30.67	0.2	0					1		1		1
11.83–14.83	98.33	24.33											
14.83–17.83	86.67	6.67	0.2	0					1				1
17.83–20.83	80	4.67											
20.83–23.83	99	0											
23.83–26.83	88.33	0											
26.83–29.83	77.67	0											
29.83–32.83	83.33	41.67	1	0	1			1	2				
32.83–35.83	100	52											
35.83–38.83	100	93.33											

Structure Type: DYKE (3485749); FRZ (3485756–3485763)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485746	2.3	4	0.017	0.1	102
3485747	4	6	0.018	0.1	94.8
3485748	6	7.1	0.01	0.05	19.9
3485749	7.1	8.83	0.008	0.05	44.1
3485751	8.83	10	0.0025	0.05	27.5
3485752	10	12	0.0025	0.05	17.1
3485753	12	14	0.0025	0.05	25.8
3485754	14	15.2	0.0025	0.05	22.6
3485756	15.2	17	0.005	0.05	13.9
3485757	17	19	0.0025	0.05	26
3485758	19	21	0.009	0.05	23
3485759	21	23	0.006	0.05	5.7
3485761	23	25	0.015	0.05	9.8
3485762	25	27	0.006	0.05	31.1
3485763	27	29	0.007	0.05	32.4
3485764	29	31	0.017	0.2	106.3
3485765	31	33	0.013	0.1	114.8
3485766	33	35	0.009	0.2	200.1
3485767	35	37	0.011	0.1	112.6
3485768	37	39	0.011	0.1	104.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
14	267.1	-85.2	Reflex EZ-Trac

Legend

Lith Code

- Field style
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
40	DIOR	29 to 47.09m: DIOR - Green alt diorite. Varying degrees of intensity in ep and ab alt; ab is weak; difficult to see protolith texture. At 38.2m possible sp with py in 3mm cl/ca/qz vein along the core axis. 3cm pinkish qz vein at 44.15m obscured by overprinted ep alt. Mg in weak and patchy, weaker than previously seen in this diorite. Unclear lower contact.	100	93.33												
			98.67	92.33												
			99	96	1	0	1			1	2					
45			98.33	82.67												
	APXT	47.09 to 49.1m: APXT - Grey fine grained andesite crystal tuff. Upper contact is unclear. Cl alt very weak mg. Around 47.9m inclusion of diorite silmilar to above, followed by paler grey andesite and 30cm sheared ca breccia. Breccia is almost all ca with some green cl, with minor qz, py and ep; very lightweight. Following the breccia is a compressed unit that appears to be a mix of diorite and andesite.	98.33	58	1	0	1				1		2	2		BX
50	APXT	49.1 to 56m: APXT - Mixing zone of fine grained andesite crystal tuff and diorite. Dominantly grey andesite similar to previous unit with increased ca veining. 16cm diorite inclusion at contact with sharp contacts, but most other diorite inclusion are muddled without clear contacts. At 152.7m, 1cm wide undulating pinkish qz vein in what appears to be an undulating diorite contact. Ep alt increases around 53.6m nearer to lower contact. At 56m gradually transitions into more diorite dominant.	100	75	2	0					1		1		2	
55			99.33	60.33												
	DIOR		100.33	93.67												
60			99.67	87.33												
			98.33	93												
65			100	49	2	0	2			1	2		2			FRZ
			99.33	99.33												
70		56 to 89.07m: DIOR - Dominantly green alt diorite with some mixing of andesite. Varying degrees of alt from ep rich and weak ab obscuring texture, to visible phenos alt by ep. At 57.22-57.52m dark grey, fine grained, magnetic andesite dyke. At 65.28m frac'd weakly faulted section of grey crystal tuff, still mg. At 66m contact back to diorite at 6mm cl/ca vein. At 77.4m and 80.5m, for 65cm and 55cm respectively, pale grey breccia zones with andesite clasts in a cl rich matrix; second breccia is paler grey and less cl than the first. At 84m-84.95m another pale grey weakly brecciated mix of andesite and diorite. Gradual lower contact into shear zone.	100.67	97.67												
75			98.33	87.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3485768	37	39	0.011	0.1	104.5				
3485769	39	41	0.015	0.2	192				
3485771	41	43	0.007	0.1	131.2				
3485772	43	45	0.011	0.05	82.3	44	269.4	-85.4	Reflex EZ-Trac
3485773	45	46	0.014	0.2	219.8				
3485774	46	47.09	0.011	0.2	266.8				
3485775	47.09	49.1	0.046	0.7	694.4				
3485776	49.1	51	0.017	0.3	251.3				
3485777	51	53	0.012	0.3	238.4				
3485778	53	55	0.038	1	1,254.6				
3485779	55	56	0.045	1.4	2,347.1				
3485781	56	58	0.023	0.9	1,253.3				
3485782	58	60	0.01	0.4	427				
3485783	60	62	0.055	1.4	1,721.2				
3485784	62	64	0.043	1.6	1,892.1				
3485785	64	66	0.027	0.7	961.8				
3485786	66	68	0.015	0.6	593.2				
3485787	68	70	0.024	0.8	801.3				
3485788	70	72	0.018	0.7	722.7				
3485789	72	74	0.017	0.6	661.3	74	273.9	-85.3	Reflex EZ-Trac
3485791	74	76	0.019	0.8	800.8				

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- BX — Breccia
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology

Depth	Lith Code	Description
80–90	DIOR	56 to 89.07m: DIOR - Dominantly green alt diorite with some mixing of andesite. Varying degrees of alt from ep rich and weak ab obscuring texture, to visible phenos alt by ep. At 57.22-57.52m dark grey, fine grained, magnetic andesite dyke. At 65.28m frac'd weakly faulted section of grey crystal tuff, still mg. At 66m contact back to diorite at 6mm cl/ca vein. At 77.4m and 80.5m, for 65cm and 55cm respectively, pale grey breccia zones with andesite clasts in a cl rich matrix; second breccia is paler grey and less cl than the first. At 84m-84.95m another pale grey weakly brecciated mix of andesite and diorite. Gradual lower contact into shear zone.
90–95	APXT	89.07 to 95.15m: APXT - Grey andesite crystal tuff. Sheared to around 90.7m; ca/cl veining avg 30 degrees to core axis. At 46.5m cy gouge at edge of sheared vein; broken edges of shears sharp with a layered appearance. Mafic phenos are mm size and only visible in less sheared sections. From 90.7m transititions to strongly consolidated fault breccia with minor rubble zones. Patchy ep alt, but mainly cl and weak silica. At 93.8-94.04m inclusion of ep alt diorite, followed by 6cm of py rich cy gouge. Slight increase in ca alt in fault breccia at contact.
95–110	APXT	95.15 to 108.45m: APXT - Grey green andesite crystal tuff. 10% phenos mainly aug and pyrox with minor hbl; phenos are greenish brown; alt by cl and bi? From upper contact to 101.55m pale grey still weakly faulted from above fault and phenos visible but not as well defined. Followed by 60cm of strong ep alt with ca veining. From 102.2m phenos are more well defined as described above. Looks like Takla formation. Slight alt change around 104.5m with increase in p veins with py and increase in ca veinlets; phenos smaller, less well defined. Around 108m patch of increased ca followed by silicified section with pale green ghostly plag. Lower contact 4cm ca vein.
110–112.7	MZPP	108.45 to 112.7m: MZPP - Mega crystic monzodiorite. Grey with white plag laths avg 2-3cm, less Kspar than previous of the same unit near the top of the hole. Weakly mg. Sharp contacts with andesite. Contains xeonoliths of andesite, indicating it is younger than surrounding andesite.
112.7–113.7	ANDS	112.7 to 113.7m: ANDS - Grey green andesite crystal tuff. More crowded and finer grained than previous andesite; approx 20%

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
80–85	98.33	87.67	2	0	2			1	2		2		
	100.33	68.67											
	100	55											
	98	59											
	98	22											
90–95	95.67	28	5	0					1		2		1
	102.67	29.67											
95–100	99.67	34.67	3	0									
	97.67	55.33			1				1		2		1
	99.33	69.67											
100–105	97.67	85.33	0.5	0									
105–110	100.67	52											
110–112.7	101	81.67	0.1	0	1								1
112.7–113.7			0.1	0							1	1	

Structure Type

Depth	Structure Type
90–95	SZ
90–95	FRZ
90–95	BZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485791	74	76	0.019	0.8	800.8
3485792	76	78	0.025	0.6	519.5
3485793	78	80	0.009	0.3	307.7
3485794	80	82	0.015	0.4	302.3
3485796	82	84	0.023	0.3	230.9
3485797	84	86	0.022	0.3	250.8
3485798	86	88	0.023	0.2	199.2
3485799	88	89.07	0.017	0.2	221.7
3485801	89.07	91	0.042	0.5	427.8
3485802	91	93	0.015	0.2	162.8
3485803	93	94	0.018	0.2	104.6
3485804	94	95.15	0.019	0.2	68
3485805	95.15	97	0.021	0.2	66.7
3485806	97	99	0.021	0.3	165.9
3485807	99	101	0.018	0.2	137.3
3485808	101	103	0.011	0.1	150.7
3485809	103	105	0.005	0.2	117.6
3485811	105	107	0.007	0.1	147.2
3485812	107	108.45	0.005	0.05	38.3
3485813	108.45	110	0.0025	0.05	43.6
3485814	110	111	0.005	0.05	26.3
3485815	111	112.7	0.0025	0.05	21.6
3485816	112.7	113.7	0.0025	0.05	1

DH Survey

Depth (m)	Azimuth	Dip	Tool
104	277.7	-85.8	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- SZ — Shear Zone
- FRZ — Fracture Zone
- BZ — Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology

Lith Code	Description
ANDS	112.7 to 113.7m: ANDS - Grey green andesite crystal tuff. More crowded and finer grained than previous andesite; approx 20% mm size phenos, appear to be mainly pyrox and aug. Minor rubble zone at 113m for 30cm. Qz/ca veinlets. Not magnetic and tr py.
FALT	113.7 to 122.35m: FALT - Green/grey weakly consolidated fault breccia and gouge. Up to 114.75m contains clasts that range from mm's up to several cm's in a cl/cy matrix, these clasts appear to be dominantly qz alt andesite. From 114.75-116.45m soft very green cl/cy gouge with localized weakly consolidated andesite with ca stringers. Transitions back to a fault breccia at 116.45m similar to above; localized weak shear; py increases. Very smooth cl slickensides at 122m; followed by gouge and fissile like fracs at contact.
DIOR	122.35 to 129.77m: DIOR - Grey medium grained diorite. Damage zone to fault above. Very frac'd and rubbly. 40cm zone of fault breccia with minor cy gouge at 124m. Weakly silicified otherwise farily unaltered. Minor ca/qz veining, diss py, 5mm black cl veins around 126m; magnetic. Angular pebbly rubble at lower contact.
APXT	129.77 to 149.78m: APXT - Grey andesite alt and faulted by nearby faults. Damage zone from above fault transistioning into alt contact to fault below. Pale grey silicified zone at contact to 131.1m, followed by a rubble zone to 132.9m. At 132.9-134m medium grained andesite crystal tuff, looks like Takla formation; weak py cl alt and tr mg. At 134m, 10cm of cy/cl fault gouge. After gouge protolith becomes more difficult to identify with weak shearing and silca alt; fault breccia at 137.4-137.68m with andesite clasts in a cy matrix. Qz/ca vein, 2cm wide, parallel to core axis at 138m with bleb of cp and poss sp; followed by shear zone with cl and purplish hm to around 141.2m. From 141.2m patches of increased silca alt and increased cl alt. Andesite has been weakly sheared making texture a little obscured but still recognizable as a crystal tuff. Qz/ca veining at contact back into fault gouge.
FALT	149.78 to 152m: FALT - Fault gouge. Weakly consolidated cl/cy with 15cm sections of qz/ca veining; qz has pinkish tint. Around

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
112.7–113.7	101	81.67	0.1	0							1	1	
113.7–115.5	94.67	8											
115.5–117.5	90.33	11.67	3	0							4		1
117.5–120.5	99	0											
120.5–122.35	94.33	4											
122.35–125.5	96	13	2	0	1								1
125.5–129.77	86.67	0											
129.77–131.5	92.67	8.67											
131.5–134.5	95	15.33											
134.5–137.5	94.67	13	2	0.1							2		2
137.5–140.5	97.67	31.33											
140.5–143.5	99.67	20											
143.5–147.5	101.67	24.33											
147.5–150.5	93.67	18.33	0.4	0							2		

Structure Type

Depth	Structure Type
112.7–113.7	BZ
113.7–115.5	FL
115.5–117.5	BZ
117.5–120.5	
120.5–122.35	FRZ
122.35–125.5	FRZ
125.5–129.77	FRZ
129.77–131.5	FL
131.5–134.5	SZ
134.5–137.5	BZ
137.5–140.5	
140.5–143.5	SZ
143.5–147.5	
147.5–150.5	FL

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485816	112.7	113.7	0.0025	0.05	1
3485817	113.7	115	0.014	0.2	91.1
3485818	115	117	0.006	0.1	112.4
3485819	117	119	0.072	0.3	199.9
3485821	119	121	0.495	0.5	297.6
3485822	121	122.35	0.054	0.3	160.9
3485823	122.35	124	0.062	0.3	192.6
3485824	124	126	0.017	0.1	98.2
3485825	126	128	0.019	0.2	81.6
3485826	128	129.77	0.019	0.2	145.8
3485827	129.77	131	0.019	0.1	91.2
3485828	131	133	0.008	0.2	83.9
3485829	133	134	0.0025	0.2	148.8
3485831	134	136	0.006	0.2	161.9
3485832	136	138	0.035	0.3	122.7
3485833	138	140	0.037	0.3	108.6
3485834	140	142	0.0025	0.2	112.7
3485836	142	144	0.007	0.2	156.3
3485837	144	146	0.0025	0.2	213.2
3485838	146	148	0.006	0.2	109.7
3485839	148	149.78	0.008	0.1	114.4
3485841	149.78	151	0.005	0.1	74.8

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- FALT — Fault
- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- BZ — Fault Breccia
- FL — Fault
- FRZ — Fracture Zone
- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology

Lith Code	Description
FALT	149.78 to 152m: FALT - Fault gouge. Weakly consolidated cl/cy with 15cm sections of qz/ca veining; qz has pinkish tint. Around 150.5m, 15cm of more competent rock, protolith appears to still be andesite similar to above fault. Sharp lower contact.
DIOR	152 to 210.53m: DIOR - Grey medium grained diorite. Weakly silicified at contact to around 153m, slightly obscuring texture. From 153m grades into grey salt and pepper diorite texture, patchy ep alt. Around 157m ep/ab alt increases to around 171.3m; weaker alt than previously seen in this lith. At 171.3m frac'd contact into silicified diorite; appears to be same composition as previous but pale grey and silica alt; tr ep patches. Phenos consist of mm size plag and mafics, slightly fuzzy from silca alt. At 177.13m weaker silca and clearer texture with crowded plag, 20%. Patchy silica and inclusions of andesite around 181-183m before going back into IPRO alt. Fine grained andesite dyke at 189.87-190.67m. At around 192m weakly silicified in frac zone with hm on frac surfaces, 20cm of cy gouge at 193.45m. Another fine grained andesite dyke at 202.26-202.93m with chill margins; weak mg and blotchy ep which looks like possible amygdule replacement. IPRO alt with weak ab and ep veining to lower contact.

Geotechnical / Mineralisation

Depth	Recovery (%) (0–100)	RQD (%) (0–100)	Pyrite (%) (0–10)	Chalcopyrite (%) (0–5)
0–149.78	93.67	18.33	0.4	0
149.78–155	99	51.67		
155–160	100	65.67		
160–165	100	70		
165–170	98.33	51.33		
170–175	100.33	63.67		
175–180	83.33	71	0.5	0
180–185	97.67	26.67		
185–190	96	48		
190–195	101	60.33		
195–200	98.67	54.67		
200–205	100.33	67.67		
205–210	101	55.67		
210–443	100	91		

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
0–149.78							2		
149.78–155									1
155–160									
160–165									
165–170	1			1	2				
170–175									
175–180									
180–185	1				1				1
185–190									
190–195	1				1				
195–200									
200–205									
205–210	1			1	1				
210–443									

Structure Type: FL (149.78–152m)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485841	149.78	151	0.005	0.1	74.8
3485842	151	152	0.009	0.4	256.5
3485843	152	154	0.005	0.2	93.4
3485844	154	156	0.025	0.6	279.4
3485845	156	158	0.008	0.2	123.1
3485846	158	160	0.008	0.2	158
3485847	160	162	0.007	0.2	164.5
3485848	162	164	0.007	0.2	154.8
3485849	164	166	0.01	0.4	159.3
3485851	166	168	0.009	0.2	67.6
3485852	168	170	0.008	0.3	210.3
3485853	170	171.3	0.0025	0.2	179
3485854	171.3	173	0.077	0.05	4.7
3485855	173	175	0.153	0.05	3.7
3485856	175	177	0.035	0.05	5.5
3485857	177	179	0.0025	0.1	78.1
3485858	179	181	0.0025	0.05	31.6
3485859	181	183	0.0025	0.1	86.6
3485861	183	185	0.01	0.3	202.3
3485862	185	187	0.015	0.2	130.1
3485863	187	188	0.0025	0.05	41.2
3485864	188	189.87	0.009	0.05	31.1

DH Survey

Depth (m)	Azimuth	Dip	Tool
176	275.8	-85.6	Reflex EZ-Trac

Legend

Lith Code: FALT – Fault; DIOR – Diorite

Structure Type: FL – Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology

Lith Code	Description
DIOR	152 to 210.53m: DIOR - Grey medium grained diorite. Weakly silicified at contact to around 153m, slightly obscuring texture. From 153m grades into grey salt and pepper diorite texture, patchy ep alt. Around 157m ep/ab alt increases to around 171.3m; weaker alt than previously seen in this lith. At 171.3m frac'd contact into silicified diorite; appears to be same composition as previous but pale grey and silica alt; tr ep patches. Phenos consist of mm size plag and mafics, slightly fuzzy from silca alt. At 177.13m weaker silca and clearer texture with crowded plag, 20%. Patchy silica and inclusions of andesite around 181-183m before going back into IPRO alt. Fine grained andesite dyke at 189.87-190.67m. At around 192m weakly silicified in frac zone with hm on frac surfaces, 20cm of cy gouge at 193.45m. Another fine grained andesite dyke at 202.26-202.93m with chill margins; weak mg and blotchy ep which looks like possible amygdule replacement. IPRO alt with weak ab and ep veining to lower contact.
APXT	210.53 to 214.65m: APXT - Grey green andesite crystal tuff. Silicified/cherty at contact to 211.35m. 15% phenos aug/pyrox that have been frac'd and broken; grades into darker grey more cl alt. Phenos appear to be a brownish green from cl/ep replacement. Becomes paler grey again at 214.35m to contact; weak chilled margin.
DIOR	214.65 to 231.89m: DIOR - Green medium grained diorite with propylitic alt. Occasional patches of increased ep; ab is weak more qz in groundmass. Greenish salt and pepper texture. Mg is still pervasive, weak to moderate. Undulating contact along core axis into andesite.

Geotechnical / Mineralisation

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
	100	91	0.5	0
	98.67	36.33		
	99.33	75.67		
	100	99		
	99.67	93		
	100.33	97.33		
	99.33	89		
	101	83.67	0.3	0
	100	93.67		
	101	92.33		
	90	81.33	0.5	0
	96.67	81.33		
	103.33	93		

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	1			1	1					
					1		1			
	1								1	
										FL
	1			1	1					
	1									
				1	2					
	1				1		1			
					1		2		1	
	2			1	2					

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485864	188	189.87	0.009	0.05	31.1
3485865	189.87	190.67	0.013	0.6	483.5
3485866	190.67	192	0.006	0.3	202.1
3485867	192	193.68	0.006	0.05	51.7
3485868	193.68	195	0.01	0.2	177.8
3485869	195	197	0.011	0.2	135.5
3485871	197	199	0.009	0.2	179.4
3485872	199	201	0.008	0.2	156.6
3485873	201	202.26	0.011	0.2	163.8
3485874	202.26	202.93	0.0025	0.1	85.5
3485876	202.93	204.5	0.007	0.2	133.3
3485877	204.5	206	0.007	0.2	137.4
3485878	206	208	0.006	0.2	153
3485879	208	209	0.006	0.3	191.4
3485881	209	210.53	0.019	1.4	1,054.5
3485882	210.53	212	0.0025	0.05	26.8
3485883	212	213	0.006	0.1	96.1
3485884	213	214.65	0.006	0.2	154.1
3485885	214.65	216.5	0.0025	0.2	161
3485886	216.5	218	0.006	0.2	153.9
3485887	218	220	0.007	0.2	173.6
3485888	220	222	0.01	0.2	145
3485889	222	224	0.007	0.2	164.4
3485891	224	226	0.006	0.2	214.8

DH Survey

Depth (m)	Azimuth	Dip	Tool
206	281.6	-85.9	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology

Depth	Lith Code	Description
230	DIOR	214.65 to 231.89m: DIOR - Green medium grained diorite with propylitic alt. Occasional patches of increased ep; ab is weak more qz in groundmass. Greenish salt and pepper texture. Mg is still pervasive, weak to moderate. Undulating contact along core axis into andesite.
235	APXT	231.89 to 237.85m: APXT - Grey andesite crystal tuff. 20% hbl and pyrox, avg 3mm. Snowflake plag, avg 5mm and 3% some look like anhedral plag and some are visibly twinned. Weak mg. Undulating lower contact along core axis.
240	DIOR	237.85 to 255.7m: DIOR - Green diorite. Weak ep/ab alt with patches of increased ep. Mg is still pervasive but weaker than previously in the same unit. At 244.85m transitions to a dark grey with cl alt and weak silica; black cl veins; not magnetic; around 246m gradual change back into green diorite.
255	APXT	255.7 to 259.27m: APXT - Grey green andesite crystal tuff. 15% aug/pyrox phenos with minor hbl. Contains 3% snowflake plag crystals; 5mm. Weak mg. Weak pervasive cl alt, tr ep and ca stringers. Patchy discontinuous ca vein at 258m. Sharp contacts with diorite.
260	DIOR	

Geotechnical

Recovery (%)	RQD (%)
103.33	93
100.33	95.33
103.33	97.67
100	79.67
97.33	77.33
100.33	95.67
100	82.67
100	95.67
99.67	96.67
100	97.33
99.33	98
100.33	90
100	100
99	99

Mineralisation / Alteration Mineral Intensity

Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
0.5	0	2			1	2					
0.3	0	1				1		1			
0.3	0				1	2		1		1	
0.3	0					1		2			
0.5	0	1			1	1					

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485891	224	226	0.006	0.2	214.8
3485892	226	228	0.007	0.2	186.3
3485893	228	230	0.006	0.2	169.7
3485894	230	231.89	0.02	0.2	173.8
3485895	231.89	233.85	0.005	0.2	132.6
3485896	233.85	235.85	0.0025	0.1	129.2
3485897	235.85	237.85	0.0025	0.1	146.9
3485898	237.85	239.5	0.0025	0.2	165.4
3485899	239.5	241	0.006	0.2	166.6
3485901	241	243	0.007	0.2	134.5
3485902	243	245	0.007	0.2	133.2
3485903	245	247	0.103	0.2	167.8
3485904	247	249	0.025	0.2	174
3485905	249	251	0.011	0.2	169.9
3485906	251	253	0.012	0.2	212.3
3485907	253	254	0.01	0.2	146.7
3485908	254	255.7	0.007	0.2	129.5
3485909	255.7	257.5	0.006	0.2	128.3
3485911	257.5	259.27	0.0025	0.2	107
3485912	259.27	261	0.009	0.3	187.4
3485913	261	263	0.016	0.7	471.1
3485914	263	265	0.011	0.3	166.8

DH Survey

Depth (m)	Azimuth	Dip	Tool
236	277.2	-85.9	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity									
Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	259.27 to 287.94m: DIOR - Green diorite. Similar to above at 237.85m. Mg is more patchy and weak. At around 282m starts to grade into less alt grey diorite, with increase in ca veining and black cl veining. Py starts to increase close to contact.	99	99												
		99.67	99.67												
		92	66.33												
		98.67	98.67												
		100.33	100.33	0.5	0	1			1	1					
		97.67	83.67												
		102	91												
		98	54.67												
DIOR	287.94 to 294.09m: DIOR - Silicified and sheared grey diorite. Gradual contact from grey diorite into more intensly cl alt with increased ca veining, speck of cp near contact in cl vein. Remnant diorite texture is still visible through alt until 290.5m where QSPC alt intensifies. Mg in cl rich zone up to around 290m. From 290.5-294.1m, qz and se flooded with purplish hm staining and spec hm. Blk cl vein stwk throughout. Py is diss more associated with darker cl alt than se. Specks of cp with strong qz/cl alt zones. Alt begins to drop off gradually around 293.9m with 2cm qz vein at contact.	98.33	87												
		103.33	103.33	2	0.3	1					2	3		3	SZ
		98	98												
DIOR	294.09 to 301.22m: DIOR - Grey medium grained diorite, looks similar to the propylitic in composition and grain size. Weakly silicified with dark cl alt. Weak fracs that intensify around 299m and 300.1m with weak gouge; also from 300.61-300.9m. Pervasive mg; tr hm stringers. Gradual contact into weak shear zone.	98	37.67	0.3	0	1						2		1	
		95	30.33	1	0	1					2	2		1	FRZ
DIOR															FRZ
															FRZ

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3485914	263	265	0.011	0.3	166.8				
3485916	265	267	0.01	0.2	193.4	266	276.8	-86	Reflex EZ-Trac
3485917	267	269	0.008	0.2	143.4				
3485918	269	271	0.01	0.2	175.4				
3485919	271	273	0.009	0.2	139.5				
3485921	273	275	0.013	0.2	143.9				
3485922	275	277	0.015	0.3	192.8				
3485923	277	279	0.009	0.2	152.4				
3485924	279	281	0.008	0.2	162.2				
3485925	281	283	0.009	0.2	144.7				
3485926	283	285	0.006	0.1	118.4				
3485927	285	286	0.009	0.1	135.4				
3485928	286	287.94	0.012	0.2	160.3				
3485929	287.94	289	0.056	0.6	444.4				
3485931	289	291	0.031	0.3	185.2				
3485932	291	293	0.023	0.3	333.9				
3485933	293	294.09	0.009	0.05	76.2				
3485934	294.09	296	0.008	0.1	139.1	296	279.6	-85.9	Reflex EZ-Trac
3485935	296	298	0.009	0.2	165.4				
3485936	298	300	0.005	0.1	115.2				
3485937	300	301.22	0.01	0.2	149.6				
3485938	301.22	303	0.011	0.2	156.8				

Legend

Lith Code

DIOR Diorite

Structure Type

SZ Shear Zone

FRZ Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
305	DIOR	301.22 to 308.9m: DIOR - Grey to dark grey sheared andesite. QSPC alt with mainly blk cl to around 306m where silica and se increase; protolith texture is obscured by alt. Se also increses for 40cm around 302.7m with a speck of cp. Pinkish grey qz veins, avg 3mm. Tr hm with qz veining at 306.7m; at 308m hm increases on fracs.	95	30.33	1	0	1					2	2		1	FRZ
			103.33	87.67												
			100.33	100.33												
310	DIOR	308.9 to 318.59m: DIOR - Grey medium grained weakly silcified diorite. Appears to be similar texture to propylitic alt diorite. Pervasive mg weak to moderate. Tr hm with cl veining. Contacts with shear zones are not sharp.	100	64.67	0.5	0	2								1	
			100	89												
315			99	76.67												
			101.33	101.33												
320	DIOR	318.59 to 327.59m: DIOR - Sheared with varying types of alt. From contact to around 319.62m, silicified with weak se alt and cl veinlets; remnant diorite texture still partially visible through alt. At 319.62m transitions into a crowded plag rich diorite? Groundmass is greenish se alt; plag are weakly foliated. Pinkish qz veins which increase at 321m for 40cm. At around 322.7m qz/se intensifies obscuring texture. At 323.7m pinkish grey qz flooding with splashy cp on fracs; angular fragments with qz. From 324.1-326.25m blk cl is the dominant alt, with 4mm E veins and very minor py. 326.25m to lower contact increases again in se alt with blk cl veins. Gradational contact into grey diorite.	98.33	67.33	1	0.4						3	3		3	SZ
			99.67	73.33												
325			96	70												
330	DIOR	327.59 to 350.8m: DIOR - Grey green diorite. Transitions from shear zone into grey medium grained diorite which becomes green with propylitic alt around 330.5m; ab is weak, mainly ep alt; mg is still pervasive but weak. At 334.5-336.25 darker grey	99	59.67	0.5	0	1			1	2					
			95	70.67												
335			105.33	70.67									2	1		SZ
			99	70.33			1			1	2					

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3485938	301.22	303	0.011	0.2	156.8
3485939	303	305	0.009	0.2	98.8
3485941	305	307	0.011	0.4	228.9
3485942	307	308.9	0.05	0.2	119
3485943	308.9	310.5	0.011	0.1	117.3
3485944	310.5	312	0.01	0.1	112.9
3485945	312	314	0.013	0.1	118.5
3485946	314	316	0.029	0.1	142.6
3485947	316	317	0.009	0.2	169.9
3485948	317	318.59	0.012	0.2	146.2
3485949	318.59	320.6	0.024	0.2	166.6
3485951	320.6	322	0.015	0.05	67.5
3485952	322	324	0.072	0.6	390.1
3485953	324	326	0.011	0.1	127.6
3485954	326	327.59	0.008	0.2	98.6
3485956	327.59	329	0.007	0.1	136.8
3485957	329	331	0.009	0.1	146.3
3485958	331	333	0.008	0.2	161.4
3485959	333	334.5	0.013	0.05	161.2
3485961	334.5	336.25	0.025	0.1	122.6
3485962	336.25	338	0.03	0.2	173.1
3485963	338	340	0.018	0.2	128.9

Depth (m)	Azimuth	Dip	Tool
326	283.3	-86.1	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone
- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
340	DIOR	327.59 to 350.8m: DIOR - Grey green diorite. Transitions from shear zone into grey medium grained diorite which becomes green with propylitic alt around 330.5m; ab is weak, mainly ep alt; mg is still pervasive but weak. At 334.5-336.25 darker grey weak shear zone with cl alt and ca/cl stringers. Minor gouge at upper contact into shear zone. Lower shear contact angled at 30 degrees. Continues in propylitic alt with varying degrees from moderate to weak; tr hm on fracs and with cl veinlets around 346m.	99	70.33												
			100.67	57.67												
345			97.33	44	0.5	0	1			1	2					
			100.67	35.67												
350	DIOR	350.8 to 353.7m: DIOR - Grey sheared and faulted diorite. 20cm of weakly consolidated cl rich fault gouge at approx 50 degree angle. From 351.18-351.94m strong QSPC alt with qz, cl and ca with increased py, obscuring protolith texture. From 351.94m alt weaker, still contains patchy pinkish grey qz; hm on fracs. 2cm of reddish grey, hm/cy, fault gouge at 352.52m. At 352.79m, 4cm andesite dyklet. Subtle transition back to grey diorite as above, rough angle measurement at contact is 40 degrees to core axis.	100.33	49	2	0							2	1	2	FL SZ FL DYKE
355	DIOR		98.33	71.67												
			99.33	89.67												DYKE
360			100	97												
			100.33	98												
365			98.67	93.33	0.5	0	2			1	2		1			
			100.33	75												
370			99.67	92.33												
375			100	98												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3485963	338	340	0.018	0.2	128.9				
3485964	340	342	0.014	0.2	159.5				
3485965	342	344	0.013	0.1	147.4				
3485966	344	346	0.017	0.2	145.8				
3485967	346	348	0.014	0.2	145.8				
3485968	348	349	0.006	0.05	82.3				
3485969	349	350.8	0.015	0.2	116.1				
3485971	350.8	352	0.32	1.8	167.3				
3485972	352	353.7	0.11	0.7	216.1				
3485973	353.7	355	0.015	0.4	263.2				
3485974	355	357	0.01	0.3	200.3	356	276.7	-86	Reflex EZ-Trac
3485975	357	359	0.011	0.2	179.5				
3485976	359	361	0.013	0.2	157.1				
3485977	361	363	0.01	0.2	158.2				
3485978	363	365	0.009	0.2	158.5				
3485979	365	367	0.008	0.2	163.9				
3485981	367	369	0.012	0.2	153				
3485982	369	371	0.01	0.2	130.1				
3485983	371	373	0.022	0.3	121.2				
3485984	373	375	0.024	0.2	124.6				
3485985	375	377	0.013	0.2	162.1				

Legend

Lith Code

DIOR Diorite

Structure Type

FL Fault

SZ Shear Zone

DYKE Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Downdip extension of 20-MAX08 (same pad). Intrusive unit (diorite?) associated with moderately west dipping resistivity high from 125m to 350m. Bracketed by yellow moderate restivity anomalies. Chargeability low (0 to 200m) and moderate (200m to EOH); Geophysics Line 6400N

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
380	DIOR	353.7 to 438.58m: DIOR - Green diorite. Propylitic alt is weak, tr patches of ab and patches of ep mainly on fracs and as vein halos. Weak mg throughout. Diss py avg 0.5% with occasional veinlets. Occasional greyish E veinlets, and T3 stringers. At 358.25-358.42m fine grained andesite dyke with ca stringers. Silicified section around 372.7m with increased diss py and 2cm gz vein. Andesite dykes at 377.3-377.4m, 381.89-382.06, both fine grained with weak ep and ca stringers. Minor shear at 385.6m for 30cm with increase in ca veining and py. Silicified section with increased py at 405.2-405.5m; weak hm on fracs. Andesite dyke at 411.53-411.87m with ep stringers crossing from diorite. Ca veinlet with py and poss sp, rusty brown, and 2cm cl alt halos at 426.05m. Patches of increased ep alt around 428m. Fine grained andesite dykes at 437.1-437.24m and 438.37-438.49m, rafts of andesite unit below. Sharp lower contact into andesite.	100	98	0.5	0	2			1	2		1		
			100	63.67											
			100	80.33											
385			100.33	23.67											
			99.67	56											
390			98.33	66											
			100	53.33											
395			100.67	74.67											
			99	56											
400			92.67	52.33											
405			100	64.67											
			100	90.67											
410			99.33	81											
			100.33	100.33											

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
DYKE	3485985	375	377	0.013	0.2	162.1				
	3485986	377	379	0.01	0.2	145.4				
	3485987	379	381	0.158	0.2	108.9				
DYKE	3485988	381	383	0.015	0.2	107.6				
DYKE	3485989	383	385	0.013	0.2	102.5				
SZ	3485991	385	387	0.165	0.2	68.2	386	279.8	-85.9	Reflex EZ-Trac
	3485992	387	389	0.013	0.1	142				
	3485993	389	391	0.011	0.2	152.1				
	3485994	391	393	0.013	0.2	162.5				
FL	3485996	393	395	0.013	0.2	184.9				
	3485997	395	397	0.042	0.2	145.4				
	3485998	397	399	0.009	0.1	112.3				
	3485999	399	401	0.019	0.1	85				
	3486001	401	403	0.031	0.3	155.3				
	3486002	403	405	0.04	0.2	153.5				
	3486003	405	407	0.013	0.3	184.2				
	3486004	407	409	0.011	0.2	135.3				
	3486005	409	411	0.021	0.2	133.6				
DYKE	3486006	411	413	0.019	0.2	127.9				
	3486007	413	415	0.01	0.2	150.6				

Legend

Lith Code

- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- SZ — Shear Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-026	Max	443	09-Jun-2020	13-Jun-2020	432605.162	6086338.511	1258.361	267.1	-85.2	NQ3	Bethany Duff	

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Lithology

Depth	Lith Code	Description
415	DIOR	353.7 to 438.58m: DIOR - Green diorite. Propylitic alt is weak, tr patches of ab and patches of ep mainly on fracs and as vein halos. Weak mg throughout. Diss py avg 0.5% with occasional veinlets. Occasional greyish E veinlets, and T3 stringers. At 358.25-358.42m fine grained andesite dyke with ca stringers. Silicified section around 372.7m with increased diss py and 2cm qz vein. Andesite dykes at 377.3-377.4m, 381.89-382.06, both fine grained with weak ep and ca stringers. Minor shear at 385.6m for 30cm with increase in ca veining and py. Silicified section with increased py at 405.2-405.5m; weak hm on fracs. Andesite dyke at 411.53-411.87m with ep stringers crossing from diorite. Ca veinlet with py and poss sp, rusty brown, and 2cm cl alt halos at 426.05m. Patches of increased ep alt around 428m. Fine grained andesite dykes at 437.1-437.24m and 438.37-438.49m, rafts of andesite unit below. Sharp lower contact into andesite.
420		
425		
430		
435		
440	ANTF	438.58 to 441.28m: ANTF - Grey fine grained very weakly silicified andesite. Weak ep veinlets and stringers and ca stringers. Patchy diss ep alt, could be replacement of phenos, no crystal sturcture of phenos remain. Magnetic. Tr py.
	DIOR	441.28 to 443m: DIOR - Green diorite. Simliar to above unit at 353.7-438.48m. Patches of incresed ep; weak cl alt. Diss py weak, py blebs in ca/cl veinlets. Rusty mineral poss sp in veinlet with py at 428.35m. EOH

Geotechnical / Mineralisation / Alteration Mineral Intensity

Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
100.33	100.33												
98.33	96												
98.67	96												
102.67	97												
100	96.33	0.5	0	2			1	2		1			
99.33	99.33												
100	100												
101	99.33												
101.33	100												
		0.2	0	1				1		1			
99.67	96.67	0.3	0	1			1	2		1			

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486007	413	415	0.01	0.2	150.6
3486008	415	417	0.01	0.2	156.6
3486009	417	419	0.009	0.2	162.5
3486011	419	421	0.011	0.2	139.8
3486012	421	423	0.009	0.2	147.9
3486013	423	425	0.009	0.1	131.7
3486014	425	427	0.01	0.2	161.9
3486015	427	429	0.01	0.2	126.5
3486016	429	431	0.008	0.2	134.4
3486017	431	433	0.018	0.3	200.9
3486018	433	435	0.009	0.2	148.1
3486019	435	437	0.011	0.2	154.2
3486021	437	438.5	0.009	0.2	118.4
3486022	438.58	440	0.007	0.2	171.4
3486023	440	441.28	0.006	0.1	107.6
3486024	441.28	443	0.013	0.2	168.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
416	279.6	-85.4	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity									
Lith Code	Description	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
CASE	0 to 3m: CASE - casing - no recovery														
DIOR	3 to 16m: DIOR - DIOR-1. green. strong limonite oxidation halos along fractures. localized intervals <20cm weathered to gravel sized angular fragments. med-grained pheno-crowded diorite. wk-mod magnetic ~3-5% mag. +50% mafic phenos (hbl-px) repl by chlorite in aphanitic groundmass. wk-mod epidote alteration halos to fracts. trace patchy albite alt of gmass. <0.5 diss grains of pyrite and rare stringers assoc w/ carb.	85.67	26.67	0.5	0	2			1	2		3			DYKE
		100	24.67												
		100	22.33												
		90	0												
DIOR		91.67	58.67	0.5	0.1	2				3		3	2		
		100	63												
		99.33	82.67												
		100	80.33												
		100	76.67												
		100	93												
		100.67	92.33												
		100	21.33												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346345	3	5	0.008	0.1	90				
3346346	5	7	0.013	0.2	192.7				
3346347	7	9	0.013	0.2	161.1				
3346348	9	11	0.013	0.2	162.2				
3346349	11	13	0.011	0.2	156.2				
3346351	13	15	0.016	0.5	266.2				
3346352	15	16	0.017	0.5	190.1				
3346353	16	18	0.012	0.2	154.6				
3346354	18	20	0.017	0.3	171.7				
3346355	20	22	0.017	0.5	177.7				
3346356	22	24	0.024	0.2	140.1				
3346357	24	26	0.017	0.3	211.4				
3346358	26	28	0.015	0.2	151.6				
3346359	28	30	0.012	0.2	160.4				
3346361	30	32	0.011	0.2	156				
3346362	32	34	0.013	0.3	164.6				
3346363	34	36	0.01	0.2	150.8				
3346364	36	38	0.009	0.2	127.5				

Legend

Lith Code

- Field style
- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
40	DIOR	16 to 67.7m: DIOR - DIOR-1. green. wk-mod limonite oxidation on fracture planes. med-grained pheno-crowded diorite. +50% 2-4mm subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl. 2-3% magnetite finely disseminated throughout. pyrite as weakly disseminated grains and grain aggregates associated with ep-carb stringers. trace cpy -- ~1cm clot in carb-chl vein @ 65.5m. ~1% carb-chl and ep-carb stringers and vlets.	100	21.33												
			100	78.67												
			98	44												
45			99.33	92												
			100	69.67												
50			100	97.33	0.5	0.1	2				3		3	2		
55			98	56.67												
			100	81.67												
60			98.67	90												
65			100.67	100												
			100	96.33												
70	TUFF	67.7 to 72.45m: TUFF - TUFF? SILICIFIED INTRUSIVE? UC 40CA. pinkish to greenish grey. variably weakly magnetic. aphanitic. texturally obscured by strong silica alteration. localized fsp(?) upto 2mm repl by epidote. weak fine-grained pyrite mineralization as disseminations and discont strgrs. trace cpy noted as discont stringer @ ~69.35m. fractures cemented by carb. LC in broken core.	99.33	7.67	1	0.1					2			2	4	
	DIOR	72.45 to 73.65m: DIOR - DIOR-1. broken UC. green. med-grained pheno-crowded diorite. +50% 2-4mm subh hbl-px phenos in aphanitic groundmass. phenos partially repl by chl. trace patchy ep alteration. 2-3% magnetite finely disseminated throughout. pyrite as weakly disseminated grains. <1% carb vlets.	100.67	53.33	0.1	0	2				1		2			
75	TUFF	73.65 to 75.82m: TUFF - TUFF? SILICIFIED INTRUSIVE? UC 40CA. pinkish to greenish grey. variably weakly magnetic. aphanitic. texturally obscured by strong silica alteration. localized fsp(?) upto 2mm repl by chl-ep. weak fine-grained	100	87.67	0.3	0	1				2		2		4	

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346364	36	38	0.009	0.2	127.5
3346365	38	40	0.013	0.2	163.9
3346366	40	42	0.022	0.3	147.7
3346367	42	44	0.017	0.4	267.4
3346368	44	46	0.026	0.3	152.5
3346369	46	48	0.013	0.2	156.2
3346371	48	50	0.014	0.2	124.4
3346372	50	52	0.015	0.2	177.8
3346373	52	54	0.018	0.2	190.8
3346374	54	56	0.01	0.2	166.2
3346376	56	58	0.014	0.2	124.2
3346377	58	60	0.011	0.2	141.5
3346378	60	62	0.011	0.2	157.3
3346379	62	64	0.012	0.2	127.7
3346381	64	66	0.011	0.3	193
3346382	66	67.7	0.009	0.2	145.8
3346383	67.7	70	0.011	0.05	33.3
3346384	70	72.45	0.016	0.05	8.9
3346385	72.45	73.65	0.016	0.1	138.7
3346386	73.65	75.82	0.017	0.1	19.5

DH Survey Depth (m)	Azimuth	Dip	Tool
42	94.4	-57.8	Reflex EZ-Trac
72	94.6	-58.1	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- TUFF — Tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Lithology

Lith Code	Description
TUFF	73.65 to 75.82m: TUFF - TUFF? SILICIFIED INTRUSIVE? UC 40CA. pinkish to greenish grey. variably weakly magnetic. aphanitic. texturally obscured by strong silica alteration. localized fsp(?) upto 2mm repl by chl-ep. weak fine-grained pyrite mineralization as disseminations and discont strgrs. carb-chl fracture
DIOR	75.82 to 79.63m: DIOR - DIOR-1. UC 40CA. green-grey. med-grained pheno-crowded diorite. +50% mafic phenos 2-4mm partially repl by chl. mod magnetic throughout. patchy wk-mod ep alteration as fract halos. weak pyrite min as vfg disseminations and fract fill. trace chl-vlets. ~1-2% carb-chl stringers/vlets.
TUFF	79.63 to 84.4m: TUFF - TUFF? UC ~90CA. med-gray. massive aphanitic with localized ~1mm anhedral fsp(?) repl by ep. texture obscured by strong silica alt. hi-fractured cemented by carb. trace py as fract fill and weak diss grns.
MZPP	84.4 to 98.03m: MZPP - SILICIFIED INTRUSIVE?. UC 35CA. pinkish-grey with patchy tints of green. localized ep-repl phenos(?) observed. generally texturally obscured by strong pervasive silica alteration. variably weakly magnetic. localized fault breccia @ 90.5-91.5m: 10-40% angular silicified clasts 0.5 to 4cm cemented by carb&gouge. pyrite generally weakly disseminated grains and fracture fill associated with carb. significant core loss @ 95.28-97.90m (~25cm recovery in total) -- fault? no gouge or rock flour. just angular fragments ~3cm
DIOR	98.03 to 102.82m: DIOR - DIOR-1?. UC/LC in broken core. green-grey. med-grained pheno-crowded diorite. 30-40% 2-4mm anhedral mafic phenos repl by chl-mag. 15-25% subh plag phenos 2-4mm. aphanitic groundmass. patchy ep alteration as fract halos. weak py mineralization as finely disseminated grains.
TUFF	102.82 to 108.85m: TUFF - TUFF? UC/LC broken core. fault damage zone. dull grey-green. vfg tuff(?). texturally destroyed by strong silica alteration. localized fsp(?) ~1mm crystals repl by ep. core mod-broken avg <10cm angular fragments and minor rock flour along select fractures. weak pyrite disseminations. joints cemented by carb.
TUFF	108.85 to 110.2m: TUFF - fault. protolith silicified tuff. interval intensely broken with ~80cm with coherent fault breccia. matrix supported fault breccia -- ~15% angular clasts 2mm to 40mm. matrix composed of clay, comminuted rock flour & carbonate. ~1% pyrite as fine grains in matrix.
TUFF	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
73.65–75.82	100	87.67	0.3	0	1				2		2		4
75.82–79.63	100	81.67	0.5	0	3				3		3		2
79.63–84.4	100	30	0.2	0					2			2	4
84.4–98.03	100	46.33	1	0	1				2		2	3	4
	100	3.67											
	100	7.67											
	78	5.33											
	35	7.33											
98.03–102.82	100.67	24.67	0.5	0	3				3		2	2	2
102.82–108.85	66.67	21.33	1	0					2				4
	91.33	4.67											
108.85–110.2	96	12.33										4	3
110.2–112.00	100	84.67	1	0					2			2	4

Structure Type: FL (84.4–90.5); FL (95.28–97.90); FRZ (102.82–108.85); FL (108.85–110.2)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346386	73.65	75.82	0.017	0.1	19.5
3346387	75.82	78	0.009	0.2	107.8
3346388	78	79.63	0.008	0.05	70.5
3346389	79.63	82	0.0025	0.05	23.5
3346391	82	84.4	0.0025	0.05	4
3346392	84.4	85.7	0.007	0.05	3
3346393	85.7	87	0.006	0.05	3.5
3346394	87	89	0.019	0.05	8.9
3346395	89	91	0.03	0.1	20.1
3346396	91	93	0.016	0.05	14.6
3346397	93	95	0.03	0.2	24.7
3346398	95	98.03	0.009	0.05	7.9
3346399	98.03	100.4	0.0025	0.05	41.3
3346401	100.4	102.82	0.012	0.2	197.7
3346402	102.82	105	0.024	0.2	31.4
3346403	105	107	0.008	0.05	17
3346404	107	108.85	0.006	0.05	14
3346405	108.85	110.2	0.025	0.2	31.5
3346406	110.2	112	0.025	0.2	47.8
3346407	112	114	0.014	0.05	9.4

DH Survey

Depth (m)	Azimuth	Dip	Tool
105	97.3	-58.2	Reflex EZ-Trac

Legend

Lith Code

- TUFF — Tuff
- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
115	TUFF	110.2 to 118.55m: TUFF - TUFF? UC/LC broken core. fault damage zone. dull grey-green. vfg tuff(?). texturally destroyed by strong silica alteration. localized fsp(?) ~1mm crystals repl by ep. mod-brk core @ 114.5-118.55m avg <10cm angular fragments and trace rock flour along select fractures. weak pyrite disseminations. joints cemented by carb.	100	84.67	1	0					2			2	4	FRZ
			99.33	26.33												
			98.67	17												
120	DIOR	118.55 to 120.45m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% 2-4mm mafics (hbl-px) in aphanitic groundmass. 3-6% magnetite ~1mm disseminations. <1% vfg pyrite disseminations assoc w/ ep fract fill.			0.3	0	3				2		2			
	DIOR	120.45 to 123.73m: DIOR - DIOR-3. UC25CA. grey. plag-phyric diorite. 10-15% 1-3mm anh-subh plag phenos in aph groundmass. weak silica overprint throughout. ep alteration as fracture halos. <1% vfg pyrite as diss grains and fract fill assoc w/ ep.	100.67	54	0.5	0					2			1	3	
125	DIOR	123.73 to 125.1m: DIOR - DIOR-1. UC 40CA. green. med-grained pheno-crowded diorite. +50% anh-subh 2-4mm mafic phenos (hbl-px) in aph gmass. 3-5% magnetite disseminated ~1mm grains. patchy ep-chl alteration as fract halos. <1% vfg pyrite as diss grains and grain -aggr associated w/ ep-chl stringers/fract fill	100.67	34.33	0.5	0	3				2		2			
	DIOR	125.1 to 129.5m: DIOR - DIOR-3?. distinct upper contact 40CA. green. finer-grained variety of overlying diorite. 2-3mm plag-hbl crowded diorite. (almost equigranular?) patchy ep alteration as fract halos. patchy chl alt. <1% py as vfg disseminations. mod-str magnetic throughout.	100	19	0.3	0	3				3		2			
130	TUFF	129.5 to 135.75m: TUFF - TUFF. UC 35CA. dull purplish-grey. silicified ash tuff? texture is difficult to observe. localized relict fsp crystals (xt tuff?) repl by ep carb. hi-fractured cemented by ep-carb. <1% vfg py disseminations.	100.67	28.67	0.5	0					2			2	4	
			100	22												
135	DIOR	135.75 to 151.55m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% 2-4mm mafic phenos in aphanitic groundmass. mod-str magnetic throughout +5% ~1mm disseminated. patchy ep alt as fract halos. chl pheno repl and as fract fill. <1% py as vfg disseminations and fract fill.	100	56.67	0.5	0	3				3		3			
			100	100												DYKE
			99.33	84.33												
145			100	88.67												
			100	70.67												
150			100	69												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346407	112	114	0.014	0.05	9.4
3346408	114	116.1	0.049	0.05	11.6
3346409	116.1	118.55	0.009	0.05	14.5
3346411	118.55	120.45	0.024	0.6	239.9
3346412	120.45	122	0.012	0.2	135.8
3346413	122	123.73	0.008	0.05	30.1
3346414	123.73	125.1	0.011	0.2	81.7
3346415	125.1	127.25	0.012	0.2	67.9
3346417	127.25	129.5	0.008	0.1	62.7
3346418	129.5	131	0.01	0.05	7.7
3346419	131	133.3	0.005	0.05	5.1
3346421	133.3	135.75	0.019	0.4	221
3346422	135.75	138	0.01	0.3	201.4
3346423	138	140	0.0025	0.2	162
3346424	140	142	0.007	0.2	171.2
3346425	142	144	0.012	0.2	173
3346426	144	146	0.016	0.2	183.5
3346427	146	148	0.015	0.2	184.5
3346428	148	150	0.01	0.2	177
3346429	150	151.55	0.009	0.2	198.2

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- TUFF — Tuff
- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Lithology

Lith Code	Description
DIOR	135.75 to 151.55m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% 2-4mm mafic phenos in aphanitic groundmass. mod-str magnetic throughout +5% ~1mm disseminated. patchy ep alt as fract halos. chl pheno repl and as fract fill. <1% py as vfg disseminations and fract fill.
TUFF	151.55 to 153.85m: TUFF - TUFF. UC 25CA. dark grey-green. massive vfg. texture obscured by strong pervasvie silica alteration. highly fractured cementedby carb+/-chl. 1-2% pyrite as finely disseminated grains and strgrs assoc w/ carb
DIOR	153.85 to 187.8m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% 2-4mm mafic phenos in aphanitic groundmass. trace ab as patchy alteration of gmass. mod-str magnetic throughout +5% ~1mm disseminated grains. patcy wk-mod ep alt as fract halos with localized intense zones. chl pheno repl and as fract fill. <1% py as vfg disseminations and fract fill.
DIOR	

Geotechnical, Mineralisation, Alteration Mineral Intensity, Structure Type

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	100	69	0.5	0	3				3		3			
			1	0							2	3	4	
155	100	64.67												
	100	86												
160	99.33	91.67												
	100	98.33												
165	100	84												
170	100	92.67	1	0	3			1	3		2	2		DYKE
	101.33	101.33												
175	100.67	96												
	98.67	96.67												
180	100	93												
	102	80.33												
185	93.67	47.33	0.5	0	3				3		4	2	1	

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346429	150	151.55	0.009	0.2	198.2
3346431	151.55	153.85	0.009	0.1	35.3
3346432	153.85	156	0.013	0.2	169.1
3346433	156	158	0.015	0.2	143.8
3346434	158	160	0.01	0.2	185.4
3346435	160	162	0.032	0.2	164.4
3346436	162	164	0.02	0.2	186.8
3346437	164	166	0.009	0.4	295.1
3346438	166	168	0.017	0.2	190.1
3346439	168	170	0.016	0.2	155.9
3346441	170	172	0.013	0.2	156.1
3346442	172	174	0.009	0.2	146.8
3346443	174	176	0.009	0.2	172.8
3346444	176	178	0.022	0.3	181.3
3346445	178	180	0.018	0.3	173.8
3346446	180	182	0.013	0.2	168.1
3346447	182	184	0.013	0.2	166.6
3346448	184	186	0.015	0.2	161.8
3346449	186	187.8	0.03	0.4	221.1
3346451	187.8	190	0.014	0.3	202.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
168	99.6	-58.5	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- TUFF — Tuff

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

centerraGOLD

Lithology

Lith Code	Description
DIOR	187.8 to 220.71m: DIOR - DIOR-1. dark-green and patchy light-green. med-grained pheno-crowded diorite. +50% anh mafic phenos 2-4mm repl by chl. 3-5% magnetite as ~1mm diss grains. intermittent hi-fractured zones with < 50cm gougey intervals (see structures tab). rock has weak shear foliation textures (phenos elongated and semi-aligned) proximal to gougey intervals. no increase in sulfide mineralization noted in faulted&sheared intervals. patchy weak to locally intense ep alteration as fracture halos. generally weak py mineralization as vfg disseminations with localized increase associated with epidote alteration. trace qz-veining as isolated occurence @214.25 -- irregular ~1cm qz-vein with ~20% interstitial pyrite.
FALT	220.71 to 223.75m: FALT - highly broken to locally intensely broken core. chaotic fault breccia @ 221.25-221.5m: 10-15% angular fragments of protolith in gouge cement. fault gouge @221.50-221.80m. protolith DIOR-1?. localized ~10cm interval with strong chlorite shear-foliation ~20degrees CA. hematite-chlorite-clay along fracture planes.
TUFF	223.75 to 231m: TUFF - protolith undetermined* texturally

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
190	93.67	47.33											
	74.33	22											
	94.33	40.33											
195	100	58											
	96.33	64											
200	99	67	0.5	0	3				3		4	2	1
	84.33	48											
205	96.67	80											
	100.33	89											
210	99.33	94.67											
	100	69											
215	83.33	39.33	1	0									
220	48	11	0.5	0							3	4	
225	96.33	69	0.5	0							4	4	

Structure Type: SZ (Shear Zone)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346451	187.8	190	0.014	0.3	202.6
3346452	190	191.5	0.034	0.4	264.5
3346453	191.5	193	0.022	0.2	137.1
3346454	193	195	0.053	0.2	93.4
3346456	195	197	0.381	0.4	128.9
3346457	197	199	0.022	0.4	206
3346458	199	201	0.018	0.2	146.8
3346459	201	203	0.011	0.2	129.8
3346461	203	205	0.02	0.2	167.4
3346462	205	207	0.019	0.3	143.7
3346463	207	209	0.015	0.2	178.2
3346464	209	211	0.013	0.1	149.9
3346465	211	213	0.009	0.3	210.3
3346466	213	215	0.024	0.2	132.5
3346467	215	217	0.014	0.2	150.7
3346468	217	219	0.02	0.4	238.2
3346469	219	220.71	0.015	0.2	131.5
3346471	220.71	222	0.031	0.2	113.6
3346472	222	223.75	0.016	0.2	111.7
3346473	223.75	225.5	0.066	0.2	96.7
3346474	225.5	227	0.07	0.3	143.4

DH Survey

Depth (m)	Azimuth	Dip	Tool
198	97.6	-58.6	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- FALT — Fault
- TUFF — Tuff

Structure Type

- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

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Lithology

Lith Code	Description
TUFF	223.75 to 231m: TUFF - protolith undetermined* texturally destroyed by strong shear-associated alteration. rock is strongly clay-chlorite+/-hematite altered. chlorite-stringers display strong shear foliation throughout interval averaging 10-25 degrees to CA. mosty non-magnetic with localized wk magnetic spots. hematite noted along fract planes. select fract planes have strong slickensides. pyrite mineralization generally weak <1% as vfg dissem.
DIOR	231 to 248m: DIOR - DIOR-1?. unsure of protolith. core is intact but rock is easiy broken to pieces by hand. texture mostly obliterated by clay-chlorite+/-hem-carb-ser-qz alteration. shear texture intensity is not as strong vs overlying TUFF unit. relict porphyrytic texture is locally observable. mod-magnetic throughout. shear foliation is reflected by chlorite stringers and phenocryst alignment where observable -- averages 15-25 degrees to CA. no significant or observable increase in sulfide mineralization associated w/ shear zone.
DIOR	248 to 256m: DIOR - DIOR-1. green-white. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics repl by chlorite. 3-5% magnetite as dissem fine grains. weak to moderate pervasive clay alteration and localized strong to intense clay alteration where rock is easily manipulated by hand. fine-grained pyrite as dissem grains and clots < 5mm assoc w/ carb-chl stringers and veins. locallized shear foliation of phenos ~30CA.
TUFF	256 to 259.9m: TUFF - TUFF? protolith undetermined. texturally destroyed by QSPC alteration. dull-grey with localized dark-green. mod-strong shear foliated tuff(?). shear foliation is discerned by chlorite stringers ~25degrees CA. <1% pyrite as vfg disseminations. variably weakly magnetic.
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
223.75–230	96.33	69	0.5	0							4	4	
230–235	91	71.33											
235–240	100	62.33								2	3	2	2
240–245	99.33	43.67											
245–250	100.33	39.33	0.5	0									
250–255	100	42											
255–260	93.67	14.67											
260–264	99.33	0											
264–267.5	100.67	20	0.5	0							4		
267.5–272.5	100	49											
272.5–277.5	100	43.67	0.2	0	2						3		3
277.5–282.5	100	95.33											
282.5–287.5	100	44.33	1	0	3						4	3	2

Structure Type: SZ (Shear Zone)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346474	225.5	227	0.07	0.3	143.4
3346475	227	229	0.123	0.2	101.9
3346476	229	231	0.012	0.1	97.2
3346477	231	233	0.021	0.2	245.2
3346478	233	235	0.015	0.2	156
3346479	235	237	0.02	0.2	179.4
3346481	237	239	0.027	0.3	254.1
3346482	239	241	0.021	0.4	264
3346483	241	243	0.022	0.3	164.9
3346484	243	245	0.014	0.1	119
3346485	245	246.5	0.096	1.1	135.6
3346486	246.5	248	0.063	0.7	140.4
3346487	248	250	0.013	0.1	104.1
3346488	250	252	0.017	0.5	163.5
3346489	252	254	0.011	0.3	229.2
3346491	254	256	0.016	0.4	397.5
3346492	256	258	0.166	0.4	202
3346493	258	259.9	0.044	0.2	131.7
3346494	259.9	262	0.01	0.1	99.7
3346496	262	264	0.007	0.1	133

DH Survey

Depth (m)	Azimuth	Dip	Tool
228	102.5	-59	Reflex EZ-Trac

Legend

Lith Code: TUFF – Tuff; DIOR – Diorite

Structure Type: SZ – Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

centerragold

Lithology

Lith Code	Description
DIOR	259.9 to 273.75m: DIOR - DIOR-1. green. med-grained pheno-crowded diorite. +40% 2-4mm subh hbl-px and ~10% visibile 2-4mm subh plag in aphanitic groundmass. mafics repl by chlorite. 3-5% magnetite as dissem grains. patchy wk-mod silica alt overprint. hematite along fract planes assoc w/ carb-chl. ~1% pyrite as dissem grains and grain-aggr assoc w/ carb-chl stringers. localized shear foliation noted with increased chl-hem-carb fracture fill semi-parallel to core axis.
DIOR	273.75 to 281.56m: DIOR - DIOR-1. dark-green and patchy light-green. med-grained pheno-crowded diorite. +50% ann mafic phenos 2-4mm partially repl by chl. 3-5% magnetite as ~1mm diss grains. patchy mod to locally strong epidote alteration of groundmass. trace patchy albite alt of gmass. generally weakly mineralized <1% vfg py as dissem grains and crudely banded stringers along carb-chl veins (chl halos noted on select veins),
DIOR	281.56 to 284.62m: DIOR - DIOR-3? fine-grained intermediate dyke. UC 40CA. weak pervasive ep alteration throughout. weak mag. weak pyrite mineralizaton <1% as vfg disseminations. <0.5% carb-chl vlets.
MZPP	284.62 to 289m: MZPP - pinkish-grey. UC/LC in broken core. texturally obliterated by intense silica alteration. relict porphyrytic texture is locally barely observable. remnant phenos(?) seem to be replaced by carb-hem. interval strongly fractured cemented by carb-chl+/-py. mod brk core.
DIOR	289 to 292.44m: DIOR - DIOR-3? UC in broken core. grey. porphyrytic plag-phyric diorite. 30-40% 1-3mm subh plag phenos in aph groundmass. trace plag phenos are zoned. wk pervasive ser throughout. carb-chl alteration halos to fracts. very weak py min as finely diss grains.
APXT	292.44 to 298.57m: APXT - andesitic px-phyric crystal tuff. green. 25-30% subh-euh 3-5mm px phenos in vfg ash tuff matrix. px phenos repl by carbonate and partially by shreddy biotite. 2-4% fine disseminations of magnetite. patchy ep alteration as weak fracture halos. <1% pyrite mineralization as vfg disseminations. ~1% carb vlets and strgrs
MZPP	298.57 to 300.43m: MZPP - pinkish-grey. UC 35CA. texturally masked by strong pervasive silica alteration. relict porphyrytic texture is locally -- ghosted 1-2mm fsp phenos. interval strongly fractured cemented by carb-chl+/-py. weakly magnetic ~1% mag as vfg dissem. weak pyrite mineralization as vfg disseminations.
ANDS	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
265	100	44.33												
	100.67	23.33												
	100	60.33	1	0	3						4	3	2	
270	100	88.33												
275	101.33	67.67												
	100	92	0.5	0	3			1	3		3	2	2	
280	100	78.67												
	99.33	46.33	0.5	0					2		2	2		
285	99	21.67	1.5	0							2	2	4	
290	98.33	48.33												
	99.33	68.67	0.5	0	3		2		2		2	2		
295	100	81												
	99	49.67												
300	100	70	1	0	1							2	4	
					3				3		2	2	1	

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346496	262	264	0.007	0.1	133
3346497	264	266	0.021	0.5	573.4
3346498	266	268	0.026	0.5	419.5
3346499	268	270	0.012	0.2	229.9
3346501	270	272	0.019	0.5	390.1
3346502	272	273.75	0.021	0.3	265.1
3346503	273.75	276	0.014	0.4	403.3
3346504	276	278	0.019	0.4	319.4
3346505	278	280	0.011	0.3	251.5
3346506	280	281.56	0.01	0.2	104.1
3346507	281.56	283	0.014	0.2	203.4
3346508	283	284.62	0.013	0.2	205.5
3346509	284.62	286.8	0.008	0.1	32
3346511	286.8	289	0.008	0.05	17.7
3346512	289	291.22	0.0025	0.1	85.7
3346513	291.22	292.44	0.01	0.05	117.7
3346514	292.44	293.75	0.005	0.1	75.7
3346515	293.75	295	0.007	0.05	125.6
3346516	295	297	0.005	0.05	114.3
3346517	297	298.57	0.006	0.05	99.4
3346518	298.57	300.43	0.0025	0.05	23.6
3346519	300.43	302	0.017	0.2	103.6

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

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Lithology

Lith Code	Description
ANDS	300.43 to 311.17m: ANDS - green-grey. fine-grained andesitic volcanics. mottled patchy mod ep-alteration. mod-magnetic throughout 3-5% ~1mm fine magnetite grains. patchy wk sil alt assoc w/ localized increase in pyrite. ~1% fine-grained pyrite as fine disseminations and grain aggr. trace Mn-carb as salmon pink discontinuous vlet infill
DIOR	311.17 to 314.2m: DIOR - DIOR-1. UC 25CAdark grey-green. medium-grained diorite. +50% 2-4mm anh mafics in wk silica altered gmass. mod-str magnetic 3-5% magnetite ~1-2mm disseminations. patchy chl-ep alteration as fracture halos. weak pyrite min as fine dissem grains.
APXT	314.2 to 329.1m: APXT - grey-green px-bearing andesite crystal tuff. 20-30% 3-5mm subhedral px-hbl phenos in vfg ash matrix. interval pervasively mod-str carb altered. wk varialbly magnetic. weak pyrite mineralization as vfg disseminations. interval ~3% carb-chl vlets/strgrs with wk chl halos.
ANDS	329.1 to 334.9m: ANDS - fine-grained andesitic volcanics. green-grey. pervasive mod-str carb alteration. wk chl alt as fract halos. interval 1-2% carb-chl vlets and strgrs. v weak pyrite min as vfg disseminations. variably magnetic - increases downhole in contact to diorite.
DIOR	334.9 to 336.45m: DIOR - DIOR-1. UC 30CA. green. med-grained pheno-crowded diorite. mod pervasive carb-qz alteration throughout. wk patchy ep alteraion. ~20% 1-2mm fsp phenos and +40% hbl phenos in aph gmass. weak mineralization as vfg pyrite disseminations. mod-str magnetic throughout.
ANDS	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
	100	70											
	100.67	100.67											
	100	87.67	1	0	3				3		2	2	1
	100	71.67											
	99.33	43.67	0.5	0	3				3		2	2	2
	101	35.67											
	100	49.33											
	100	80	0.2	0	1						2	4	
	100.67	5											
	101	33.33											
	100	54.33	0.2	0	2						2	4	
	101.33	49.67	0.2	0	3				1		3	4	2
	100	42.33	0.5	0							2	3	2

Structure Type: CN (between 3346523 and 3346524); CN (between 3346537 and 3346538); CN (between 3346541 and 3346542)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346519	300.43	302	0.017	0.2	103.6
3346521	302	304	0.0025	0.05	34.9
3346522	304	306	0.0025	0.05	27.2
3346523	306	308	0.0025	0.05	26.2
3346524	308	309.55	0.005	0.2	69.9
3346525	309.55	311.17	0.006	0.1	75.1
3346526	311.17	312.7	0.006	0.1	48.8
3346527	312.7	314.2	0.008	0.2	65.3
3346528	314.2	316	0.007	0.1	137.1
3346529	316	318	0.011	0.05	153.4
3346531	318	320	0.006	0.05	87
3346532	320	322	0.006	0.1	76.2
3346533	322	324	0.005	0.1	191.4
3346534	324	326	0.005	0.1	165.9
3346536	326	327.5	0.011	0.3	232.4
3346537	327.5	329.1	0.007	0.2	193.4
3346538	329.1	331	0.014	0.1	241.3
3346539	331	333	0.007	0.1	134
3346541	333	334.9	0.014	0.2	115.7
3346542	334.9	336.45	0.007	0.2	115.9
3346543	336.45	338	0.008	0.1	105
3346544	338	340	0.013	0.2	122.7

DH Survey

Depth (m)	Azimuth	Dip	Tool
309	104.7	-58.7	Reflex EZ-Trac

Legend

Lith Code

- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

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Lithology

Depth	Lith Code	Description
340–345	ANDS	336.45 to 347.56m: ANDS - fine-grained andesitic volcanics. grey-green. ~5% anh hbl(?) phenos in vfg groundmass. pervasive carb alteration w/ patchy mod sil alt. interval 3-4% carb stringers and vlets +/- chl. weak py mineralization as vfg disseminations.
345–350	ANDS	347.56 to 352.4m: ANDS - KPOT altered fine to med grained andesitic volcanics. green-grey to patchy blackish-green. where phenos are notable, 3-4mm phenos completely carb replaced. interval is cross-cut by sporadic carb-chl-py veins running ~15degrees CA -- veins have mod-str biotite alteration halos. notable increase in pyrite mineralization associated w/ bt halos
350–378	DIOR	352.4 to 378m: DIOR - DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anh mafic phenos (hbl-px) in aph gmass. mod-str patchy ep alteration as fract halos assoc w/ pyrite (<1%). mod-str mag throughout. localized QSPC alteration @ 367.65-374m associated with faulted interval @ 369.7 - 370.2m -- faulted zone is semi-coherent with preserved UC ~5CA (see structure). weak pyite mineralization <1% finely disseminated pyrite grains.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
340–345	100	42.33	0.5	0							2	3	2	
	100	65.33												
	100	95												
	100	48												SZ
345–350	100	56.67	5	0	2		3				3	4		
	100	79.67												VN
350–378	101.33	73.33	0.5	0	3				3		2	2		
	100	80.33												
	91.33	64.33												
	100	92.67												
	100	50.33												
	101.33	63.67			3						2	4	2	FL
	99.33	55.67												
	100	70			3				3		2	2		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346544	338	340	0.013	0.2	122.7
3346545	340	342	0.031	0.1	114.2
3346546	342	344	0.015	0.2	114.1
3346547	344	346	0.016	0.2	112.4
3346548	346	347.56	0.016	0.3	209.2
3346549	347.56	350	0.022	0.3	195
3346551	350	352.4	0.044	0.5	357.1
3346552	352.4	354	0.009	0.4	306
3346553	354	356	0.032	0.4	367.7
3346554	356	358	0.013	0.3	234.3
3346555	358	360	0.036	0.3	219.4
3346556	360	362	0.021	0.2	175.5
3346557	362	364	0.023	0.5	369.2
3346558	364	366	0.01	0.1	88.6
3346559	366	367.65	0.011	0.2	190.7
3346561	367.65	369	0.028	0.4	321.7
3346562	369	371	0.039	0.05	40.9
3346563	371	372.5	0.011	0.1	68.1
3346564	372.5	374	0.008	0.1	105.2
3346565	374	376	0.057	0.3	263.4
3346566	376	378	0.018	0.3	310.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
339	106.8	-58.9	Reflex EZ-Trac
369	105.8	-59.3	Reflex EZ-Trac

Legend

Lith Code

- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- DIOR — Diorite

Structure Type

- SZ — Shear Zone
- VN — Vein
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

centerraGOLD

Lithology

Lith Code	Description
DIOR	352.4 to 378m: DIOR - DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anh mafic phenos (hbl-px) in aph gmass. mod-str patchy ep alteration as fract halos assoc w/ pyrite (<1%). mod-str mag throughout. localized QSPC alteration @ 367.65-374m associated with faulted interval @ 369.7 - 370.2m -- faulted zone is semi-coherent with preserved UC ~5CA (see structure). weak pyite mineralization <1% finely disseminated pyrite grains.
ANDS	378 to 393.82m: ANDS - KPOT altered fine to med grained andesitic volcanics. green-grey to patchy blackish-green. localized 2-3mm phenos completely carb replaced. interval is cross-cut by ~5% 0.5-3cm carb-chl+/-py veins running 30-50degrees to CA with mod-str biotite alteration halos. notable increase in pyrite mineralization associated w/ bt halos. str magnetic throughout.
DIOR	393.82 to 401.9m: DIOR - DIOR-1. UC 50CA. green-grey. med-grained pheno-crowded diorite. +50% anh 1-3mm mafics (hb-px?) in aph gmass. pervasive mod-str carb alteration. patchy wk ep alteration. strong mag throughout as ~1mm disseminations. patchy qz altaration locally masks texture. weakly sheared in localized intervals. weak pyrite min as vfg disseminations.
MZPP	401.9 to 411.46m: MZPP - UC 40CA light grey. fracture zone. mod-broken core with localized <10cm crackle cemented breccias: intensely fractured cemented by carb. med-grained fsp-phyric monzonite. 20-25% 1-3mm anh-subh fsp phenos in aph gmass. texture is slightly obscured by mod pervasive silica alteration. <5% ep alteration as partial repl of select phenos and as fract coating. raft of carb-altered tuff @ 409.70-410.43m (or calcareous tuff?). massive green tuff with carb-chl vlets. weak pyrite min as vfg disseminations and grains on fractures
APXT	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
DIOR	100	70	0.5	0	3				3		2	2	
ANDS	101.67	94.67											
	100	96.67											
	100	83.33	5	0	3		3				2	3	1
	100	67.33											
	101	49.33											
DIOR	100	98.33											
	100.67	100.67	0.5	0	3				3		2	4	2
	100	76.67											
MZPP	100	4											
	101	4	0.3	0	1				2			3	4
	60	16											
APXT	100	64.33	0.5	0	1				3		2	2	
	100.67	80											

Structure Type

Structure Type	Depth
VN	352.4 – 378
CN	393.82
FRZ	401.9 – 411.46

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346566	376	378	0.018	0.3	310.5
3346567	378	380	0.022	0.3	171.8
3346568	380	382	0.01	0.1	114.8
3346569	382	384	0.008	0.1	103.7
3346571	384	386	0.009	0.1	132.8
3346572	386	388	0.01	0.1	91.5
3346573	388	390	0.018	0.3	264.3
3346574	390	392	0.016	0.2	149.2
3346576	392	393.82	0.042	0.2	165.6
3346577	393.82	396	0.019	0.6	530.1
3346578	396	398	0.016	0.7	555.7
3346579	398	400	0.014	0.3	308.1
3346581	400	401.9	0.013	0.4	381.1
3346582	401.9	404	0.011	0.05	35.4
3346583	404	406	0.008	0.05	15.3
3346584	406	408	0.0025	0.05	11
3346585	408	409.7	0.005	0.05	12.3
3346586	409.7	410.43	0.006	0.1	111.7
3346587	410.43	411.46	0.007	0.05	39.3
3346588	411.46	413	0.008	0.1	85.5
3346589	413	414.5	0.008	0.2	151.7

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- VN — Vein
- CN — Contact
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Lithology

Depth	Lith Code	Description
415–425	APXT	411.46 to 426.17m: APXT - UC 70CA. coarse-grained andesitic pyroxene-hornblende-crystal-tuff. dark to patchy light green. 10-25% 3-10mm subh-euhedral px-hbl phenos in vfg ash tuff matrix. alteration transitions from OPRO (411.5-420m) to BT-KPOT (420-426.17m). <1% carb-chl vlets. fine-grained pyrite as weakly disseminated grains.
425–431	DIOR	426.17 to 431.08m: DIOR - DIOR-1. UC 40CA. light green with patches of blackish-green. med-grained pheno-crowded diorite. +50% anhedral mafics partialyl repl by chl. strong mag +5% as ~1mm disseminated grains throughout. pervasive(?) ep alteration crosscut by strong biotite alteration halos to carb-chl-ep veinlets and two larger (~2.5cm) carb-chl-ep veins @ 426.40m & 429.25m. <1% pyrite as finely disseminated grains.
431–435	MZPP	431.08 to 435m: MZPP - UC 50CA. grey-green with patchy pinkish tint. mod-broken core. hi-fractured with chl+/-carb fract cement. 20-25% 1-2mm anh-subh fsp phenos in aph gmass. pervasive mod silica alteration slightly obsucres texture. weak pyrite mineralization as finely disseminated grains. < 3% epidote as fracture fill.
435–437	DIOR	435 to 437.05m: DIOR - DIOR-1. UC 50CA. light green. med-grained pheno-crowded diorite. +50% anhedral mafics partialyl repl by chl. strong mag +5% as ~1mm disseminated grains throughout. pervasive ep. 2-4% carb-chl vlets and vns to 1cm. <1% pyrite as finely disseminated grains.
437–447	MZPP	437.05 to 447.54m: MZPP - UC 35CA. med-grained fsp-phyric monzonite. grey w/ patchy pinkish tint. ~20% 1-3m anh-subh fsp phenos in aphanitic silicified groundmass. mod fractured cemented by carb. <1% pyrite as finely disseminated grains. trace ep fract fill. @ 445.60-446.06m: raft of ep-chl altered andesite volcanics/andesitic tuff
447–448	APXT	447.54 to 448.57m: APXT - UC 40CA. medium to locally coarse-grained andesitic pyroxene-hornblende-crystal-tuff. dark green. 10-25% 3-10mm subh-euhedral px-hbl phenos in vfg ash tuff matrix. mafic phenos partially to completely replaced by biotite. <1% carb-chl vlets. fine-grained pyrite as weakly disseminated grains. mod-str mag throughout. <1% pyrite as sparsely disseminated grains
448–450	DIOR	448.57 to 453.05m: DIOR - UC 50CA. DIOR-1. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics (hbl-px?) in aphanitic groundmass. weak pyrite mineralization as finely disseminated grains. alteration OPRO 448.57-452m as wk-mod

Geotechnical / Mineralisation

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
415–420	100.67	80	0.5	0
420–425	100	76	0.5	0
425–430	100.67	99.67	0.5	0
430–435	100	100	0.5	0
435–440	100	90.33	0.5	0
440–445	100	48.33	0.5	0
445–450	99.33	11.67	0.5	0
450–453	100	99.33	0.5	0
453–457	100	57.33	0.5	0
457–460	100	25.33	0.5	0
460–463	100.67	76.33	0.5	0
463–466	101	58.33	0.5	0
466–469	100	64.67	0.5	0

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
415–420	1				3		2	2	
420–425	1		3				2	2	
425–430	3		3		3		2	2	
430–435					2		2	2	3
435–440	3				4		2	2	
440–445	2				1			2	4
445–450	3		3						
450–453	3				3		2	2	

Structure Type: VN (425.17–426.17m); VN (428–430m); FRZ (430.08–435m)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346589	413	414.5	0.008	0.2	151.7
3346591	414.5	416	0.0025	0.05	52.5
3346592	416	418	0.006	0.05	70.8
3346593	418	420	0.011	0.1	118.2
3346594	420	422	0.008	0.1	87.5
3346595	422	424	0.008	0.1	115.7
3346596	424	426.17	0.0025	0.05	57.6
3346597	426.17	428	0.012	0.4	440.4
3346598	428	430	0.007	0.2	194.2
3346599	430	431.08	0.007	0.1	132.2
3346601	431.08	433	0.006	0.05	13.8
3346602	433	435	0.0025	0.05	13.2
3346603	435	437.05	0.006	0.4	289.7
3346604	437.05	439	0.011	0.05	15.9
3346606	439	441	0.028	0.05	40.3
3346607	441	443.25	0.008	0.05	30.1
3346608	443.25	445.5	0.0025	0.05	9.1
3346609	445.5	447.54	0.192	0.5	80.4
3346611	447.54	448.57	0.103	0.6	237.7
3346612	448.57	450	0.006	0.2	132.9
3346613	450	452	0.0025	0.4	267.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
439	111	-59.1	Reflex EZ-Trac

Legend

Lith Code

- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- VN — Vein
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

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Lithology

Lith Code	Description
DIOR	448.57 to 453.05m: DIOR - UC 50CA. DIOR-1. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics (hbl-px?) in aphanitic groundmass. weak pyrite mineralization as finely disseminated grains. alteration OPRO 448.57-452m as wk-mod pervasive ep and strong mag dissem grains. alteration KPOT 452-453.05m as patchy biotite and bt repl of mafics w/ wk-mod mag.
MZPP	453.05 to 457.67m: MZPP - UC 20CA. light grey with greenish and pinkish tint. med-grained fsp-phryic monzonite. 15-20% 2-3mm anh fsp phenos in aphanitc silicified groundmass. patchy chl alt as wk fract halos. isolated bitotie alt as storng halo to crudely banded carb-chl vein @ 454.5m. trace ep alteration as wk fract halos. hi-fractured -- fracts cemented by carb+/-chl. <1% pyrite as finely disseminated grains. trace pinkish-qz veins upto 1cm @ 456.25 -- no associated increase in localized min or alteration halos.
ANDS	457.67 to 464.4m: ANDS - UC 30CA. dark green to black. fine to medium grained andesitic volcaics with localized crsytal tuff intervals < 30cm. subhedral hbl-px phenos 2-4mm replaced by carb and variable biotite. interval weakly chl altered with patches of strong biotite alteration halos to select carb-qz-py veining. generally weakly mineralized with localized strong disseminations within bt halos. mod-strong pervasive carb alteration. faulted @ 460.55 to 464.50m
MZPP	464.4 to 474.2m: MZPP - UC 20CA. mod-hi brk core. avg <5cm angular segments of core. light grey with greenish and pinkish tint. med-grained fsp-phryic monzonite. 15-20% 2-3mm anh fsp phenos in aphanitc silicified groundmass. patchy chl alt as wk fract halos. trace-wk ep alteration as wk fract halos. hi-fractured -- fracts cemented by carb+/-chl. <1% pyrite as finely disseminated grains. trace hematite noted along select fracts
DIOR	

Geotechnical / Mineralisation

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
	100	64.67	0.5	0
	100	36	0.2	0
	100	55		
	100.67	24.33	2	0
	100	3.67		
	100	0		
	100.67	3.67	0.5	0
	100.67	0		
	100.67	94	2	0
			0.5	0
	100	100		
	100	64	3	0
	100	97		
			0.5	0
	100.67	86		
	100	93.67		

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	3		2		3		2	2		
	2							2		
	1		2		1		2	2	4	
	2		3		1		2	4		FL
										FRZ
					1		1		4	
	3		3		2		1	2		
					3		2	2		
	3		2		2		2			VN
										VN
	3				3		2	1		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346613	450	452	0.0025	0.4	267.5
3346614	452	453.05	0.0025	0.3	205.4
3346615	453.05	455.3	0.0025	0.05	44.5
3346616	455.3	457.67	0.0025	0.05	25.5
3346617	457.67	460	0.0025	0.1	145.4
3346618	460	462	0.089	0.4	298.8
3346619	462	464.4	0.448	0.4	242.2
3346621	464.4	466	0.0025	0.05	16.3
3346622	466	468	0.0025	0.05	9.3
3346623	468	470	0.0025	0.05	17
3346624	470	472	0.0025	0.05	22.1
3346625	472	474.2	0.026	0.05	46.5
3346626	474.2	476	0.012	0.7	560.1
3346627	476	478	0.008	0.5	428.4
3346628	478	480	0.01	0.5	427.3
3346629	480	482	0.013	0.6	511.1
3346631	482	484	0.012	0.6	544.8
3346632	484	486	0.013	0.5	468.5
3346633	486	488	0.01	0.4	431.4
3346634	488	490	0.007	0.4	409.2

DH Survey

Depth (m)	Azimuth	Dip	Tool
459	105.9	-59.1	Reflex EZ-Trac
489	104.9	-59.3	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FL — Fault
- FRZ — Fracture Zone
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

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Lithology

Lith Code	Description
DIOR	474.2 to 514.55m: DIOR - UC 50CA. DIOR-1. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics (hbl-px?) in aphanitic groundmass. weak pyrite mineralization as finely disseminated grains. interval is mostly OPRO altered as pervasive mod epidote+/-chl and +5% magnetite disseminated grains -- overprinted by < 1m moderate to strong biotite-mag halos to sporadic crudely-banded carb-qz-chl+/-ep+/-py veins. pyrite mineralization mostly <1% disseminations with localized density increase within biotite halos to veins mentioned above. wk-mod patchy carb alteration. increased intensity of ep-carb & py veining @ 513-514m.
TUFF	514.55 to 515.75m: TUFF - UC 70CA. tuff(?) dark grey massive andesitic volcanics / pyroclastics. < 3% anh fsp phenos noted. strong carb alteration throughout. trace py mineralization as fine dissem grains. ~3% carb stringers.
DIOR	515.75 to 521.88m: DIOR - UC 40CA. DIOR-1. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics (hbl-px?) in aphanitic groundmass. weak pyrite mineralization as finely disseminated grains. interval is mostly OPRO altered as pervasive mod epidote+/-chl and +5% magnetite disseminated grains -- overprinted by < 1m moderate to strong biotite-mag halos to sporadic crudely-banded carb-qz-chl+/-ep+/-py veins. pyrite mineralization mostly <1% disseminations with localized density increase within biotite halos to veins mentioned above. wk-mod patchy carb alteration. trace cpy noted @ 520.56m as ~1cm clot in 2cm carb-chl-ep vein.
TUFF	521.88 to 523.4m: TUFF - UC 25CA. tuff(?) dark grey massive very fine andesitic volcanics / pyroclastics. < 2% anh fsp phenos noted. strong carb alteration throughout. <5% py mineralization as fine dissem grains. ~8% carb stringers and vlets. trace cpy found as ~5mm clot in ~1cm carb-chl vein @ 522.35m
DIOR	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
490	100	93.67	0.5	0	3		3		3		2	1	
			5	0	3		3				2	3	
	100	100	1	0	3		1		3		2	1	
495	100	92											
	100.67	98.33	4	0	3		3		1		1	3	
500	99.33	93.33											
	100	100	1	0	3			3	3		2	2	
505	100.67	87.67											
	100	95	5	0	3		3		3		2	2	
510	99	55	0.1	0							2	4	
515	101.67	101.67	0.5	0	3		1		3		2	2	
			3	0	3		3		3		2	2	
520	100	89	0.5	0	3		1		3		2	2	
			0.5	0.1									
	100	100	1	0.1	3		3				2	3	
525	100	82.67	1	0	3		1		3		2	2	

Structure Type

Depth	Structure Type
490	VN
495	VN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346634	488	490	0.007	0.4	409.2
3346635	490	492	0.014	0.6	433.3
3346636	492	494	0.006	0.3	209.2
3346637	494	496	0.011	0.4	404.7
3346638	496	498	0.011	0.4	428.9
3346639	498	499.42	0.006	0.1	105.1
3346641	499.42	501	0.005	0.05	67.1
3346642	501	503	0.011	0.2	110.8
3346643	503	505	0.008	0.1	52.5
3346644	505	507	0.0025	0.1	57.9
3346646	507	508.5	0.0025	0.1	82.8
3346647	508.5	510	0.006	0.2	115.5
3346648	510	512.24	0.008	0.5	422.9
3346649	512.24	514.55	0.012	0.8	684.9
3346651	514.55	515.75	0.006	0.05	52.8
3346652	515.75	517.7	0.008	0.4	349.6
3346653	517.7	518.7	0.01	0.3	268.2
3346654	518.7	520.5	0.01	0.5	544
3346655	520.5	521.88	0.007	0.8	667
3346656	521.88	523.4	0.027	0.2	115.1
3346657	523.4	525	0.019	0.4	399.2
3346658	525	527	0.039	0.4	405.9
3346659	527	529	0.018	0.2	169.3

DH Survey

Depth (m)	Azimuth	Dip	Tool
519	110.8	-59.6	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- TUFF — Tuff

Structure Type

- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	DIOR	523.4 to 557.85m: DIOR - UC 25CA. DIOR-1. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics (hbl-px?) in aphanitic groundmass. interval is mostly OPRO altered as pervasive mod epidote+/-chl -- overprinted by < 1m moderate to strong biotite-mag within shear zone @ 529-533m halos and halos to sporadic crudely-banded carb-qz-chl+/-ep+/-py veins. pyrite mineralization mostly <1% disseminations with localized density increase within biotite halos to veins mentioned above. mod carb alteration associated with biotite-mag alteration halos. generally mod-str magnetic with localized decrease of mag associated with biotite halos and proximal to carb-qz-chl+/-ep veins.	100	82.67	1	0	3		1		3		2	2		
530			100	97.33	5	0	3		3		2		2	3	1	SZ
			99.33	83.67												
535			100.67	68.33												
			100	100												
540			100	94.33	0.5	0	3		1		3		2	2	2	DYKE
545			100	100												
			100	99.33												
550			101	69												
			99.33	94.67	2	0	3		2		1		2	3		VN VN
555			100.67	93												
	DIOR	557.85 to 568.36m: DIOR - UC 30CA. DIOR-3? grey-green med-grained plag-phyric diorite. 15-25% 2-4mm subh plagioclase laths in aphanitic groundmass. generally weakly altered - ep as fracture halos, localized shear zone with strong carb-chl-ep veining @ 559.32- 561.70m with KPOT alteration halos as very fine bt-mg. pyrite mineralization avg 1-2% -- mostly <1% dissem grains but locally upto 10% in sheared/veined interval.	100	70.33	0.5	0	3				2		2	1		
560					2.5	0	3		3		2		2	3		SZ
			100	75.67	1	0	3				2		2	2		
			100.67	75.33												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3346659	527	529	0.018	0.2	169.3				
3346661	529	531	0.022	0.6	368.7				
3346662	531	533	0.007	0.2	171				
3346663	533	535	0.007	0.05	66.9				
3346664	535	537	0.008	0.05	58.4				
3346665	537	539	0.019	0.2	184.7				
3346666	539	541	0.021	0.3	207.8				
3346667	541	543	0.014	0.3	265				
3346668	543	545	0.015	0.5	475.6				
3346669	545	547.25	0.015	0.5	577.2				
3346671	547.25	549.5	0.019	0.3	301.9	549	111.8	-59.8	Reflex EZ-Trac
3346672	549.5	551.75	0.01	0.1	112.6				
3346673	551.75	554	0.013	0.1	103.1				
3346674	554	556	0.009	0.2	101.6				
3346675	556	557.85	0.036	0.05	34.9				
3346676	557.85	559.32	0.006	0.1	162.8				
3346677	559.32	561.7	0.022	0.1	91.5				
3346678	561.7	563.5	0.006	0.2	136.3				
3346679	563.5	565.33	0.006	0.1	133.9				

Legend

Lith Code

- DIOR — Diorite

Structure Type

- SZ — Shear Zone
- DYKE — Dykes (too small for lithology <0.5m wide)
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

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Lithology

Lith Code	Description
DIOR	557.85 to 568.36m: DIOR - UC 30CA. DIOR-3? grey-green med-grained plag-phyric diorite. 15-25% 2-4mm subh plagioclase laths in aphanitic groundmass. generally weakly altered - ep as fracture halos. localized shear zone with strong carb-chl-ep veining @ 559.32- 561.70m with KPOT alteration halos as very fine bt-mg. pyrite mineralization avg 1-2% -- mostly <1% dissem grains but locally upto 10% in sheared/veined interval.
DIOR	568.36 to 570.11m: DIOR - UC 25CA. DIOR-1? texture mostly obscured by mod-str shear. strong chlorite-carb alteration of host rock. shear foliation ~25CA. core is intact but very weak -- easily broken by hand. slight increase in py mineralization 2-3% as finely disseminated grains. localized fault breccia @ 569.4-570.11: matrix supported. 25-30% unsorted angular fragments of dior-1? in vfg milled rockflour-clay-carb matrix
DIOR	570.11 to 577.75m: DIOR - UC in brk-core. DIOR-1. grey-green. med-grained pheno-crowded diorite. +50% anh 2-4mm mafics in aphanitic groundmass. patchy ep alt as fracture halos. texture partially obscured by localized silica overprint. 1-2% chlorite-carb stringers. weak pyrite mineralization as finely disseminated grains.
MZPP	577.75 to 583.72m: MZPP - UC 40CA. pinkish-grey strongly silicified monzonite dyke. texturally obliterated - minimal 1-2mm anh fsp phenos. highly-fractured cemented by carb-sil. localized rubbly to gougey fault @ 578.65 - 580m with <20cm intervals of fault breccia: 10-20% poorly sorted 2-15mm subrounded silicified mzpp in fine-grained comminuted rockflour-clay-carb matrix. poorly mineralized - weakly disseminated fine-grained pyrite.
DIOR	583.72 to 595m: DIOR - UC 35CA. DIOR-1. mod to hi-brk core. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ strong magnetite disseminations (+5%). patchy moderate epidote alteration halos to fractures and ep-carb vlets. intermittent < 2m shear and fault zones. selective black bt-mg potassic alteration as halos to shear-associated carb-chl+/- pyrite veining which overprint pre-existing OPRO alt. pyrite mineralization generally weak (<1%) with localized potassic-alteration-associated increase upto 5% as disseminated grains. shear zones and fault zones @ 587.16-588.87m & 591.40-591.65 & 592.25-593.5m & 593.85-595m. moderate to strong clay alteration noted proximal to shears and faults -- intact but weak core easily broken by hand. minor rafts <50cm of aphanitic tuffs or andesite volcanics.
ANDS	595 to 596.88m: ANDS - UC 30CA. raft of ANDS(?) that accomodates faulting within DIOR-1 unit. interval contains mixed DIOR-1 and ANDS but is dominantly ANDS. grey-green fine-grained andesite volcanics / pyroclastics. strong perv carb and patchy sil alteration. hi-fractured with carb cement. 2-3% dissem pyrite. gougey 1-3cm fault runs along interval at 10-25 degrees to CA. dior-1 fragments in this interval subject to OPRO (ep-chl) alteration and mod mag.
DIOR	596.88 to 609.73m: DIOR - UC in broken core. DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ strong magnetite disseminations (+5%). patchy moderate to

Geotechnical / Mineralisation

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
557.85–568.36	100.67	75.33	1	0
568.36–570.11	100	71.67	2	0
570.11–577.75	100	19.33	0.5	0
577.75–583.72	100.67	51	2	0
583.72–595	99.33	47.67	2	0
595–596.88	100.67	22.33	3	0
596.88–609.73	100	55	2	0
	100	96.33		

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
557.85–568.36	3				2		2	2		
568.36–570.11					2		4	3		FL
570.11–577.75	3				3		2	2		
577.75–583.72	2				1		1	2	3	
583.72–595	3		3		3		2	2		
595–596.88	2				2		2	4	4	
596.88–609.73	3		2		3		2	2		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346679	563.5	565.33	0.006	0.1	133.9
3346681	565.33	567	0.006	0.1	127.9
3346682	567	568.36	0.026	0.2	145.4
3346683	568.36	570.11	0.011	0.2	129.6
3346684	570.11	572	0.007	0.2	136.4
3346686	572	574	0.0025	0.2	146.7
3346687	574	575.76	0.005	0.3	183.8
3346688	575.76	577.75	0.018	0.4	214.4
3346689	577.75	580	0.028	0.2	109.1
3346691	580	582	0.009	0.05	17.4
3346692	582	583.72	0.028	0.1	33
3346693	583.72	586	0.023	0.2	115.2
3346694	586	587.18	0.005	0.05	61.7
3346695	587.18	588.83	0.006	0.4	223.2
3346696	588.83	591	0.0025	0.05	24.4
3346697	591	593	0.0025	0.1	61.2
3346698	593	595	0.006	0.05	43.8
3346699	595	596.88	0.007	0.1	86.3
3346701	596.88	599	0.006	0.05	33.9
3346702	599	601	0.008	0.5	374.3
3346703	601	603	0.0025	0.1	75

DH Survey

Depth (m)	Azimuth	Dip	Tool
579	110.8	-60.1	Reflex EZ-Trac

Structure Type: FL = Fault; SZ = Shear Zone

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FL — Fault
- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Lithology

Lith Code	Description
DIOR	596.88 to 609.73m: DIOR - UC in broken core. DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ strong magnetite disseminations (+5%). patchy moderate to strong epidote alteration halos to fractures and ep-carb vlets. intermittent < 50cm selective black bt-mg potassic alteration halos to shear-associated carb-chl+/-py veining which overprint pre-existing OPRO alt. pyrite mineralization generally weak (< 2%) with localized potassic-alteration-associated increase upto 5% as disseminated grains. minor rafts < 20cm of aphanitic tuffs or andesite volcanics. localized fault breccia: 599.52-600m 20CA
ANDS	609.73 to 611.75m: ANDS - UC 40CA. dark grey green. fine-grained andesite volcanics. <5% anhedral 1-3 fsp phenos in aphanitic groundmass. moderate mag throughout. pervasive overprint of qz-carb. hi-fractured cemented by carb. wk pyrite min ~1% as fine-grained disseminations.
FALT	611.75 to 616.11m: FALT - protolith undetermined. faulted interval. mod-strongly sheared with locally fault brecciated interval. fault breccia @ 613.75-615.25m: transitions between clast supported and matrix supported. 20-50% 0.2 - 4cm angular to subangular clasts of hostrock in milled rock and clay matrix. rest of the interval is mod-strongly shear foliated. strong biotite-carb-chl-mag alteration throughout. 3-5% fine-grained pyrite as crudely banded disseminations along shear foliation.
DIOR	616.11 to 623.12m: DIOR - 20CA shear foliation. DIOR-1? texturally destroyed. texture only locally preserved @ 617-618m. strongly shear foliated interval. strong to intense bt-chl-mag alteration. carb-chl-py+/-ep+/-qz veining parallel to foliation. slight increase in py mineralization noted assoc w/ kpot alteration. QSPC overprint noted @620-623.12m
DIOR	623.12 to 647.25m: DIOR - DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ strong magnetite disseminations (+5%). patchy moderate epidote alteration halos to fractures and ep-carb vlets. intermittent 5-to-8 meter black bt-mg potassic alteration as halos to shear-associated carb-chl+/- pyrite veining which overprint pre-existing OPRO alt. pyrite mineralization generally weak (<1%) with localized potassic-alteration-associated increase upto 15% as disseminated grains. potassically altered zones @ 630-637m & 639-644m. fault @ 632.10-632.5m: intact gouge / clay altered host rock -- easily broken by hand.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	100	96.33												
	100	83.67												
605			2	0	3		2		3		2	2		
	100	38.33												
610	99.33	18.67	1	0	3							3	3	
	100	5.33	2	0	3		3				3	3		BZ
615														
	100.67	52.33	2	0	3		4				3	3		SZ
620	100	86												
	100	100	6	0	3		3					3	3	VN
625	100	100	1	0	3		2		3		2	2		
	100	100												
630	99.33	71	4	0	3		4		2		3	3		FL, VN
635	100.67	65												VN
	100.67	70.33	1	0	3		2		3		2	2		
	100	98.33	3	0	3		3		3		2	3		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346703	601	603	0.0025	0.1	75
3346704	603	605	0.007	0.5	114.5
3346705	605	607.45	0.0025	0.2	157.9
3346706	607.45	609.73	0.0025	0.3	158.7
3346707	609.73	611.75	0.007	0.1	130.9
3346708	611.75	614	0.018	0.4	188.1
3346709	614	616.11	0.073	0.2	64.7
3346711	616.11	618	0.0025	0.05	47.7
3346712	618	620	0.008	0.1	30.2
3346713	620	621.55	0.008	0.3	88.1
3346714	621.55	623.12	0.009	0.2	84.8
3346715	623.12	625	0.007	0.1	47
3346716	625	627	0.01	0.2	101.2
3346717	627	628.5	0.0025	0.05	38.3
3346718	628.5	630	0.0025	0.1	32.4
3346719	630	632	0.006	0.1	48.8
3346721	632	634	0.008	0.1	53.4
3346722	634	635.5	0.006	0.1	54.2
3346723	635.5	637	0.007	0.1	61.9
3346724	637	639	0.006	0.05	38
3346726	639	641	0.006	0.1	32.8

DH Survey

Depth (m)	Azimuth	Dip	Tool
609	113.6	-60.2	Reflex EZ-Trac
639	102.9	-60.3	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- FALT — Fault

Structure Type

- BZ — Fault Breccia
- SZ — Shear Zone
- VN — Vein
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

MOUNTMILLIGAN

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Lithology

Lith Code	Description
DIOR	623.12 to 647.25m: DIOR - DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ strong magnetite disseminations (+5%). patchy moderate epidote alteration halos to fractures and ep-carb vlets. intermittent 5-to-8 meter black bt-mg potassic alteration as halos to shear-associated carb-chl+/- pyrite veining which overprint pre-existing OPRO alt. pyrite mineralization generally weak (<1%) with localized potassic-alteration-associated increase upto 15% as disseminated grains. potassically altered zones @ 630-637m & 639-644m. fault @ 632.10-632.5m: intact gouge / clay altered host rock -- easily broken by hand.
FALT	647.25 to 653.9m: FALT - protlith ANDS(?) -- undeterminable. AVG SHEAR FOL 10-20degrees CA. varies from green to black. intensely sheared with localized mylonitic texture -- c&s fabric observable. strong bt-mg-chl-carb+/-qz alteration throughout with. core breaks into smooth undulated to planar fractures. localized fault breccias < 30cm: matrix supported breccia w/ 10-20% subrounded 0.2-1cm clasts of protolith & carb vein in matrix of comminuted rockflour-clay-carb.slight increase of pyrite mineralization as crude discontinuous disseminated bands along foliation planes.
ANDS	653.9 to 656.25m: ANDS - foliated andesitic dyke in intense shear zone @ 653.90-656.25m: strongly foliated but to a less degree compared to surrounding wall rock. foliation 10-20CA. texture is overprinted by shearing -- perv ep altered and trace py mineralized. mod mag throughout. shearing may indicate dyke and shear may be cogenetic?
ANDS	656.25 to 658.15m: ANDS - protlith ANDS(?) -- undeterminable. AVG SHEAR FOL 10-20degrees CA. varies from green to black. intensely sheared with localized mylonitic texture -- c&s fabric observable. strong bt-mg-chl-carb+/-qz alteration throughout. core breaks into smooth undulated to planar fractures. slight increase of pyrite mineralization as crude discontinuous disseminated bands along foliation planes. MZPP DYKE <1m @ 657-657.83: str silicified mzpp dyke. pinkihs-grey. texturally destroyed by intense silica alteration. hi-fractured with carb cement. ~2% vfg disseminated pyrite.
FALT	658.15 to 659.5m: ANDS - light-green. fine-grained andesitic volcanics. <5% anhedral 1-2mm mafics (hbl?) and ~10% ghosted ~1mm fsp phenos. texture obscured by strong pervasive ep alteration. chl fracture coating. trace py mineralizationn as sparse disseminations. strong mag throughout.
DIOR	659.5 to 663.35m: FALT - protlith ANDS(?) -- undeterminable. AVG SHEAR FOL 25degrees CA. varies from green to black. intensely sheared with localized mylonitic texture -- c&s fabric observable. strong bt-chl-carb+/-qz alteration throughout with. core breaks into smooth undulated to planar fractures. significant increase of pyrite mineralization as crude discontinuous disseminated bands along foliation planes. cross-cut by < 30cm andesitic dykelets @ 661m & 661.5m. weakly magnetic.
DIOR	663.35 to 686.7m: DIOR - UC 30CA. DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ mod-strong magnetite as disseminations (+5%). primary moderate epidote alteration as halos to fractures and ep-carb vlets with patches of wk-mod bt-mag alteration as halos to carb-chl+/-ep veinlets in low-vein-density intervals. interval has two zones (7-metres & 4-metres respectively) of localized vein-increase with extensive black bt-mg potassic alteration halos which overprint pre-existing pervasive OPRO alteration. pyrite mineralization generally weak (<1%) with localized potassic-alteration-associated increase upto 10% as disseminated grains.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0 100	0 100	0 10	0 5										
623.12–647.25	100	98.33	3	0	3		3		3		2	3		
647.25–653.9	100	65.33	0.5	0	3		1		3		2	2		SZ
653.9–656.25	98.33	66	3	0	3		4				2	3		SZ
656.25–658.15	100	26.67	0.1	0	2				3		2	2		DYKE
658.15–659.5	101	40	4	0	3		4		1		2	3		DYKE
659.5–663.35	98.67	35.33	2	0								2	5	DYKE
663.35–686.7	100	47	1	0	3		3				3	3		DYKE
			0.1	0					4		2			DYKE
663.35–686.7	100	25.67	5	0	1		3		2		2			
663.35–686.7	99.33	75	1	0	3		2		3		2	2		
663.35–686.7	100	65.33												
663.35–686.7	100	75	3	0	3		4		3		3	3		
663.35–686.7	100	94.33												
663.35–686.7	100.67	96.33	1	0	3		1		3		2	2		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346726	639	641	0.006	0.1	32.8
3346727	641	642.5	0.005	0.1	58.8
3346728	642.5	644	0.027	0.1	79
3346729	644	646	0.005	0.05	21.7
3346731	646	647.25	0.007	0.05	36.6
3346732	647.25	649	0.023	0.2	96.2
3346733	649	651	0.008	0.2	82.8
3346734	651	652.5	0.009	0.1	65.1
3346735	652.5	653.9	0.594	0.5	412.8
3346736	653.9	656.25	0.016	0.4	322.1
3346737	656.25	657	0.005	0.3	213.5
3346738	657	658.15	0.006	0.2	195.9
3346739	658.15	659.5	0.011	0.4	305.5
3346741	659.5	661.48	0.012	0.4	345.3
3346742	661.48	663.35	0.015	0.4	287.3
3346743	663.35	665	0.014	0.2	146.5
3346744	665	667	0.019	1	579.2
3346745	667	669	0.008	0.5	364.4
3346746	669	671	0.014	0.6	483.7
3346747	671	673	0.008	0.4	321.6
3346748	673	674.5	0.01	0.3	248
3346749	674.5	676	0.01	0.2	102.1
3346751	676	678	0.008	0.05	33.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
669	109.7	-60.2	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- FALT — Fault
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- SZ — Shear Zone
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose

Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
680	DIOR	663.35 to 686.7m: DIOR - UC 30CA. DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafic phenos in aphanitic groundmass w/ mod-strong magnetite as disseminations (+5%). primary moderate epidote alteration as halos to fractures and ep-carb vlets with patches of wk-mod bt-mag alteration as halos to carb-chl+/-ep veinlets in low-vein-density intervals. interval has two zones (7-metres & 4-metres respectively) of localized vein-increase with extensive black bt-mg potassic alteration halos which overprint pre-existing pervasive OPRO alteration. pyrite mineralization generally weak (<1%) with localized potassic-alteration-associated increase upto 10% as disseminated grains.	100.67	96.33	1	0	3		1		3		2	2		
			100	100												
			100	93	2	0	3		4		3		2	2		
685			99.33	91.33												
	ANDS	686.7 to 689.5m: ANDS - protolith undetermined. ANDS?. black. texturally destroyed. strongly veined ~20% stockwork strgrs and vlets of ep-carb. pervasive bt-mag alteration. weak pyrite mineralization <2% as vfg disseminations	100	55	0.5	0	3		3		4			2		
690																
	DIOR	689.5 to 697.25m: DIOR - UC in brk-core. DIOR-1. dark and light green. med-grained pheno-crowded diorite. +50% 2-4mm anhedral mafics (hbl-px?) in aphanitic groundmass. weak pyrite mineralization as finely disseminated grains and grain aggregates. interval is mostly OPRO altered as patchy mod epidote+/-chl and +5% magnetite disseminated grains -- overprinted by patchy biotite-mag halos to sporadic crudely-banded carb-qz-chl+/-ep+/-py veins. pyrite mineralization mostly <1% disseminations with localized density increase within biotite halos to veins. moderately sheared at bottom half of interval as influence of underlying fault/shear zone ~20CA.	100	62.33	3	0	3		2		3		2	2		
695			98.67	80.67												
	FALT	697.25 to 702.75m: FALT - mylonitic shear zone. protolith undetermined but probably DIOR-1? -- ~1m interval 98-99m where diorite texture is preserved. most of unit is texturally obliterated by shearing. shear foliation angle ranges from 10-20 degrees to core angle -- crenulation cleavages are observable. fold axes noted on ~698m: semi-parallel to core axis. strong bt-chl-carb-mag alteration throughout. localized fault breccia @ 699.27-700m: very poorly sorted 0.5-3cm angular clasts (~90% vein clasts / ~10% wallrock clasts) in comminuted rockflour-bt-chl-mag matrix. fine-grained pyrite dissem 5-10%. core intact but very weak -- easily breaks into smooth undulated planes by hand.	100	75.33	7	0	4		4				3	3		SZ
700			100	13.33												
	ANDS	702.75 to 718.5m: ANDS - dark green to black. fine-grained to locally med-grained andesitic volcanics. patchy qspc alt overprint proximal to overlying fault zone. texture is masked by mod-str bt-chl-mag alteration. 1-2mm anh plag(?) phenos locally observable -- unit is generally homogenous fine-grained volcanics. average 1-3% pyrite as finely disseminated grains with localized increase upto 7-8% as crude bands to carb-qz-chl veining. isolated pink-qz vein @ 715.65m w/ chl-py-carb halo.	100	82.33	2	0	3		3				2	2	2	
705			100	100												
710			99	92			3		3		2		2	2		
			100	100												
715			100	100												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346751	676	678	0.008	0.05	33.5
3346752	678	680	0.01	0.05	21.4
3346753	680	682	0.0025	0.05	8.4
3346754	682	684	0.009	0.1	61.6
3346755	684	685.35	0.008	0.05	52.7
3346756	685.35	686.7	0.0025	0.05	5.6
3346757	686.7	688	0.006	0.1	97.8
3346758	688	689.5	0.0025	0.2	186.6
3346759	689.5	691	0.011	0.4	304.2
3346761	691	693	0.007	0.3	342
3346762	693	695	0.006	0.4	395.1
3346763	695	697.25	0.007	0.3	164.8
3346764	697.25	699	0.009	0.05	43.9
3346766	699	701	0.037	0.2	46.6
3346767	701	702.75	0.017	0.2	126.7
3346768	702.75	705	0.017	0.2	145.7
3346769	705	707	0.0025	0.1	131
3346771	707	709	0.055	0.2	126.2
3346772	709	711	0.005	0.2	130.6
3346773	711	713	0.007	0.2	150.7
3346774	713	715	0.0025	0.2	122.7
3346775	715	717	0.006	0.2	97.9

Depth (m)	Azimuth	Dip	Tool
699	110	-60.4	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- FALT — Fault

Structure Type

- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-027	Max	744	12-Jun-2020	19-Jun-2020	432509.165	6086778.719	1312.283	94.4	-57.8	NQ	John Tejada	

Purpose
Porphyry Target A - targeting down-dip extension of potassic zone intersected in MAX20-023 at ~450m, expected at a moderate resistvity gradient underlying a resitvity high from 525 m to EOH. Inferred fault at ~230 m; Geophysics Line 6800N, Nosyrev target M7

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	ANDS	702.75 to 718.5m: ANDS - dark green to black. fine-grained to locally med-grained andesitic volcanics. patchy qspc alt overprint proximal to overlying fault zone. texture is masked by mod-str bt-chl-mag alteration. 1-2mm anh plag(?) phenos locally observable -- unit is generally homogenous fine-grained volcanics. average 1-3% pyrite as finely disseminated grains with localized increase upto 7-8% as crude bands to carb-qz-chl veining. isolated pink-qz vein @ 715.65m w/ chl-py-carb halo.	100	100	2	0	3		3		2		2	2		VN
			100	97.67												
720			100	100												
			100	96.67												
725			100	94												
730	ANDS	718.5 to 744m: ANDS - fine-grained andesite volcanics. med-green with patchy blackish-green. homogenous fine-grained andesite. +5% mag as 2-4mm disseminated grains. patchy ep-carb splotches. trace to weak biotite alteration halos to select carb-chl+/-ep veins. 1-2% carb-chl+/-ep strgrs and velts. weak pyrite mineralization ~1% as vfg disseminations.	99.33	98.67	1	0	3		1		3		2	2		
			101	101												
735			99	99												
			100	97												
740			100	100												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3346775	715	717	0.006	0.2	97.9
3346776	717	718.5	0.0025	0.05	25.5
3346777	718.5	720	0.0025	0.05	14.1
3346778	720	722	0.0025	0.05	10.3
3346779	722	724	0.0025	0.05	15.7
3346781	724	726	0.0025	0.05	14.8
3346783	726	728	0.0025	0.05	23.4
3346784	728	730	0.0025	0.05	17.5
3346785	730	732	0.006	0.1	85.7
3346786	732	734	0.0025	0.05	17.7
3346787	734	736	0.0025	0.05	37.1
3346788	736	738	0.0025	0.1	71.6
3346789	738	740	0.007	0.05	16.7
3346791	740	742	0.0025	0.05	28.9
3346792	742	744	0.0025	0.05	16.7

DH Survey: Depth (m), Azimuth, Dip, Tool

Legend

Lith Code

ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Lith Code	Description
CASE	0 to 2.2m: CASE - Cased to 2m. 20cm of overburden rubble.
ANTF	2.2 to 22.96m: ANTF - Pale grey aphanitic andesite tuff. Rubble zone up to 8.95m, heavily oxidized on frac surfaces and through fracs and veinlets in groundmass. Less frac'd after rubble zone but still patches of intense oxidation. Diorite inclusion at 12.9-13.04m with ep alt, ep veinlets extend into andesite. At around 14.85m to lower contact, occasional inclusions of diorite up to 15cm wide; ep increases slightly in andesite. Rubble increases again around 17.5m and continues to around 22.75m; oxidation is more patchy but still intense.
DIOR	22.96 to 23.81m: DIOR - Grey green diorite. Weak propylitic alt. Strong mg. Pyrox and hbl are partially alt by cl and are obscured by patchy ep alt. Ep is interstitial between mafics rather than larger patches. Minor oxidation on fracs. Sharp upper contact with andesite, lower contact is within fracs.
APXT	23.81 to 26.6m: APXT - Grey fine grained andesite crystal tuff. Phenos are mm size and appear to consist mainly of plag and pyrox. Alt a mix of cl and cy, very soft. Still oxidized on fracs. High angle fracs; rubble zone around 25.4-25.9m. Fracs at 26.3m followed by cy rich pebbly gouge at contact.
DIOR	26.6 to 29.1m: DIOR - Green grey diorite simliar to above. Stronger patches of ep. Strong mg. 4cm xenolith of andesite. Increase in cy around 27.5m, weak gouge. Frac'd unclear contact.
APXT	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
2.2–5	88.89	11.11											
5–7.5	91.67	11.67											
7.5–10	82.67	23.33											
10–12.5	98.67	98.67	0.5	0					1		1		
12.5–15	100.33	61.33											
15–17.5	100	34.67											
17.5–20	99.33	29.67											
20–22.96	96.67	31	0.2	0	2			1	2		1		
22.96–25	96.33	33.67	0.1	0	1						1		
25–26.6			0.1	0	2			1	2				
26.6–30	100.33	23.33	3	0				1	2		1		1
30–33.5	96.67	24.33											
33.5–35	101.33	54.67											
35–37	101.33	74											

Structure Type: FRZ (2.2–4.5); FRZ (17.5–22.96); FL (26.6–28)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486025	2.2	4	0.012	0.2	92.3
3486026	4	6	0.009	0.2	104.1
3486027	6	8	0.009	0.2	120.6
3486028	8	10	0.013	0.2	162.2
3486029	10	12	0.015	0.2	148.7
3486031	12	14	0.017	0.2	168.5
3486032	14	16	0.02	0.2	171.1
3486033	16	18	0.028	0.2	162.4
3486034	18	20	0.036	0.2	115.7
3486036	20	21	0.033	0.2	210.4
3486037	21	22.96	0.031	0.3	278.8
3486038	22.96	23.81	0.011	0.4	277.4
3486039	23.81	25	0.01	0.05	53.3
3486041	25	26.6	0.006	0.05	104.7
3486042	26.6	28	0.005	0.2	171.3
3486043	28	29.1	0.0025	0.2	202.2
3486044	29.1	31	0.009	0.1	126.4
3486045	31	33	0.008	0.2	218.1
3486046	33	35	0.009	0.1	106.6
3486047	35	37	0.013	0.2	105.7
3486048	37	39	0.013	0.3	275.4

DH Survey

Depth (m)	Azimuth	Dip	Tool
13	89.6	-53.1	Reflex EZ-Trac
17	88.8	-47.4	Reflex EZ-Trac

Legend

Lith Code

- Field style
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff
- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FRZ — Fracture Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
40	APXT	29.1 to 52.9m: APXT - Mixing zone of andesite and diorite. Driling down contact with diorite and east dipping andesite. Frac'd and oxidized up to 35.96m. At 34.15-34.58m less alt crystal tuff with mm size pyrox and pale green cl alt plag. Followed by weakly silicified fine grained andesite. Starting around 37.5m becomes more intermixed with diorite. Undulating contact along core axis at 37.7-38.2m; followed by more patchy inclusions of diorite, some strongly ab alt. Some inclusions are rounded and lapilli like and others don't have clear contacts. Dyke with 5mm crowded plag laths, for 8cm at 46.35m, clast of same composition at 40.8m. Weak silicification has overprinted any mg; ep crosses through both andesite and diorite. At 50.85-52.9m increase in fracs, weakly faulted and oxidized on frac surfaces. Ep alt increases after fault zone. Looks to be more diorite dominant after fault.	101.33	74	3	0				1	2		1		1	
45			99	79												
			102.67	85												
			99.67	76												
50			100	47.67												FRZ
55	DIOR		99.67	45.67	4	0	1			1	2		1			
			100.33	69												
60			98.67	65.33												
			100	76.67												
65			98.67	43.67												
			97.33	27.67												
70			100.67	60												
75			100.33	59												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486048	37	39	0.013	0.3	275.4	43	92.2	-53.1	Reflex EZ-Trac
3486049	39	41	0.013	0.4	335				
3486051	41	43	0.015	0.2	170.6				
3486052	43	45	0.013	0.2	124.4				
3486053	45	47	0.019	0.1	59.1				
3486054	47	49	0.012	0.1	39.7				
3486055	49	51	0.013	0.05	73.8				
3486056	51	52.9	0.042	0.2	91.5				
3486057	52.9	54.5	0.013	0.3	275.3				
3486058	54.5	56	0.023	0.4	469.5				
3486059	56	58	0.01	0.4	439.5				
3486061	58	60	0.012	0.4	419				
3486062	60	62	0.01	0.3	289.3				
3486063	62	64	0.01	0.2	257.8				
3486064	64	66	0.013	0.3	322.4				
3486065	66	68	0.007	0.1	107.3				
3486066	68	70	0.008	0.2	167				
3486067	70	72	0.008	0.2	170.6				
3486068	72	74	0.013	0.3	289.4	73	94.2	-53	Reflex EZ-Trac
3486069	74	76	0.013	0.4	449.1				

Legend

Lith Code

APXT
Andesitic Volcanic Rocks: Px andesite crystal tuff

DIOR
Diorite

Structure Type

FRZ
Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Depth	Lith Code	Description	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
80	DIOR	52.9 to 124.4m: DIOR - Mixing zone of andesite and diorite. More diorite dominant than previous unit. Ep increases after oxidized frac zone at contact. At 65.66-66m weak shear with increase in ca/ep veining and increase in py with veins. Around 70.3-72m diorite is brecciated with clasts of andesite. At 84.47-84.6m, clearer contact between an andesite dyke and diorite with increased ep immediately downhole. Around 86m, sigmoidal blk cl veins that avg 3mm wide. At around 89m becomes more rich for 35cm, possible dyke, contacts are not clear; followed by strong ep alt and cl stringers into frac'd weakly sheared zone at 89.5m. Frac'd until 90.16m, into a weak, slightly sheared diorite breccia with clasts of andesite; matrix of breccia is ep rich diorite; weak silica. At 92.4m, 40cm of clearly defined crystal tuff before transitioning back into a breccia as above. Py more abundant in breccia, in both diorite and andesite. Around 97m still in breccia. becomes more vuggy and pitted. At 104.30m, 10cm of cy gouge; followed by more breccia as above. Frac zone aroun 111.4m and sandy cy gouge at 115-115.4m very rich in py. Rubble and cl/cy gouge at 119.05m, for 60cm and 120.4m, for 20cm. Contact with andesite.	100.33	59	4	0	1			1	2		1			
			100	84.67												
			99	80												
			100.33	70.67												
85			100.33	100.33												
90			96.67	45.33												FRZ
			96.67	49.67												
95			99.33	93.33												
			99.67	48.67												
100			99.67	66.67												
105			96.67	33.33												FL
			99	50												
110			96.33	68.33												FRZ
			98.33	66.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486069	74	76	0.013	0.4	449.1
3486071	76	78	0.011	0.5	525.4
3486072	78	80	0.014	0.5	446.9
3486073	80	82	0.01	0.4	357.6
3486074	82	84	0.01	0.5	543.7
3486076	84	86	0.06	0.4	351
3486077	86	88	0.021	0.4	385.3
3486078	88	90	0.021	0.3	292.6
3486079	90	92	0.009	0.3	255.5
3486081	92	94	0.01	0.2	215.8
3486082	94	96	0.009	0.3	244.9
3486083	96	98	0.008	0.3	226.1
3486084	98	100	0.013	0.3	218.3
3486085	100	102	0.007	0.3	281.2
3486086	102	104	0.013	0.3	291.2
3486087	104	106	0.009	0.2	222.5
3486088	106	108	0.014	0.4	345.8
3486089	108	110	0.009	0.2	212.2
3486091	110	112	0.014	0.2	169.8
3486092	112	114	0.008	0.2	159.1

Depth (m)	Azimuth	Dip	Tool
81.8	99.3	-52.5	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Lith Code	Description
DIOR	52.9 to 124.4m: DIOR - Mixing zone of andesite and diorite. More diorite dominant than previous unit. Ep increases after oxidized frac zone at contact. At 65.66-66m weak shear with increase in ca/ep veining and increase in py with veins. Around 70.3-72m diorite is brecciated with clasts of andesite. At 84.47-84.6m, clearer contact between an andesite dyke and diorite with increased ep immediately downhole. Around 86m, sigmoidal blk cl veins that avg 3mm wide. At around 89m becomes more rich for 35cm, possible dyke, contacts are not clear; followed by strong ep alt and cl stringers into frac'd weakly sheared zone at 89.5m. Frac'd until 90.16m, into a weak, slightly sheared diorite breccia with clasts of andesite; matrix of breccia is ep rich diorite; weak silica. At 92.4m, 40cm of clearly defined crystal tuff before transitioning back into a breccia as above. Py more abundant in breccia, in both diorite and andesite. Around 97m still in breccia. becomes more vuggy and pitted. At 104.30m, 10cm of cy gouge; followed by more breccia as above. Frac zone aroun 111.4m and sandy cy gouge at 115-115.4m very rich in py. Rubble and cl/cy gouge at 119.05m, for 60cm and 120.4m, for 20cm. Contact with andesite.
APXT	124.4 to 160.1m: APXT - Sharp contact into fine grained crystal tuff. Still a mixed zone of diorite and andesite, more dominantly andesite; brecciated with andesite as the host rock and clasts of diorite, drilling along contact?. At 124.5m, 1cm pinkish qz vein with 5mm ca envelope on either side. White qz veins, 2cm thick at 124.82m marking a silicified fault zone up to 125.3m; andesite with a 5mm, branching out dark pink Kpot vein; specks of sp. At 125.3m silca is lost and becomes weakly brecciated with cy/ca matrix; pitted from eroded out ca; rich in py. Ep alt weak in andesite and diorite inclusions; ab restricted to diorite. From 141-143.8m fault zone with approx 6% py within a ca shear zone; 1cm pinkish E vein at 142.8m. Increaese in silica flooding after 143.8m. Weak faulting from 155.28-158.2m with ca veining with increased ep and py associated with veins. Sharp lower contact.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
115	98.33	66.67	4	0	1			1	2		1		
	96.67	45											
120	100.33	39.33											
	98.33	48.33											
125	96	66				1				2		2	3
	99.67	45											
130	98.67	15	2	0									
135	101.33	25.67											
	93.33	32			1			1	2				1
140	100	14.33											
	99	35.67	6	0									
145	100.67	52	3	0									
150	100.33	40.67											

Structure Type

Depth	Structure Type
115–120	FL
125–130	FL
140–145	FL

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486092	112	114	0.008	0.2	159.1
3486093	114	116	0.012	0.5	394.8
3486094	116	118	0.005	0.3	264.2
3486095	118	120	0.012	0.2	187.4
3486096	120	122	0.017	0.4	337.4
3486097	122	123	0.009	0.2	138.4
3486098	123	124.4	0.014	0.2	119.9
3486099	124.4	125.3	0.016	0.3	185.4
3486101	125.3	126.75	0.021	0.3	184.8
3486102	126.75	128	0.007	0.1	88.1
3486103	128	130	0.007	0.2	166.4
3486104	130	132	0.01	0.2	172.1
3486105	132	134	0.01	0.2	203.2
3486106	134	136	0.007	0.2	192.3
3486107	136	138	0.006	0.2	134.1
3486108	138	140	0.016	0.3	365.7
3486109	140	141	0.019	0.4	375
3486111	141	142.5	0.019	0.3	382.6
3486112	142.5	143.86	0.02	0.3	192.6
3486113	143.86	145	0.02	0.2	159.9
3486114	145	147	0.018	0.1	112.8
3486116	147	149	0.019	0.3	258.1
3486117	149	151	0.021	0.4	449.8

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Lith Code	Description
APXT	124.4 to 160.1m: APXT - Sharp contact into fine grained crystal tuff. Still a mixed zone of diorite and andesite, more dominantly andesite; brecciated with andesite as the host rock and clasts of diorite, drilling along contact?. At 124.5m, 1cm pinkish qz vein with 5mm ca envelope on either side. White qz veins, 2cm thick at 124.82m marking a silicified fault zone up to 125.3m; andesite with a 5mm, branching out dark pink Kpot vein; specks of sp. At 125.3m silca is lost and becomes weakly brecciated with cy/ca matrix; pitted from eroded out ca; rich in py. Ep alt weak in andesite and diorite inclusions; ab restricted to diorite. From 141-143.8m fault zone with approx 6% py within a ca shear zone; 1cm pinkish E vein at 142.8m. Increaese in silica flooding after 143.8m. Weak faulting from 155.28-158.2m with ca veining with increased ep and py associated with veins. Sharp lower contact.
DIOR	160.1 to 166.8m: DIOR - Grey green fine grained diorite. 20% mm size plag; diss secondary mg. Mainly cl alt with weak ep. From 164.6m to contact weak silica overprint with se, tr ca; weak breccia with andesite clasts, patchy ep and slight pink Kspar tint.
APXT	166.8 to 170.2m: APXT - Grey andesite crystal tuff. 15% pyrox and aug, 1mm avg. Mottled alt around phenos, cl/se? giving a 'psuedo lapilli' appearance. From around 168.4m, diorite inclusions rich in ep. Tuff is not magnetic, strong mg in diorite inclusions.
ANTF	170.2 to 175.15m: ANTF - Grey fine grained andesite tuff. 5% visible pyrox and aug, very small. Weakly silicified; tr patchy mg. From 172.1m, pitted texture followed by rubble zone and fracs to 173.3m. At 173.65m cl/ca vein with rock flour cement and 2mm ca crystals on fracs. Around 174m, diorite inclusions marked by larger mafics and strong ep alt. Weak faulting around 174.5m with fracs and minor cl/cy gouge. From 174.8m weakly silicified fine grained with wispy ep alt to contact.
DIOR	175.15 to 189.09m: DIOR - Grey green finer grained diorite. Crowded plag, approx 20% tr mg patchy. Ep is patchy, some as replacement. From 181.65-183.45m, qz flooded with blebs of strong mg; appears to be weakly brecciated texture is obscured. After QSPC alt back to diorite with slightly coarser grains with plag up to 3mm; mg increases to weak and pervasive. At 188.8m increased patches of ep and glassy silca flooding to contact.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0 100	0 100	0 10	0 5										
155	100.33	40.67	3	0	1			1	2				1	FL
	97.33	50.33												
	97.67	61.67												
	102	35.67												
160	99.67	92.33	0.3	0	2				1		2			
	99	62.33												
165	97.33	64	2	0					1	2			1	
	99	53	1	0	1				2	1	2			
170	95.67	29	0.2	0	1				1		2			FRZ, FL
175	100.33	46.33							3		2			
	99.33	72.33												
180	102	54.33	0.4	0	1				2		1		3	
185	98.33	81.33			1				2					
	100	73												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486117	149	151	0.021	0.4	449.8
3486118	151	153	0.02	0.2	187.5
3486119	153	155	0.012	0.1	118.4
3486121	155	157	0.036	0.6	384.1
3486122	157	159	0.02	0.2	151.6
3486123	159	160.1	0.036	0.2	97.8
3486124	160.1	162	0.007	0.1	122.3
3486125	162	163	0.028	0.3	77
3486126	163	164.6	0.006	0.2	118.6
3486127	164.6	165.5	0.036	0.2	83.7
3486128	165.5	166.8	0.013	0.2	156.3
3486129	166.8	168.5	0.011	0.2	155.7
3486131	168.5	170.2	0.049	0.4	391.2
3486132	170.2	172	0.014	0.3	238.1
3486133	172	174	0.011	0.1	149.4
3486134	174	175.15	0.009	0.05	62.2
3486135	175.15	177	0.007	0.1	129.8
3486136	177	179	0.018	0.2	130.1
3486137	179	180	0.006	0.1	129.3
3486138	180	181.65	0.007	0.1	82.9
3486139	181.65	183.45	0.025	0.1	100.9
3486141	183.45	185.1	0.009	0.1	135
3486142	185.1	187.1	0.008	0.1	133.1
3486143	187.1	189.09	0.01	0.1	143.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
163	99.3	-52.5	Reflex EZ-Trac

Legend

Lith Code

- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- DIOR — Diorite
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff

Structure Type

- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Lith Code	Description
DIOR	175.15 to 189.09m: DIOR - Grey green finer grained diorite. Crowded plag, approx 20% tr mg patchy. Ep is patchy, some as replacement. From 181.65-183.45m, qz flooded with blebs of strong mg; appears to be weakly brecciated texture is obscured. After QSPC alt back to diorite with slightly coarser grains with plag up to 3mm; mg increases to weak and pervasive. At 188.8m increased patches of ep and glassy silca flooding to contact.
DIOR	189.09 to 211.6m: DIOR - Grey green medium grained and finer grained diorite similar to above. Sharp contact into medium grained diorite. weakly alt with patches of ep, tr mg. At around 191.75m faulted/bleached with cl/cy and se alt; patchy bright green cl. Around 194.15m gradual transition to finer grained diorite; increased py from around 192.3m; sheared ca/ep veins at 196-196.25m. After shear full transition into fine grained diorite as in 160.1-166.8m. Between 198m and 200m black cl veining up to 5mm, some associated with qz/ca veins. Sheared veins at 209.8m, minor qz with ca and ep and py. From around 210m brecciated with diorite as host and clasts of andesite.
DIOR	211.6 to 217.3m: DIOR - White, grey fairly unaltered diorite; very minor cl replcement and tr ep. Not magnetic. Indicates that the mg comes in later with the propylitic alt. Around 215m transitioning to a more cl rich zone; weak brecciation with occasional andesite clasts, tr mg in more alt section. Silcified contact into breccia zone. Py increases close to contact.
HYBX	217.3 to 221.4m: HYBX - Andesite clasts in rock flour/gouge cement. Pitted where ca may have eroded out. Silicified at contact to 217.7m; patchy silica alt throughout. Simliar to diorite hosted breccia as seen up hole but has been reworked and any remnant diorite has been mostly destroyed, minor sections still have some diorite texture preserved; mg has also been preserved through alt.
DIOR	221.4 to 221.95m: DIOR - Diorite dyke with strong KPOT alt, protolith texture is obscured. Black cl/bi/mg section with abundant py. Sharp contacts with diorite, with silicification at each contact. Probably a late dyke, different phase of alt fluid which concentrated within the dyke, or alt from a nearby vein not seen in core.
DIOR	221.95 to 225.85m: DIOR - Green/grey medium grained diorite. Still have weak breccia texture as above but not pervasive and only in silicified sections at contact to 223m and from 223.55-22m. At 223m propylitic alt diorite with ep more interstial than patchy; cl alt mafics; strong mg. At 225m, compression fault zone with cl and cy infill, 15cm of brecciation with cl/ca/cy cement at 225.4m; subangular clasts of andesite. Gouged
ANTF	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	100	73	0.4	0	1				2					
	96.67	55.67												FL
	101.67	43												
	96.33	85.33												
	103.33	87.67	0.5	0	1				2		2		1	
	94	81.67												
	100	92												
	99.33	75												
	98.33	63.67												
	100	38.67	0.5	0					1		1			
	99.33	64.67	3	0	1				1				2	
	98.67	46.33	8	0	2		1				2			
	100.33	74.67	1	0	1			1	2		2			
			0.2	0	1						2	1		

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486143	187.1	189.09	0.01	0.1	143.5
3486144	189.09	191	0.011	0.05	46.7
3486145	191	193	0.011	0.1	106
3486146	193	195	0.012	0.05	82.9
3486147	195	197	0.011	0.1	114.7
3486148	197	199	0.007	0.05	99.6
3486149	199	201	0.007	0.05	106.2
3486151	201	203	0.007	0.1	120.5
3486152	203	205	0.006	0.05	101.1
3486153	205	207	0.006	0.2	143.4
3486154	207	209	0.012	0.1	152.4
3486156	209	210	0.01	0.05	69.3
3486157	210	211.6	0.011	0.05	29.4
3486158	211.6	213.5	0.01	0.05	44.9
3486159	213.5	215.5	0.007	0.05	68.4
3486161	215.5	217.3	0.013	0.1	125.8
3486162	217.3	219	0.016	0.1	72.4
3486163	219	220.35	0.009	0.1	56.7
3486164	220.35	221.4	0.012	0.1	103.6
3486165	221.4	221.95	0.021	0.3	248.2
3486166	221.95	223	0.017	0.2	150.4
3486167	223	224	0.008	0.1	106.5
3486168	224	225.85	0.013	0.1	134
3486169	225.85	227	0.009	0.1	113.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
193	100.5	-52.4	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- HYBX — MBX and SS Stocks: Hydrothermal breccia
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Lith Code	Description
ANTF	225.85 to 234m: ANTF - Fine grained intermediate andesite dyke. Weakly cl alt with consistent ca veinlets. Mottled ca alt of phenos, with no remnant texture. At 229-229.6m, increased cl alt along core axis. At 233m a few mafic phenos visible, unalt by ca. Compressed paler green cl rich contact for last 3cm.
DIOR	234 to 238.2m: DIOR - Finer grained diorite. 15% plag and 5% mafics. Patchy ep alt, consistent secondary mg. Sharp contact with andesite.
APXT	238.2 to 239.9m: APXT - Grey fine grained andesite crystal tuff. Pheno's, mm size, alt by ca and minor ep. 15cm section with pitted ca veinlets and blk cl veinlets. Sharp upper contact with diorite, lower contact obscured by patchy ep.
DIOR	239.9 to 246.77m: DIOR - Medium grained crowded diorite. Patchy ep, protolith texture is clearly visible. Crowded plag, 20% and 5% mafics in a grey groundmass. Tr interstitial ep alt, as well as patchy. At around 246m, 30cm cl/bi alt zone, could possibly be some andesite intermixed but no clear contacts. At 246.55m frac'd contact with minor bladed ca crystals.
DIOR	246.77 to 255.25m: DIOR - Green medium grained ab/ep alt diorite. Pervasive ep and weak ab, spotted alt obscures protolith texture. Cl phenos replacement, and secondary mg diss and replacement. Ep also veined and minor blk cl veining at 251.35m. Sharp contacts with andesite.
APXT	255.25 to 257.8m: APXT - Dark grey andesite crystal tuff dyke. Perasive cl alt with phenos that have been alt to ca and cl; strong mg. Sharp contacts with diorite. From 256.62-257.15m green diorite as above, strong contacts with patchy ep and ca veining. At 257.15m back to andesite, phenos mm size and less alt.
DIOR	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0 100	0 100	0 10	0 5										
	100.33	74.67												
	97.33	78.33												
230	99.67	86.33	0.2	0	1						2	1		
	103.67	76.67												
235	99.33	74.67	0.2	0	1				2		1			
	99	46.67	0.1	0					1		1	1		
240	99	72.33	0.2	0	1		1		2		1			
245	100.33	58.33												
	99.67	80.33												
250	98.67	94.67	0.5	0	2			1	2		1			
	100.33	98.67												
255			0.2	0	1		1				2	1		
			0.4	0	1			1	2					
	100	100	0.2	0	1						2	1		
260	99	98	0.5	0	2		1	1	2		2			
	97.67	93.33												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486169	225.85	227	0.009	0.1	113.6
3486171	227	229	0.0025	0.05	62
3486172	229	231	0.008	0.1	124.5
3486173	231	232.5	0.007	0.1	120.9
3486174	232.5	234	0.011	0.1	164.2
3486175	234	236	0.007	0.2	165.6
3486176	236	237	0.0025	0.2	124.4
3486177	237	238.2	0.006	0.2	152.1
3486178	238.2	239.9	0.009	0.2	176.7
3486179	239.9	241	0.006	0.1	115.1
3486181	241	243	0.007	0.4	157.4
3486182	243	245	0.006	0.1	148.6
3486183	245	246.77	0.016	0.4	294.3
3486184	246.77	248.5	0.014	0.3	332.7
3486185	248.5	250	0.01	0.2	163.7
3486186	250	252	0.017	0.2	134.5
3486187	252	254	0.011	0.1	101.3
3486188	254	255.25	0.026	0.2	150.2
3486189	255.25	256.62	0.011	0.1	128.4
3486191	256.62	257.15	0.02	0.2	98.2
3486192	257.15	257.8	0.019	0.3	246.6
3486193	257.8	259	0.01	0.2	136.8
3486194	259	261	0.01	0.2	147.3
3486196	261	263	0.01	0.2	158.7
3486197	263	265	0.027	0.5	487.3

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- ANTF — Andesitic Volcanic Rocks: Andesitic tuff
- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Lith Code	Description
DIOR	257.8 to 275.8m: DIOR - Green medium grained diorite. Ep/ab alt with pervasive weak mg. Alt intensity varies, some sections with more patchy ep, others with increase in cl alt. At 272.7m, 5cm ca vein with increased py in 8cm halos of cl alt with tr bi. Sharp contact to andesite.
ANTF	275.8 to 277.43m: ANTF - Fine grained intermediate andesite dyke. Ca alt of groundmass, and 2mm ca replaced amygdules? Strong pervasive mg. Sharp upper contact with diorite. Slightly chilled lower contact with finer grained diorite.
DIOR	277.43 to 297.35m: DIOR - Green/grey medium grained diorite. Variability in alt. Contact into grey green cl alt diorite with 15% visible plag and pervasive mg. At 280.33-284.5m alt changes to strong ep/ab perasive alt. 7cm qz/ca vein at 280.65m with 10cm cl/bi halos. Sharp change back to cl alt diorite at 284.5m, followed by gradational change to grey fresher diorite with very weak ep alt. Blk cl stringers veinlets around 289-290m. At 290.4m patch of ep marks change to cl alt to 293.3m. From 293.3m to lower contact pervasive ep/ab alt diorite. Different phases of alt in the same diorite, rather than different phases of diorite. Some of the alt contacts are sharper than others, mgsus signature is very similar for all three alt variants.
APXT	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0 100	0 100	0 10	0 5										
265	97.67	93.33												
	101.33	96.67												
270	100	91	0.5	0	2		1	1	2		2			
	96	73.67												
275	99	92												
	100.33	97.67	0.3	0	1						2	2		
280	100.33	98												
	100	96.67												
285	100.67	68.67	0.5	0	2			1	3		2			
290	98.67	80												
	101	95												
295	100.33	87.33												
300	100	70	0.5	0	1				1		2	1		
	100.33	71.33												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486197	263	265	0.027	0.5	487.3
3486198	265	267	0.016	0.4	339.6
3486199	267	269	0.019	0.4	303.5
3486201	269	271	0.019	0.3	301.9
3486202	271	273	0.008	0.1	63.9
3486203	273	274	0.016	0.6	251.6
3486204	274	275.8	0.015	0.5	219.1
3486205	275.8	277.43	0.007	0.4	373.5
3486206	277.43	279	0.007	0.1	115.7
3486207	279	281	0.009	0.2	99.1
3486208	281	283	0.024	0.3	125.1
3486209	283	285	0.011	0.2	190.3
3486211	285	287	0.0025	0.05	59.7
3486212	287	289	0.007	0.2	125.9
3486213	289	291	0.0025	0.1	96.2
3486214	291	293	0.008	0.05	53.8
3486215	293	295	0.011	0.2	163.2
3486216	295	296	0.017	0.4	343.4
3486217	296	297.35	0.018	0.2	196.8
3486218	297.35	299	0.011	0.3	238
3486219	299	301	0.006	0.1	101.4
3486221	301	303	0.005	0.1	130.8

DH Survey

Depth (m)	Azimuth	Dip	Tool
283	103.2	-50.8	Reflex EZ-Trac

Legend

Lith Code

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Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
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Lithology

Lith Code	Description
APXT	297.35 to 323.8m: APXT - Grey green andesite crystal tuff. Increase in py at contact. Patchy ep alt around phenos similar to diorite alt, but darker green. 15% pyrox and aug phenos, and 5% hbl. Fine grained ash tuff from 298-299m and 299.75-300.2m; contact is parallel to core axis. Ep stringers cross contact. Ash tuff at 303.65-304.15m, and 304.7-305.3m. Pale green ash tuff at 308-308.6m. Gradual contact starts around 321m; silicified with increase in ca veining. Rubbly fault at contact from 323.15m.
DIOR	323.8 to 328.81m: DIOR - Grey green diorite. Compressed fault breccia from contact to 325.55m; infilled with cy and ca, contains clasts of andesite. From 325.55m cl rich crowded plag diorite; plag are very white against the green cl rich groundmass. Ep is patchy. From 328.55m sheared and faulted at contact with increased ep/ca/cl veining and silicified.
ANTF	328.81 to 335.7m: ANTF - Pale grey to grey andesite tuff. Pale grey crackled hornfelsing at upper contact. Approx 30% fracs throughout. Diss ep alt, replacement; very weak mg. Minor ca and cl stringers. Darker grey around 333-334m, looks more silicified. Weaker hornfelsing from around 334m to lower contact with increase in ca/cl stringers and ep and cl patches at contact.
DIOR	335.7 to 339.7m: DIOR - Green medium grained diorite. Ep/ab alt. Strong pervasive mg. Speckled ep/ab alt obscures protolith texture, and cl replacement of phenos. Sharp contacts.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	100.33	71.33											
305	100	81.33											
	99.67	47											
310	99	89	0.5	0	1				1		2	1	
	99	82											
315	100	79.67											
	99	55.33											
320	99	50											
325	98.33	68.33	0.5	0	1				2				
	97	43.67											
330	98.67	18.33	0.5	0									2
335	98.33	69.67											
	100.33	77.67	0.3	0	2			1	2		1		

Structure Type

FL (3486233)

FRZ (3486239 – 3486241)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486221	301	303	0.005	0.1	130.8
3486222	303	305	0.02	0.2	117.1
3486223	305	307	0.01	0.2	159.5
3486224	307	309	0.02	0.2	152.5
3486225	309	311	0.013	0.2	136.4
3486226	311	313	0.014	0.2	146.8
3486227	313	315	0.008	0.05	95.7
3486228	315	317	0.008	0.05	96.2
3486229	317	319	0.056	0.05	67.7
3486231	319	321	0.007	0.1	103.9
3486232	321	322	0.007	0.1	98.4
3486233	322	323.8	0.005	0.05	53.8
3486234	323.8	325	0.012	0.05	12.8
3486236	325	327	0.008	0.1	97.7
3486237	327	328.81	0.007	0.05	12.8
3486238	328.81	330	0.016	0.05	5.3
3486239	330	332	0.012	0.05	3.2
3486241	332	334	0.013	0.05	3.4
3486242	334	335.7	0.006	0.05	5.7
3486243	335.7	337	0.008	0.1	99.6
3486244	337	338	0.008	0.2	197.3
3486245	338	339.7	0.009	0.2	214.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
313	109.4	-50.5	Reflex EZ-Trac

Legend

Lith Code

- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- DIOR — Diorite
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff

Structure Type

- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Depth	Lith Code	Description
340	DIOR	335.7 to 339.7m: DIOR - Green medium grained diorite. Ep/ab alt. Strong pervasive mg. Speckled ep/ab alt obscures protolith texture, and cl replacement of phenos. Sharp contacts.
	DIOR	339.7 to 346.89m: DIOR - Appears to be finer grained diorite than above, but could just be due to alt change. Stronger cl alt and weak patches and veinlets of ep. Crowded 20% plag, with 15% mafics. Mg intensity is similar to above diorite. Strong alt upper contact, weakly silicified subtle lower contact.
345	APXT	346.89 to 357.45m: APXT - Grey green andesite crystal tuff. Very subtle, weakly silicified upper contact. Ep replacment alt very simlar to above diorite, but appears more interstial to phenos or preferential replacement of aug or pryox. Pyrox/aug phenos avg 10-15% with 5% hbl. Mg is much weaker than above diorite. Sharp contact below into plag rich diorite.
350	DIOR	357.45 to 358.5m: DIOR - Medium to fine grained plag rich diorite, similar to diorite at 339.7-346.89m. Plag 20% alt by ep. Cl alt groundmass, perasive mg. Sharp contacts with andesite.
355	APXT	358.5 to 375.03m: APXT - Grey green andesite crystal tuff. Ep replacment alt very similar to diorite, but appears more interstial to phenos or preferential replacement of aug or pryox. Pyrox/aug phenos avg 10-15% with 5% hbl. Mg is much weaker than above diorite. At 369.6-371.7m compressed fault zone with 10% rubble; cy infilling.
360	ANTF	375.03 to 375.76m: ANTF - Pale grey hornfelsed andesite tuff dyke. Aphanitic, weak diss py; no mg. Weak ep alt. Sharp contacts. May have been reheated with hydrothermal fluid to cause hornfelsing. Any original protolith has been destroyed by alt.
365	DIOR	375.76 to 376.7m: DIOR - Green medium grained diorite. Ep/ab

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
340	100.33	77.67	0.3	0	2			1	2		1			
	100.33	81												
	99	87.33	0.2	0	2				1		2			
345	100	87												
	99	92.33												
	100	89	0.2	0	1				1		2			
350	100	75												
			0.2	0	2				1		2			
	100	65.33												
	99.33	77.67												
355	100	89	0.3	0	1				1		2			
	101.67	60												
360	99.67	41.67												FL
	98.33	58.67												
365			0.5	0					1				2	
	96.67	71	0.5	0	2			1	2		1			

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486245	338	339.7	0.009	0.2	214.6
3486246	339.7	341	0.011	0.2	141.1
3486247	341	343	0.006	0.1	130.6
3486248	343	345	0.028	0.05	61.9
3486249	345	346.89	0.009	0.1	94.6
3486251	346.89	348	0.005	0.1	105
3486252	348	350	0.0025	0.2	124.7
3486253	350	352	0.007	0.2	132.5
3486254	352	354	0.007	0.1	98.9
3486255	354	356	0.009	0.1	114.9
3486256	356	357.45	0.011	0.1	148.7
3486257	357.45	358.5	0.011	0.1	137
3486258	358.5	360	0.007	0.1	111.6
3486259	360	362	0.009	0.1	126.1
3486261	362	364	0.006	0.1	95.8
3486262	364	366	0.007	0.2	138.1
3486263	366	368	0.006	0.2	112.3
3486264	368	370	0.013	0.2	224.6
3486265	370	372	0.006	0.2	200.7
3486266	372	374	0.006	0.05	79.7
3486267	374	375.03	0.009	0.05	58.9
3486268	375.03	375.76	0.036	0.05	65.4
3486269	375.76	376.7	0.229	0.2	75.4

DH Survey

Depth (m)	Azimuth	Dip	Tool
343	110.4	-49.9	Reflex EZ-Trac
373	111.7	-49.4	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Lithology

Depth	Lith Code	Description
	DIOR	375.76 to 376.7m: DIOR - Green medium grained diorite. Ep/ab alt. Strong pervasive mg. Speckled ep/ab alt obscures protolith texture, and cl replacement of phenos. Between hornfelsed andesite tuff dykes. Lower contact along core axis.
	ANTF	376.7 to 377.4m: ANTF - Pale grey hornfelsed andesite tuff dyke. Pale grey hornfelsed andesite tuff dyke. Aphanitic, weak diss py; no mg. Weak ep alt. Lower contact along core axis to 377m then frac'd and minor faulting at contact with diorite.
	DIOR	377.4 to 379.96m: DIOR - Green medium grained diorite. Ep/ab alt. Strong pervasive mg. Speckled ep/ab alt obscures protolith texture, and cl replacement of phenos. Between hornfelsed andesite dykes. Contact with lower dyke not as sharp as upper one.
380	ANTF	379.96 to 380.55m: ANTF - Similar to previous andesite dyke at 376.7m; darker grey with ghostly plag and ep replacment. Could be a fine grained DRPD that has been hornfelsed and frac'd, difficult to determine protolith.
	APXT	380.55 to 384.1m: APXT - Grey andesite crystal tuff. Weakly faulted and cy alt. 10% mafics, mix of aug/pyrox and hbl. Weak ep alt concentrated closer to top. At 382.15-382.5m, 8cm ca vein followed by fault breccia with ca stringers and a cy matrix.
385	DIOR	384.1 to 386.04m: DIOR - Green medium grained diorite. Ep/ab alt. Strong pervasive mg. Speckled ep/ab alt obscures protolith texture, and cl replacement of phenos. Upper contact sharp wit cy rich andesite, inclusion of silicified andesite at 384.35-384.6m. Sharp lower contact into andesite.
390	APXT	386.04 to 398.8m: APXT - Dark grey andesite crystal tuff. 10% mafic phenos, mainly aug and pyrox. Mottled ca/ep alt. Weak mg. From around 389.4m increase in cy, compression zone. From 391-392.75m, frac zone for 30cm, followed by fault breccia; cy infill with andesite clasts. After fault phenos increase in size to avg 4mm and patchy ep increases. Sharp contact with diorite.
395		
	DIOR	398.8 to 400.08m: DIOR - Green medium grained diorite. Perasive weak ep/ab alt with patches of stronger ep alt. At 399.08-339.34m andesite raft with ep/ca alt. Weak mg, due to less propylitic alt and secondary mg? Sharp contacts with diorite.
400	APXT	400.08 to 404.82m: APXT - Dark grey green andesite crystal tuff. 15% mafics, mainly aug/pyrox with minor hbl. Cl alt with patchy ep alt, weak mg. At 402-402.4m fault breccia with green cl/cy cement and andesite clasts ranging from 5mm-3cm.
405	DIOR	404.82 to 406.92m: DIOR - Green medium grained diorite. Perasive ep/ab alt, stronger than previous diorte at 398.8m, with patches of stronger ep alt. Stronger mg than previous, secondary associated with stronger alt. Sharp contacts with andesite.
	APXT	406.92 to 410.05m: APXT - Grey green andesite tuff. Similar to andesite at 400.08m. Increase in patchy ep and weakly silicified, very weak ca alt of groundmass. Simliar composition to previous, with addition of 3% white to ghostly plag. Sharp contacts with diorite.
410	DIOR	410.05 to 419.38m: DIOR - Green medium grained diorite.

Geotechnical / Mineralisation

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
	96.67	71	0.5	0
			0.5	0
			0.2	0
	97.67	55.33	0.1	0
	96.67	75	0.1	0
			0.2	0
	98.33	52.33		
	100	71.33		
	97.33	40.67	0.3	0
	99	53		
	100	78.33		
			0.2	0
	100	78.67		
			0.2	0
	98.67	80		
			0.5	0
	100.33	82.33		
			0.3	0
	100	74.67		
			0.4	0
	100.67	81		

Alteration Mineral Intensity

Depth	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	2			1	2		1		2
					1				
	2			1	2				
					1				2
					1		1		
	2			1	3				
	1				2				
	1			1	2				
					1		2		
	2			1					
	1				1		2	1	1
	2			1	3		1		

Structure Type

Depth	Structure Type
	FRZ
	BZ
	BZ
	BZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486269	375.76	376.7	0.229	0.2	75.4
3486271	376.7	377.4	0.132	0.1	21.4
3486272	377.4	378.5	0.013	0.2	181.7
3486273	378.5	379.96	0.012	0.05	105.1
3486274	379.96	380.55	0.009	0.05	4.5
3486276	380.55	382.5	0.007	0.05	34.4
3486277	382.5	384.1	0.033	0.05	49.2
3486278	384.1	386.04	0.01	0.1	82.6
3486279	386.04	388	0.052	0.1	101.7
3486281	388	390	0.014	0.1	105.6
3486282	390	392	0.007	0.1	89.6
3486283	392	394	0.007	0.1	76.9
3486284	394	396	0.0025	0.05	21.1
3486285	396	397	0.0025	0.05	8.7
3486286	397	398.8	0.021	0.2	29.5
3486287	398.8	400.08	0.007	0.05	54.3
3486288	400.08	402	0.008	0.1	95.3
3486289	402	403	0.01	0.2	123.6
3486291	403	404.82	0.007	0.1	83.7
3486292	404.82	406	0.025	0.3	235.3
3486293	406	406.92	0.05	0.2	165.3
3486294	406.92	408.5	0.013	0.05	17.2
3486295	408.5	410.05	0.015	0.05	69.2
3486296	410.05	412	0.009	0.2	150.4
3486297	412	414	0.01	0.3	230.5
3486298	414	416	0.01	0.2	161.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
403	112.2	-48.5	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FRZ — Fracture Zone
- BZ — Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-028	Max	430	13-Jun-2020	16-Jun-2020	432609.182	6086339.509	1259.237	89.6	-53.1	NQ	Bethany Duff	

Purpose

Targeting western diorite with monzonite porphyry dykes (Porphyry Target A) - Resitvity low (fault?) zone from collar to ~110 m, followed by res high (diorite?) and moderate resistivity to EOH (footwall zone?). Targeting moderate resistivity from . Chargeability low (0 to 250m) and moderate (250m to EOH); Geophysics Line 6400N, Nosyrev target M7.

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
415	DIOR	410.05 to 419.38m: DIOR - Green medium grained diorite. Perasive ep/ab alt, with ep and ca veinlets, strong mg. Generally weak mineralization, occasional py stringer and diss associated with ep veining. Sharp contacts.	100.67	81												
			98	64.33	0.4	0	2			1	3		1			
			97.33	46.67												
420	DIOR	419.38 to 430m: DIOR - Finer grained diorite than above. Crowded with 20% plag. Sharp contact with above diorite; Cl rich ca/qz vein with blood red hm, for 10cm. Groundmass is alt green by ep, texture is clear. Ep is also in patches or veins. Mg is still present but weaker than above diorite. At 427.5-428.7m weak fault with increase in cy and ca veining with hm on fracs. EOH	100.33	34												
			99.67	66.33	0.2	0	1				2					
425			100.33	20.33												FL

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486298	414	416	0.01	0.2	161.6
3486299	416	418	0.023	0.3	191.6
3486301	418	419.38	0.017	0.2	166.8
3486302	419.38	421	0.013	0.1	113
3486303	421	423	0.01	0.2	145.8
3486304	423	425	0.022	0.2	140.7
3486305	425	427	0.006	0.2	127.7
3486306	427	428.4	0.0025	0.1	96.1
3486307	428.4	430	0.007	0.2	130.1

Depth (m)	Azimuth	Dip	Tool
430	117	-47.6	Reflex EZ-Trac

Legend

Lith Code

DIOR Diorite

Structure Type

FL Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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	Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity										Assays						DH Survey			
Depth	Lith Code	Description	Recovery	RQD	Pyrite	Chalcopyrite	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
			(%) 0 100	(%) 0 100	(%) 0 10	(%) 0 5																				
5																										
10																										
15																										
20	OVB		0	0																						
25		0 to 49m: OVB - Mix of cy, oxidzed reddish brown soil, rounded pebbles, redrill. Fragments of andesite and diorite. No start block, at 39m advance casing block.																								
30																							30	89.9	-65.4	Reflex EZ-Trac
35																										

Legend

Lith Code

OVB
Soil Overburden : Undivided surficial materials

Structure Type

BZ
Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

MOUNTMILLIGAN

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
0–49	OVB	0 to 49m: OVB - Mix of cy, oxidzed reddish brown soil, rounded pebbles, redrill. Fragments of andesite and diorite. No start block, at 39m advance casing block.	0	0												
49–72.7	DIOR	49 to 72.7m: DIOR - Heavily oxidized and frac'd diorite intermixed with reddish brown limonite soil. Pitted and rough texture, whitish grey in colour. At 64.8m more competent and grey in colour, still weathered with visible equigranular texture. At 67.4m, 2cm dyklet of megacrystic monzondiorite? could also be a mini breccia, has small angular clasts and 3cm laths. At 67.07m limonite oxidation intensifies again. 20cm fault breccia at 70m.	110.5	0	1	0	1							1		
			95.67	0												
			64.67	0												
			50	0												
			69.67	0												
			97.33	16.33												
			97.67	21												
			97.67	4.67												BZ
72.7–75	DIOR		99.67	12	1	0								1		
			100	5												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486308	49	51	0.017	0.3	84.9	51	93.6	-66.1	Reflex EZ-Trac
3486309	51	53	0.023	0.4	95.5				
3486311	53	55	0.026	0.3	100.3				
3486312	55	57	0.039	0.3	73.7				
3486313	57	59	0.02	0.3	90.5				
3486314	59	61	0.064	0.6	85.7				
3486316	61	63	0.039	0.4	88.9				
3486317	63	65	0.012	0.2	82.6				
3486318	65	67	0.012	0.2	91.8				
3486319	67	69	0.043	0.4	107.2				
3486321	69	71	0.08	0.2	80.6				
3486322	71	72.7	0.058	0.2	40.8				
3486323	72.7	74	0.01	0.2	125				
3486324	74	76	0.009	0.1	96.6				

Legend

Lith Code

- OVB — Soil Overburden : Undivided surficial materials
- DIOR — Diorite

Structure Type

- BZ — Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	72.7 to 85.1m: DIOR - Grey medium grained diorite, similar to prevoius unit. Oxidation changes to Mn oxides. Still very frac'd, clearer diorite texture; grey and white. Magnetic. Cy pepply gouge at contact into fresher diorite.	100	5	1	0								1		
80			95.67	0												
			90	0												
85			101.67	6												
	DIOR	85.1 to 96.04m: DIOR - Fresh unaltered diorite. Medium grained, feldspar and mafics farily equal. More pryox than hbl. Pervasive weak mg. Tr ep alt as stringers. Fine grained diss py.	100	18	1	0					1					
90			96	16.33												
95			87	21.33												
	DIOR	96.04 to 98.75m: DIOR - Grey/green finer grained plag rich diorite. Sharp contacts with diorite above, 20cm rip up clast or raft of above diorite at 96.45m. 15% euhedral plag avg 2mm. Diss mg. Weakly silicified. Frac'd lower contact back into diorite.	96.67	15.67	0.5	0	1				1		1		1	
100	DIOR		101	28.33	0.5	0	1				1				1	
			98.67	53.33												
105			96.33	46												
110			95.67	32.67												
			95	29												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486324	74	76	0.009	0.1	96.6				
3486325	76	78	0.01	0.1	82.2				
3486326	78	80	0.008	0.05	56.3				
3486327	80	82	0.009	0.2	101.6	81	96.6	-66.4	Reflex EZ-Trac
3486328	82	84	0.064	0.1	87.3				
3486329	84	85.1	0.008	0.1	107.7				
3486331	85.1	87	0.01	0.1	112.7				
3486332	87	89	0.0025	0.2	166.7				
3486333	89	91	0.0025	0.1	107.4				
3486334	91	93	0.0025	0.05	88.6				
3486335	93	95	0.0025	0.2	148				
3486336	95	96.04	0.0025	0.1	114.5				
3486337	96.04	97.65	0.01	0.1	115.2				
3486338	97.65	98.75	0.0025	0.1	123				
3486339	98.75	100.5	0.0025	0.1	93.7				
3486341	100.5	102	0.0025	0.2	93.1				
3486342	102	104	0.0025	0.1	96.4				
3486343	104	106	0.0025	0.1	93.9				
3486344	106	108	0.0025	0.05	96.2				
3486345	108	110	0.006	0.1	95.8				
3486346	110	112	0.0025	0.05	75.7	111	96.5	-66.3	Reflex EZ-Trac
3486347	112	114	0.0025	0.05	74.5				

Legend

Lith Code

DIOR Diorite

Structure Type

FL Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
115	DIOR	98.75 to 135.63m: DIOR - Grey and white fresh unaltered diorite, similar to above at 86.1m. Tr ep patches and stringers. Pink qz E vein at 121.5m, 1cm wide. At 123m, frac zone for 30cm followed by weakly consolidated cy rich fault and 10cm of rubbly gouge. At around 127m grades into more grey groundmass; composition same as above with weak silica overprint. Slight increase in py towards lower contact.	95	29	0.5	0	1				1				1	FL
120			97.67	49												
			100	24.33												
			99.33	46.33												
125			96.67	26.33												
			99.67	13.67												
130			100.33	15.67												
			98.33	21.33												
135	DIOR	135.63 to 138m: DIOR - Dark grey to grey diorite fault breccia. From contact to 136.65m dark grey groudmass with blk cl stwk; clasts are grey, subangular and avg 1cm; weak purplish hm on fracs. From 136.65m paler grey with increase in cy, change to greener cl and additon of ca stringers; more fracs and not as consolidated as above.	99.67	45	0.4	0							2			BZ
	DIOR	138 to 147.31m: DIOR - Grey mostly unaltered diorite. Same as above fault zone at 127m. Weakly silicified. Occasional dark cl veining intermixed with ca veinlets. Weak diss py. Gradual contact into more alt diorite.	99.67	27.67	0.4	0	1								1	
140			100	43												
145			100	33.33												
	DIOR		101	74.33	0.3	0	1			1	2		2			
150			100.33	65.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486347	112	114	0.0025	0.05	74.5				
3486348	114	116	0.0025	0.05	63.4				
3486349	116	118	0.0025	0.1	141.4				
3486351	118	120	0.0025	0.05	77.8				
3486352	120	122	0.008	0.2	109.2				
3486353	122	124	0.009	0.05	92.1				
3486354	124	126	0.0025	0.05	84.6				
3486356	126	128	0.0025	0.05	87.9				
3486357	128	130	0.0025	0.05	80.6				
3486358	130	132	0.0025	0.05	75.5				
3486359	132	134	0.0025	0.05	102				
3486361	134	135.63	0.0025	0.05	100.3				
3486362	135.63	137	0.013	0.1	151.1				
3486363	137	138	0.132	0.4	314.9				
3486364	138	140	0.046	0.1	142.8				
3486365	140	142	0.129	0.2	153.5	141	97.5	-66.5	Reflex EZ-Trac
3486366	142	144	0.007	0.1	157.1				
3486367	144	146	0.01	0.05	80.6				
3486368	146	147.31	0.0025	0.05	87.1				
3486369	147.31	149	0.0025	0.05	121.1				
3486371	149	151	0.0025	0.1	117.6				

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FL — Fault
- BZ — Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity										Assays						DH Survey			
Depth	Lith Code	Description	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
155	DIOR	147.31 to 159.79m: DIOR - Green medium grained diorite. Pervasive ep/ab alt, occasional patches of stronger ep. Blk cl veinlets with ca veinlets slight increase around 154.5m. At 157.2m, 15cm vuggy ca vein with ep, followed by 15cm of strong mg, cl rich, weak potassic alt section. Frac zone follows potassic alt, with richer green ep alt and hm on fracs.	100.33	65.67	0.3	0	1			1	2		2				3486371	149	151	0.0025	0.1	117.6	171	93.4	-67.1	Reflex EZ-Trac
																	3486372	151	153	0.0025	0.05	102.1				
			100	56													3486373	153	155	0.0025	0.05	104.4				
																	3486374	155	157	0.0025	0.05	79.7				
			100.33	55.33												FRZ	3486375	157	158	0.01	0.2	273.6				
																	3486376	158	159.79	0.009	0.3	400.7				
160	DIOR	159.79 to 162.1m: DIOR - Grey altered diorite. Diorite texture is obscured by alt, ghost diorite texture partially visible; pervasive cl alt, strong mg and weak bi. Sharp contacts with propylitic alt diorite, with a few patches within.	99.33	63.33	5	0	2		1				2				3486377	159.79	161	0.017	0.3	259.6				
																	3486378	161	162.1	0.007	0.05	52.5				
165	DIOR	162.1 to 167.82m: DIOR - Green grey diorite. Pervasie ep/ab alt with slight potassic overprint; protolith texture is obscured by alt. Increase cl at and very strong mg. Contacts are not sharp, gradual alt changes.	98.67	92.67	0.2	0	3			1	2		1				3486379	162.1	164	0.0025	0.1	112.4				
																	3486381	164	166	0.006	0.2	133.1				
			100	57.33													3486382	166	167.82	0.006	0.2	126.1				
	DIOR	167.82 to 169.4m: DIOR - Grey diorite. Potassic alt overprinting the propylitic diorite; ghost texture slightly visible through alt. Mafics appear to have a combination of cl and bi alt. Mg is still quite strong. Increase in diss py.	99	84.67	2	0	2		1				2				3486383	167.82	169.4	0.0025	0.9	153.5				
170	DIOR	169.4 to 174.37m: DIOR - Green medium grained diorite. Pervasive ep/ab alt, and cl alt mafics. Weak diss py, pervasive mg. Near contact around 174m propylitic alt starts to alt to se.	98.33	96.67	0.3	0	2			1	1	1	1				3486384	169.4	171	0.01	0.1	149.5				
																	3486385	171	172.4	0.0025	0.2	269.9				
																	3486386	172.4	174.37	0.008	0.3	365.6				
175	DIOR	174.37 to 186.05m: DIOR - Grey green strongly alt diorite. Contact into grey shear zone with QSPC alt; pervasive cl/ca alt, ca veining, 20 degrees to core axis. At 175m increase fracs and minor gouge. At 175.3-176m, 176.8-177.5m and 178.6-179.13m zones of what appears to be the ep/ab diorite but has altered to se or white mica; greenish white alt, very soft, with a translucent halo around the edges. Between theses se sections is grey QSPC alt, with visible mg, diss py and ca veining. More patches of white se alt around 183m to contact. 15cm qz vein marking lower contact.	98	44.67	2	0	2					2	2	2		FRZ	3486387	174.37	176	0.01	0.2	158.1				
																	3486388	176	178	0.009	0.2	190.6				
			100	49.67													3486389	178	180	0.006	0.2	181.2				
180			100.33	70													3486391	180	182	0.015	0.3	162.4				
																	3486392	182	184	0.006	0.3	133.4				
185			100.67	75.33													3486393	184	186.05	0.009	0.3	172.3				
	DIOR	186.05 to 191.45m: DIOR - Green diorite. Still weakly se alt as above but stronger ep/ab alt and hm alt on fracs and with ca	99.33	63	0.3	0	2			1	1	1	1				3486394	186.05	188	0.005	0.2	153.2				
																	3486396	188	190	0.009	0.3	242.9				

Legend

Lith Code

DIOR — Diorite

Structure Type

FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
DIOR	186.05 to 191.45m: DIOR - Green diorite. Still weakly se alt as above but stronger ep/ab alt and hm alt on fracs and with ca veinlets. At 188.4m cy infill with increase in ca veinng, followed by frac zone with strong hm on frac surfaces. Frac zone ends at 190.65m but cy infill still patchy to contact. 1cm E vein at 191.2m. Sharp alt change at contact.
DIOR	191.45 to 205.7m: DIOR - Dark grey alt diorite. Protolith is mostly obscured, but slight ghostly diorite texture visible through alt. Mafics are cl/bi alt. At 197.2m silica overprint, followed by fault breccia from 198.7-201.6m; cl/cy cement with clasts of dark grey weakly slicified diorite avg 1cm, up to 4cm; includes brecciated ca veining. Diss py strong in silcified section above and drops off in fault breccia. From around 204m weak ca shearing low angle to core axis (20 degrees) and 1cm wide pinkish qz veins with blebs of py.
DIOR	205.7 to 211.65m: DIOR - Green medium grained diorite. Pervasive propylitc alt mainly ep with tr ab. Sharp alt contacts with potassic alt. Mg still strong. Tr sulphides.
DIOR	211.65 to 213.5m: DIOR - Dark grey diorite. Cl/bi alt wth weak overprinte of QSPC; ca wash with weak silica. From 212.05-212.8m frac'd with 20cm of cl gouge, also minor gouge on frac surfaces. Ghostly diorite texture visible under alt. Gradational contact back into propylitic diorite.
DIOR	213.5 to 226.65m: DIOR - Green medium grained diorite. Pervasive ep/ab alt; weak mg. Frac zones at 219.8-220.1m, rubble with 7cm of weakly consolidated gouge; and 225-225.62m, low angle ca vein and frac followed by rubble. Sharp contacts.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
190	99.33	63	0.3	0	2			1	1	1	1		
	97	57.33											
195	103	91.67	5	0	2		1				2		1
	99.67	81.33											
200	100.67	65.33											
205	100.33	77.67											
	100	86											
210	98.67	84.67	0.2	0	1			1	2		1		
215	92.67	51	3	0	2		1				2	2	1
	103.33	81.33											
220	96.33	63.33	0.3	0	1			1	2				
	103.67	54											
225	97.67	76.33											
	101	41.33											

Structure Type

Depth	Structure Type
190	FRZ
200	BX
215	FL
220	FRZ
225	FRZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486396	188	190	0.009	0.3	242.9
3486397	190	191.45	0.006	0.1	121.8
3486398	191.45	193	0.017	0.4	334.8
3486399	193	195	0.04	0.3	225.7
3486401	195	197	0.052	0.3	191.2
3486402	197	199	0.02	0.2	97.6
3486403	199	201	0.011	0.4	244.7
3486404	201	203	0.013	0.5	255.6
3486405	203	204.2	0.02	0.2	160.1
3486406	204.2	205.7	0.025	0.4	145.3
3486407	205.7	207.7	0.0025	0.1	142.9
3486408	207.7	209.7	0.009	0.3	279.3
3486409	209.7	211.65	0.008	0.2	109.3
3486411	211.65	213.5	0.012	0.3	256.3
3486412	213.5	215	0.016	0.2	196.8
3486413	215	217	0.007	0.2	144.3
3486414	217	219	0.008	0.2	143.7
3486415	219	221	0.01	0.2	193.2
3486416	221	223	0.01	0.3	304
3486417	223	225	0.0025	0.1	104.2
3486418	225	226.65	0.017	0.2	196.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
201	99.8	-67.1	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone
- BX — Breccia
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
DIOR	213.5 to 226.65m: DIOR - Green medium grained diorite. Pervasive ep/ab alt; weak mg. Frac zones at 219.8-220.1m, rubble with 7cm of weakly consolidated gouge; and 225-225.62m, low angle ca vein and frac followed by rubble. Sharp contacts.
APXT	226.65 to 230.19m: APXT - Grey green anediste crystal tuff dyke. 10% mafic phenos, mix of pyrox, aug and hbl. Localized ep halos around phenos, patches of strong pistachio green ep mainly on fracs. Stronger ep alt and silicified at contacts with diorite. Patchy plag, seems to be localized in stronger ep alt. Mineralized P veins crossing lower contact.
DIOR	230.19 to 235.8m: DIOR - Green medium grained diorite. Patchy ep/ab alt mixed with cl rich strong mg sections. Sharp contact with dyke and gradational lower alt contact. Tr diss py.
DIOR	235.8 to 239.75m: DIOR - Grey to black alt diorite. Grey and weakly sheared at contact with moderate ca stringers. Around 237m grades into darker grey to black cl/bi alt with less ca stringers. At 238.85m grades back to lighter grey with increased ca veining; pink ca veining mark lower contact. Finely diss py, increased in black stronger potassic alt.
DIOR	239.75 to 255.15m: DIOR - Green medium grained diorite. Pervasive ep/ab alt. At 243.3m massive ca/se/cl alt for 30cm followed by 40cm of cy cemented fault breccia. Fine grained andesite dyke at 294.8-294.94m. Patchy silica; occasional ca veins with potassic halos.
DIOR	255.15 to 266.86m: DIOR - Grey green diorite. Alt contact into QSPC alt zone to 256m; grey cl alt diorite with pinkish qz veining, weak silica and translucent ca flooding. At 256m transitions to a grey weak propylitic with patches of strong mg and cl alt. Ep gradually increases and becomes stronger around 261m where is becomes more like the previous diorite at 239.75m.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0–100	0–100	0–10	0–5										
213.5–226.65	101	41.33	0.3	0	1			1	2					
226.65–230.19	100.67	69	0.2	0	1				2				1	
230.19–235.8	100	86.67	0.3	0	1			1	2		1			
235.8–239.75	99.33	86.67	3	0	1		1				2	1		
239.75–255.15	100.67	98.67	0.4	0	1			1	2		1			
255.15–266.86	100	90.33	0.3	0	2			1	2		2			

Structure Type: BZ (at 255.15–256 m)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486418	225	226.65	0.017	0.2	196.6
3486419	226.65	228.2	0.008	0.2	183.9
3486421	228.2	230.19	0.008	0.1	134.4
3486422	230.19	232	0.009	0.2	210.7
3486423	232	234	0.006	0.2	148.3
3486424	234	235.8	0.006	0.3	231.1
3486425	235.8	237.8	0.019	0.5	439.9
3486426	237.8	239.75	0.006	0.2	158.6
3486427	239.75	241	0.007	0.2	209.6
3486428	241	243	0.008	0.2	160.1
3486429	243	245	0.013	0.2	146.2
3486431	245	247	0.012	0.2	234.8
3486432	247	249	0.006	0.05	98.2
3486433	249	251	0.006	0.1	130.3
3486434	251	253	0.008	0.4	180
3486436	253	254	0.01	0.2	190.9
3486437	254	255.15	0.008	0.2	116.1
3486438	255.15	256	0.019	0.5	247.2
3486439	256	258	0.008	0.3	236.3
3486441	258	260	0.009	0.3	231.8
3486442	260	262	0.006	0.2	208
3486443	262	264	0.007	0.3	298.6

DH Survey

Depth (m)	Azimuth	Dip	Tool
231	97.8	-67.4	Reflex EZ-Trac
261	112.6	-67.5	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- BZ — Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity										Assays						DH Survey			
Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
265	DIOR	255.15 to 266.86m: DIOR - Grey green diorite. Alt contact into QSPC alt zone to 256m; grey cl alt diorite with pinkish qz veining, weak silica and translucent ca flooding. At 256m transitions to a grey weak propylitic with patches of strong mg and cl alt. Ep gradually increases and becomes stronger around 261m where is becomes more like the previous diorite at 239.75m.	101.67	98	0.3	0	2			1	2		2				3486443	262	264	0.007	0.3	298.6				
			100.67	95.33													3486444	264	265	0.005	0.2	133.6				
																	3486445	265	266.86	0.006	0.2	194.7				
270	DIOR	266.86 to 280.4m: DIOR - Dirorite 2. Dark grey to black potassic alt diorite. Sharp contact upper contact with ca vein at a 40 degree angle to core axis. Protolith texture is obscured by alt, but occasional patches of texture indicate diorite is the protolith. Phenos are brownish green and appear to be pyrox alt by ep and bi and they have thin ca halos around them, could be garnets as they have retained their shape through alt. Groundmass is rich in cl and cy, very soft, mg is weak. From 270.7-272.1m green propylitic diorite with gradational contacts with potassic alt. Around 279m protolith resembles a volcanic but there are no clear contacts. At lower contact cy gouge on fracs and slickensides.	98.33	54.67	1	0	1		1				2	1			3486446	266.86	268.8	0.0025	0.2	157.1				
																	3486447	268.8	270.7	0.0025	0.1	117.3				
			98.67	66.33	0.5	0	2			1	2						3486448	270.7	272.1	0.005	0.2	201.3				
																	3486449	272.1	274	0.0025	0.2	167.6				
275			100	59													3486451	274	276	0.0025	0.3	153.1				
			100	66.67	2	0	1		1				2	1			3486452	276	278	0.0025	0.1	113.6				
																	3486453	278	279	0.0025	0.2	137.1				
280			97.33	72.33													3486454	279	280.4	0.0025	0.1	139.2				
	DIOR	280.4 to 302.05m: DIOR - Green medium grained propylitic diorite. Pervasive ep alt with tr ep. Pervasive mg with localized strong patches. At 289m, 1cm ca vein with weak potassic halo. Silica flooded at 285.17-285.35m. At 299.35-299.55m weakly sheared, weak potassic alt with increased py; and at 300.14-300.2m weak potassic alt with py stringers.															3486455	280.4	282	0.012	0.2	194.8				
			99.33	95.67													3486456	282	284	0.007	0.2	152.5				
285																	3486457	284	286	0.012	0.2	180.6				
			99.67	96.33													3486458	286	288	0.014	0.4	380.1				
																	3486459	288	290	0.011	0.5	129.5				
290			99.67	94	0.4	0	2			1	2		1				3486461	290	292	0.008	0.2	150	291	97.4	-67.5	Reflex EZ-Trac
			100	92.67													3486462	292	294	0.007	0.2	202.3				
295			98.33	95.67													3486463	294	296	0.01	0.2	122.9				
																	3486464	296	298	0.011	0.2	168.2				
			100	66.67													3486465	298	300	0.008	0.2	137.7				
300			100	72.67													3486466	300	302.05	0.007	0.2	116.4				

Legend

Lith Code

DIOR — Diorite

Structure Type

BZ — Fault Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Depth	Lith Code	Description	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	280.4 to 302.05m: DIOR - Green medium grained propylitic diorite. Pervasive ep alt with tr ep. Pervasive mg with localized strong patches. At 289m, 1cm ca vein with weak potassic halo. Silica flooded at 285.17-285.35m. At 299.35-299.55m weakly sheared, weak potassic alt with increased py; and at 300.14-300.2m weak potassic alt with py stringers.	100	72.67	0.4	0	2			1	2		1			
305	FALT	302.05 to 308.75m: FALT - Sheared, and silicified fault zone. Gradational contact into sheared rock, diorite texture fades out and is difficult to determine protolith. At 302.4m beginning of strong shear zone angled around 30 degrees to core axis. Weakly mylonitic with sheared cl and ca with occasional glimpse of black potassic alt underneath, minor patches of wispy beige se; pervasive silica overprint, 2cm qz vein at 302.6m 30 degrees tca. At 303m alt fault breccia with sub angular clasts of qz and ca; can also see the sheared movement in the same piece of core indicating a combination of ductile and brittle deformation. From 304.75m strongly silicified with pinkish grey qz overprint, with patchy beige se; occasional weaker silca windows with potassic alt visible; py seems to be associated more with the potassic alt then the qz. At 307.4m ca/cl vein at very low angle tca followed by grey to black potassic alt as above. Hint of ghostly diorite texture towards the contact.	99 / 100.33	53.33 / 63.67	8	0	1		1			1			2	
310	DIOR				5	0	1		1		1		2			
	APXT		99.33	81	0.3	0	2				1		1			
	DIOR	308.75 to 310.06m: DIOR - Dark grey diorite. Potassically alt with cl and mg, bi alt mafics; original ep alt of feldspars is still weakly visible through alt. No clear contact from shear above, gradational change to less alt.			0.2	0	1		1		1		1			
	APXT	310.06 to 311.6m: APXT - Grey fine grained andesite crystal tuff. Mostly unaltered; ca stringers and veinlets, 5mm ep/ca vein with py at 310.62m. Contacts with diorite are subtle but they seem to be vein controlled, ca veinlets mark contacts on either side.	100	84	0.2	0	1					1				
315	FALT	311.6 to 312.65m: DIOR - Similar to grey diorite at 308.75m. Pervasive cl alt with tr bi alt of mafics, ep alt of feldspars shows thorugh potassic alt. Strong mg. Lower contact not well defined, very subtle.	99.33	50.33	6	0	2		1				2	2		BZ / BZ
	APXT	312.65 to 314.73m: APXT - Grey andesite crystal tuff. Fairly unaltered, tr cl with cy and diss mg. Very fine grained, phenos visible but too small to identify and alt to mg. Late ca stringers and veinlets some with ep and py; patchy white se. Weak cy fault breccia at 314.7m for 10cm, and cy increases at contact into shear.	101.67	46.33												
320		314.73 to 318.36m: FALT - Grey to dark grey shear zone; could be andesite but too alt to determine. Potassic alt overprinted by QSPC; weak silica and abundant ca stringers. At 316.6m, 20cm microbreccia; small brittle zone within dominantly ductile movement. 6cm cy rich fault breccia at 316.05m followed by another microbreccia within the shear with mostly ca vein orphans less than 5mm. Around 317m patchy ep is associated with the ca veining; with shear almost parallel tca in contact with a cy rich fault breccia to around 317.45m. After 317.45m shear becomes less intense with more of the potassic alt showing through with a weak ca overprint. Contact marked by 3cm ca vein.	97.67	58	0.5	0	1				1		1	1		BZ
325		318.36 to 326.5m: APXT - Grey andesite crystal tuff. 2-3cm wide ca veins near contact; with patcy ep alt that appears simliar to diorite alt; strong pervasive mg; weak cy alt. Phenos are to small to identify and appear to have been replaced by mg. At 323.35m alt increases with 1cm wide ca/ep vein parallel to core axis with pale translucent ca flooding. Intermittent zones of fault breccia from around 323.8m with cy matrix and clasts of ca and minor host rock. From 325.1m becomes more competent again with ep/ca veining and weak foliation of mg in last 10cm before contact.	100	42.33												FL
	FALT		100	33.67	10	0	2		1				2		3	BZ
330		326.5 to 335.55m: FALT - Sheared fault zone; could be andesite but protolith is obscured. Faulted contact into weakly sheared fault breccia to 328m; weakly consolidated cy cement with broken 'orphaned' ca/qz veins. At 328m potassic alt shear parallel tca with ca veins, and stringers of ca/cl with increased py. At around 328.7m strong silicification with pinkish qz veins. At 329-329.6m potassic alt shear runs almost parallel tca with silicified shear; py more adundant in potassic alt than silica. Alternates between the potassic alt shear and silicification. At 332.1m pink qz vein that avg's 2cm wide along core axis, with specks of sp. Silica drops off at 334.2m, back into more potassic alt.	100.33	41.33												FL
335			100	81												
	FALT		103.33	0	15	0	2						2		2	

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486466	300	302.05	0.007	0.2	116.4				
3486467	302.05	304	0.015	0.4	129.7				
3486468	304	306	0.016	0.5	301.4				
3486469	306	307	0.012	0.05	20.3				
3486471	307	308.75	0.014	0.4	188.4				
3486472	308.75	310.06	0.006	0.1	123				
3486473	310.06	311.6	0.0025	0.1	71.8				
3486474	311.6	312.65	0.006	0.3	243.2				
3486476	312.65	313.7	0.0025	0.05	77.5				
3486477	313.7	314.73	0.0025	0.05	73.7				
3486478	314.73	316.5	0.008	0.3	235.7				
3486479	316.5	318.36	0.007	0.2	150.7				
3486481	318.36	320	0.0025	0.05	71.9				
3486482	320	322	0.0025	0.05	105.3	321	101	-68	Reflex EZ-Trac
3486483	322	324	0.009	0.2	183.6				
3486484	324	325	0.009	0.3	275.9				
3486485	325	326.5	0.012	0.2	162.8				
3486486	326.5	328	0.009	0.3	292.9				
3486487	328	330	0.019	0.6	124.2				
3486488	330	332	0.009	0.3	182.9				
3486489	332	334	0.08	0.7	143.6				
3486491	334	335.55	0.007	0.2	180.7				
3486492	335.55	337	0.01	0.5	343.8				
3486493	337	339	0.031	0.5	296.5				

Legend

Lith Code

- DIOR — Diorite
- FALT — Fault
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- BZ — Fault Breccia
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
FALT	335.55 to 361.3m: FALT - Shear zone, possible andesite protolith. Sharp contact at 30 degrees tca into shear. Potassic alt has been sheared and faulted to a mylonitic texture, rich in cy. Ca stringers have been distorted and rotated within a cy cemented fault breccia. Zones of 20% blue cl replacement of phenos or possible garnets; subhedral to anhedral crystals, some have a weak hexagagonal crystal structure; weak ca veining throughout with some halos rimming the crystals; appears to be andesite hosted. Py is concentrated in potassic alt shearing. At 345.7m, 30cm long pinkish qz vein with tr ga. At 347.3-348m massive pinkish qz vein with specks of sp, ga and cp. At 349.7m, 1cm pinkish qz vein with specks of cp and sp; along the edge of the qz vein deep red garnets. Blue cl sections intensify around 350m and alternate with potassic alt shear zones and less alt andesite. Ca veinlet with potassic halo marks contact.
DIOR	361.3 to 363.45m: DIOR - Green/grey diorite. Strong cl and possible weak bi alt wth patchy ep around the mafics as well as on fracs and veined; tr patches of ab. Strong mg. Gradual contact into more potassic rich diorite below.
DIOR	363.45 to 365.36m: DIOR - Dark grey diorite. Gradational contact into potassically alt, mafics appear to be alt by cl and bi, also weak ca replacement; protolith texture is obscured by alt. Increaese in ca veining from above as well as increase in diss py.
DIOR	365.36 to 368.8m: DIOR - Green diorite. Patchy ep/ab alt sharp contact with grey diorite above. Ep is stronger than previous propylitic diorite at 361.1m; ab in patches, almost vein like running perpindicular tca. Pervasive mg, with localized very strong patches.
DIOR	368.8 to 370.9m: DIOR - Dark grey to black diorite. Pervasive cl alt with weak bi alt. Increase in ca veining and diss py from above propylitic diorite. Contacts are gradational alt contacts not sharp. Patchy strong mg.
DIOR	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
340	103.33	0											
	96.67	0											
	99	69.67											
345	99.33	40.33											
	99	45.33	15	0	2						2		2
350	99.33	96											
	100	91.67											
355	98.33	86											
360	100	69.33	0.2	0	2			1	2		2		
365	100.67	49.33	1	0	1		1				2	1	
	99.33	93	0.3	0	2			1	3		1		
370	100.33	51.67	2	0	1		1				2		
	100	77.33	5	0.1			1	1	2		2	1	
375	100.67	42											

Structure Type

Structure Type
VN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486493	337	339	0.031	0.5	296.5
3486494	339	341	0.014	0.8	288.1
3486495	341	343	0.014	0.3	148.3
3486496	343	345	0.021	0.3	187.8
3486497	345	347	0.016	0.8	238.2
3486498	347	349	0.013	0.8	175.9
3486499	349	351	0.011	0.4	320
3486501	351	353	0.009	0.2	158.3
3486502	353	355	0.012	0.3	212.5
3486503	355	357	0.008	0.5	374
3486504	357	359	0.007	0.3	341
3486505	359	360	0.007	0.4	438.2
3486506	360	361.3	0.006	0.4	425
3486507	361.3	362.5	0.005	0.2	273.5
3486508	362.5	363.45	0.008	0.2	271.7
3486509	363.45	365.36	0.007	0.3	389.6
3486511	365.36	367	0.006	0.4	563.6
3486512	367	368.8	0.008	0.3	444.1
3486513	368.8	370.9	0.006	0.7	489.3
3486514	370.9	372	0.011	0.4	474
3486516	372	374	0.013	0.4	671.6
3486517	374	376	0.007	0.3	315.7
3486518	376	378	0.009	0.3	358.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
351	101.4	-68	Reflex EZ-Trac

Legend

Lith Code

- FALT — Fault
- DIOR — Diorite

Structure Type

- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
380	DIOR	370.9 to 431.8m: DIOR - Aternates between green propylitic diorite and potassic alt. Grades into a zone of mainly dark grey potassic alt wth intermittent sections of propylitic diorite with increased cl alt; py drops off in these sections; ep is still pervasive but seems to alt the felsics and not the mafics, visible unaltered hbl and pyrox. Strong potassic zones have strong ca veining and diss py varies from around 6-10%. At 398.6m, 30cm fault gouge. Pinkish qz veins with blebs of cp and specks of ga rimming the cp, D veins?. Around 420.5m ca veins have stronger orientation at a 20-30 degree angle to core axis. Mg is stronger in propyitic alt than potassic alt. At 423.2m ep increases followed by just over a metre of NACA alt; bone white ab with patches of ep. After the NACA alt around 428m, ca alt halos with minor Kspar, perhaps picked up from a unit further downhole. Gradational lower contacat into strong potassic alt.	100.67	42												
			100	31.67												
			99.67	68												
385			99.67	49.67												
			99.67	76.67												
390			99.33	82.33												
			99.67	59												
395			99.33	44	5	0.1			1	1	2		2	1		
			98.33	87.33												FL
400			100.33	88.33												
405			100	100												
			100	100												
410			99.33	69.33												
			99.67	77.33												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486518	376	378	0.009	0.3	358.5				
3486519	378	380	0.009	0.4	372.2				
3486521	380	382	0.011	0.3	284.5	381	104	-67.9	Reflex EZ-Trac
3486522	382	384	0.006	0.2	239.9				
3486523	384	386	0.005	0.2	267.8				
3486524	386	388	0.006	0.3	258.4				
3486525	388	390	0.009	0.3	415.1				
3486526	390	392	0.008	0.2	306.2				
3486527	392	393.4	0.009	0.3	352.7				
3486528	393.4	395	0.015	0.4	314.3				
3486529	395	397	0.008	0.4	411.9				
3486531	397	399	0.01	0.3	329.9				
3486532	399	401	0.009	0.6	706.8				
3486533	401	403	0.009	0.4	532.6				
3486534	403	405	0.014	0.5	424.2				
3486535	405	407	0.013	0.3	329.2				
3486536	407	409	0.008	0.1	81.9				
3486537	409	411	0.006	0.05	75.4				
3486538	411	413	0.01	0.1	102.4				
3486539	413	415	0.008	0.2	88.6				

Legend

Lith Code

DIOR Diorite

Structure Type

FL Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology: Lith Code	Lithology: Description	Geotechnical: Recovery (%)	Geotechnical: RQD (%)	Mineralisation: Pyrite (%)	Mineralisation: Chalcopyrite (%)	Alteration Mineral Intensity: Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	370.9 to 431.8m: DIOR - Aternates between green propylitic diorite and potassic alt. Grades into a zone of mainly dark grey potassic alt wth intermittent sections of propylitic diorite with increased cl alt; py drops off in these sections; ep is still pervasive but seems to alt the felsics and not the mafics, visible unaltered hbl and pyrox. Strong potassic zones have strong ca veining and diss py varies from around 6-10%. At 398.6m, 30cm fault gouge. Pinkish qz veins with blebs of cp and specks of ga rimming the cp, D veins?. Around 420.5m ca veins have stronger orientation at a 20-30 degree angle to core axis. Mg is stronger in propyitic alt than potassic alt. At 423.2m ep increases followed by just over a metre of NACA alt; bone white ab with patches of ep. After the NACA alt around 428m, ca alt halos with minor Kspar, perhaps picked up from a unit further downhole. Gradational lower contacat into strong potassic alt.	99.67	77.33	5	0.1			1	1	2		2	1		
		100.67	95.67												
		97.67	76.33												
		100	97.33	0.2	0				4	2					
		99.33	92	2	0	2	1		1	2		2			
		97.67	81.67												
APXT	431.8 to 437.35m: APXT - Grey to dark grey fine grained andesite crystal tuff. Upper contact is unclear, but py and potassic alt pick up near the contact. Grey and silicified up to 433.7m; no visible phenos, abundant diss py, weak offset in ca stringers. From 433.7m potassic alt becomes more dominant with cl/bi alt and strong mg, ca wash. From 435.4m to contact increase in patchy ca alt in groundmass, no silica and very weak mg.	101.67	86	6	0	1		1				2	1	1	
		100.67	54.67					1				2	1		
DIOR	437.35 to 441.28m: DIOR - Diorite 2. Dark grey to black potassic alt diorite. Protolith texture is obscured by alt, but occasional patches of texture indicate diorite is the protolith; but could also be a mafic dyke. Phenos are brownish green and appear to be pyrox alt by ep and bi and they have thin ca halos around them; if it is a diorite there is no indication of alt plag just alt of mafics. Contacts are not sharp, difficult to determine upper contact and ca flooded shear at lower contact. Mg increases towards contact.	100.67	81	0.5	0	1		1				2	1		
DIOR	441.28 to 446m: DIOR - Diorite 3. Grey diorite. Crowded plag, approx 20% weak ep alt; avg 2mm. Weak pervasive mg. Mafics not visible. Tr silica overprint. Ca flooding and weak shear at upper contact, sharp lower contact.	100	52.33	0.5	0	1				1				1	
		98.33	73												
APXT	446 to 447.95m: APXT - Grey andesite crystal tuff. Tr cl alt, and ca relacement otherwise unaltered. Phenos avg 2mm, 5% hbl which are unaltered, ca alt phenos may have been pyrox. Tr mg. Sharp contacts with diorite.			0.2	0							1	1		
DIOR	447.95 to 449.7m: DIOR - Dark grey potassically alt diorite. Strong alt by cl/bi and mg; mg is patchy but strong. Protolith is obscured, minor ghosty diorite texture, sharp upper contact with andesite and gradational alt contact with lowe diorite. 14cm andesite dyke at 448.27m. At 449m, 1.5cm undulating ca vein parallel tca.	99	59.33	3	0	2		1				1			
DIOR				0.2	0	2			1	2		2			
DIOR	449.7 to 450.86m: DIOR - Diorite 1, altered. Green grey medium graied diorite. Increased cl alt with patchy ep alt. Ep alt seems to preferentially alt the felsics not the mafics. Strong pervasive mg	100.33	96	2	0	2		1		1		2			

Assays: SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	DH Survey: Depth (m)	Azimuth	Dip	Tool
3486539	413	415	0.008	0.2	88.6				
3486541	415	417	0.0025	0.05	73.7				
3486542	417	419	0.005	0.2	207.1				
3486543	419	420	0.0025	0.1	104.6				
3486544	420	422	0.005	0.05	31.2				
3486545	422	423.2	0.007	0.05	28.1				
3486546	423.2	424.4	0.0025	0.05	8.6				
3486547	424.4	426	0.0025	0.05	29.4				
3486548	426	428	0.005	0.05	44.9				
3486549	428	430	0.0025	0.1	113.4				
3486551	430	431.8	0.006	0.1	83.8				
3486552	431.8	433.5	0.105	0.2	66.3				
3486553	433.5	435.44	0.034	0.2	112.3				
3486554	435.44	437.35	0.012	0.2	142				
3486556	437.35	439.3	0.0025	0.1	132.3				
3486557	439.3	441.28	0.008	0.1	107.6				
3486558	441.28	443	0.0025	0.2	142.9				
3486559	443	445	0.005	0.3	164				
3486561	445	446	0.0025	0.2	170.8				
3486562	446	447.95	0.0025	0.1	77.1				
3486563	447.95	449.7	0.02	0.4	298.7				
3486564	449.7	450.86	0.006	0.1	53.7				
3486565	450.86	452.6	0.008	0.4	195				

Depth: 415, 420, 425, 430, 435, 440, 445, 450

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	450.86 to 454.6m: DIOR - Diorite 1. Simlilar to above with stronger cl alt which gradually becomes more potassically alt. Strong mg. Hints of propylitic alt to around 453.7m. Around 454m increase in ca veins, weakly sheared with abundant py. Sharp lower contact.	100.33	96	2	0	2		1		1		2			
455			100	87.33												
	ANTF	454.6 to 463.35m: ANTF - Maific dyke? Dark grey fine grained andesite dyke. Minor ca inclusions and localized intense zones of ca alt. Strong cl alt with possible bi, not magnetic. Sharp upper contact with diorite, lower contact marked by 4cm of ca veining and minor compression.	100	54	4	0			1				2	1		
460			99.67	53.33												
			100	69.67												
465			99.33	44.33												
470			99.33	38												
	DIOR	463.35 to 483.67m: DIOR - Diorite 1. Green propyitic diorite, ep alt of felsics with pervasive cl alt and strong mg. Potassic alt extends into upper contact for 35cm, patch of potassic alt at 465.3-466.4 with 1cm wide pinkish qz vein, D vein, and ca veins at a 20 degree angle tca. Smaller patches of weak potassic alt with ca veinlets and sometimes weak silica.	100.33	73.67	1	0	1				2		2			
475			101	62												
			100	73.33												
480			100	100												
	DIOR	483.67 to 485.15m: DIOR - Dirote 3. Grey w/ patchy light green. med-grained plag-phyric diorite. Crowded plag around 20% and avg 2mm; aphanitic groundmass. Weakly diss py. Sharp contact with diorite above and below.	100	71	0.2	0	1				1		1			
485	DIOR		100	72.67	2	0	1		1		2		2			
			101.33	75.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486565	450.86	452.6	0.008	0.4	195				
3486566	452.6	454.6	0.009	0.4	403				
3486567	454.6	456	0.007	0.2	106.9				
3486568	456	458	0.027	0.4	146.8				
3486569	458	460	0.016	0.6	349.4				
3486571	460	462	0.019	0.2	100.9				
3486572	462	463.35	0.02	0.2	110.4				
3486573	463.35	465	0.005	0.05	57.1				
3486574	465	466.4	0.009	0.05	39.1				
3486575	466.4	468	0.009	0.1	69.7				
3486576	468	470	0.006	0.05	96.5				
3486577	470	472	0.0025	0.05	15.8				
3486578	472	474	0.018	0.3	161.1				
3486579	474	476	0.0025	0.05	11.3				
3486581	476	478	0.005	0.05	27.3				
3486582	478	480	0.0025	0.05	26.5				
3486583	480	482	0.006	0.05	90				
3486584	482	483.67	0.0025	0.05	41.7				
3486585	483.67	485.15	0.005	0.1	110.1				
3486586	485.15	487	0.006	0.05	44.7				
3486587	487	489	0.0025	0.2	61.6				
3486588	489	491	0.006	0.05	50.3				

Legend

Lith Code

DIOR Diorite

ANTF Andesitic Volcanic Rocks: Andesitic tuff

Structure Type

FL Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
DIOR	485.15 to 499.85m: DIOR - Diorite 1. Green and grey diorite. Mostly ep/cl alt with patches of darker grey cl/bi alt. Felsics appear to be alt by ep and mafics by cl. At 490.3-490.66m, silicified section with increase in py; followed by two 3cm qz veins also with increased py. Potassic alt zone at 494.1-495m; weakly sheared at a 30 degree angle tca; 10cm of rubbly gouge back into less alt diorite.
DIOR	499.85 to 504.15m: DIOR - Diorite 1 - Monzodiorite? At 499.85-501.8m silicified contact from diorite above, texture obscured. From 501.8m dark to light green patchy propylitic alt. Ep alt felsics, some plag crystals have maintained their shape, subhedral laths. Some hbl are visible but most mafics are obscured by cl alt. Patchy mg. From around 503.3m stronger potassic alt with patches of qz with py stringers.
DIOR	504.15 to 510m: DIOR - DIOR-2. Dark grey to black potassic alt diorite. Protolith texture is obscured by alt, could also be a mafic dyke. Phenos are brownish green and appear to be pyrox alt by ep and bi and they have thin ca halos around them; if it is a diorite there is no indication of alt plag just alt of mafics. Sharp upper contact with monzodiorite, lower contact is subtle with same all.
DIOR	510 to 511m: DIOR - DIOR-3. Dark grey medium to fine grained diorite; 15% plag avg 2mm. Contacts are not clear as alt is the same as above and below. Marked by compositional dfiferences. Tr mg.
APXT	511 to 521.32m: APXT - Dark grey fine grained andesite crystal tuff. Strong potassic alt, bi/cl and tr mg, with minor ca replacement. Phenos are difficult to see through alt, occasional 2mm pyrox. Around 515m weakly shreared with fine wispy ca stringers. At 516.6m stronger cy content; followed by a raft of QSPC alt monzodiorite. Smaller inclusions of monzodiorite towards contact. 7cm pink qz veins at 519.65m and 520.52m with tr ga. Ca vein at 60 degrees tca marks contact.
DIOR	521.32 to 529.55m: DIOR - DIOR-1/Monzodiorte? Grey with slight greenish tint. Pale grey se or cy alt which looks like silica which is alt felsics. Mafics account for approx 30% and appear anhedral but are obscured by cl alt. From 526.8m rubble zone, weakly cy on frac followed by 3cm pink qz vein at 528m. After vein grey potassic alt to contact obscuring the protolith.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
490	101.33	75.67												
	97	72.33												
495	100	90	2	0	1		1		2		2			FL
	101	89												
500	98	77	4	0	1		1		1		2		3	
505	99	80.33												
	100	72	0.2	0	1		1				2	1		
510	100.67	80.67	0.2	0	1		1				2	1		
515	99	83.33												
	102.67	87.33	5	0	1		1				2	1		
520	100	98												
525	100	37.33	4	0	1					3	2		1	
	91.67	25												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486588	489	491	0.006	0.05	50.3
3486589	491	493	0.0025	0.05	16.4
3486591	493	494.1	0.0025	0.05	19.1
3486592	494.1	495	0.008	0.1	40.1
3486593	495	496	0.0025	0.05	46.1
3486594	496	498	0.005	0.1	101.3
3486596	498	499.85	0.008	0.3	180.6
3486597	499.85	501.8	0.008	0.1	39.8
3486598	501.8	503	0.009	0.2	147.2
3486599	503	504.15	0.006	0.2	151.4
3486601	504.15	506	0.0025	0.1	155.9
3486602	506	508	0.005	0.1	125.3
3486603	508	510	0.005	0.05	118.8
3486604	510	511	0.0025	0.05	123.6
3486605	511	513	0.0025	0.1	134.7
3486606	513	515	0.005	0.05	115.8
3486607	515	517	0.0025	0.1	116.3
3486608	517	519	0.008	0.2	157.5
3486609	519	520	0.01	0.6	207
3486611	520	521.32	0.01	0.3	191.8
3486612	521.32	523	0.009	0.2	166.6
3486613	523	525	0.008	0.3	202.5
3486614	525	527	0.012	0.3	219.1
3486615	527	528	0.013	0.2	134.9

DH Survey

Depth (m)	Azimuth	Dip	Tool
501	104.1	-67.6	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff

Structure Type

- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Depth	Lith Code	Description
	DIOR	521.32 to 529.55m: DIOR - DIOR-1/Monzodiorte? Grey with slight greenish tint. Pale grey se or cy alt which looks like silica which is alt felsics. Mafics account for approx 30% and appear anhedral but are obscured by cl alt. From 526.8m rubble zone, weakly cy on frac followed by 3cm pink qz vein at 528m. After vein grey potassic alt to contact obscuring the protolith.
	DIOR	529.55 to 580.7m: DIOR - DIOR-1, Monzodiorite? Pale green propylitic alt with patchy pale pink Kspar. Crowded plag, approx 25% visible subhedral to euhedral laths alt by ep; anhedral to subhedral mafics, hbl and pyrox, alt by cl. Occasional fine grained mafic dykes that avg 15cm; at 559.6m, 15cm dyke which has texture of DIOR-2 but in this case it is clearly a mafic dyke. 3cm pink qz veins at 539.05m and 548.68m with tr ga and sp. Cl/py and ep veins, 'chlorosulph' veins. Rubble from around 578.5m with increased ep, rubble continues to qz/ca vein at contact.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
91.67	25	4	0	1					3	2		1
101.67	51.67											
94.67	78											
97.67	56											
98.33	68.33											
100.67	82.33											
98	70.33											
100	100	2	0	1	1			2		2		
99.33	87.33											
99.67	99.67											
100	72											
100.67	82.33											
100	88.67											
97.33	80.67											

Structure Type

DYKE
DYKE
DYKE
DYKE
DYKE

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486615	527	528	0.013	0.2	134.9
3486616	528	529.55	0.035	0.3	156.8
3486617	529.55	531	0.009	0.4	291.3
3486618	531	533	0.056	0.5	332.3
3486619	533	535	0.734	0.7	241.6
3486621	535	537	0.07	0.3	190.9
3486622	537	539	0.008	0.4	203.4
3486623	539	541	0.009	0.4	242.2
3486624	541	543	0.012	0.2	200.3
3486625	543	545	0.007	0.1	132.7
3486626	545	547	0.008	0.2	207.2
3486627	547	549	0.006	0.05	108.1
3486628	549	551	0.006	0.1	135.6
3486629	551	553	0.0025	0.1	150.3
3486631	553	555	0.006	0.05	114.8
3486632	555	557	0.009	0.2	166
3486633	557	559	0.01	0.05	86.3
3486634	559	561	0.007	0.1	116.6
3486636	561	563	0.006	0.2	124.2
3486637	563	565	0.008	0.3	95.5

DH Survey

Depth (m)	Azimuth	Dip	Tool
531	105.5	-66.8	Reflex EZ-Trac
561	102.7	-66.6	Reflex EZ-Trac

Legend

Lith Code

DIOR
Diorite

Structure Type

DYKE
Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
DIOR	529.55 to 580.7m: DIOR - DIOR-1, Monzodiorite? Pale green propylitic alt with patchy pale pink Kspar. Crowded plag, approx 25% visible subhedral to euhedral laths alt by ep; anhedral to subhedral mafics, hbl and pyrox, alt by cl. Occasional fine grained mafic dykes that avg 15cm; at 559.6m, 15cm dyke which has texture of DIOR-2 but in this case it is clearly a mafic dyke. 3cm pink qz veins at 539.05m and 548.68m with tr ga and sp. Cl/py and ep veins, 'chlorosulph' veins. Rubble from around 578.5m with increased ep, rubble continues to qz/ca vein at contact.
DIOR	580.7 to 612.55m: DIOR - Grey/green medium grained DIOR-1/Monzodiorite. Qz/ca vein at contact followed by weak shear and frac zone. Within the fracs 5mm anhedral salmon pink Kspar in groundmass, indicating the transition into monzodiorite. Following the rubble zone, grey potassic alt up to 585.5m, with section of pale green monzodiorite from 582.45-582.7m. From 585.5m pale green ep alt plag, approx 30%; plag retains it's shape as 5mm laths. Mafics are anhedral and have been cl alt, they are difficult to see through alt. Minor E veins, approx 1% py/cl/ep veinlets 'chlorosulph' veins. Tr red garnets around 604m. Early qtz vein with silicified halo + chl + hem + mag and locally up to 5% dissem py from 601.3 to 601.9. Sharp lower contact with intense ep alt.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	97.33	80.67											
	101.67	88.67											
570													
	99.33	65											
	98.33	60.67											
575													
	95	41.67											
580													
	99.33	22.67											
	100.67	60											
585													
	100	95											
	101.67	101.67											
590													
	99.67	95											
595													
	101.67	89											
	101.33	94											
600													
	99.33	98											

Pyrite: 2; Chalcopyrite: 0; Magnetite: 1; K-Feldspar: 1; Epidote: 2; Chlorite: 2

Pyrite: 2; Chalcopyrite: 0.05; Magnetite: 1; Epidote: 2; Chlorite: 2

Structure Type: FRZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486637	563	565	0.008	0.3	95.5
3486638	565	567	0.012	0.1	144.6
3486639	567	569	0.006	0.2	152.4
3486641	569	571	0.005	0.1	108.8
3486642	571	573	0.007	0.1	99
3486643	573	575	0.007	0.1	126.1
3486644	575	577	0.006	0.1	107.6
3486645	577	579	0.006	0.1	109.3
3486646	579	580.7	0.007	0.1	130.4
3486647	580.7	582	0.119	0.2	160.7
3486648	582	584	0.016	0.9	253.1
3486649	584	586	0.02	0.3	241.6
3486651	586	588	0.008	0.3	264.1
3486652	588	590	0.01	0.4	367.7
3486653	590	592	0.011	0.3	268.1
3486654	592	594	0.006	0.2	234.5
3486655	594	596	0.009	0.3	274.7
3486656	596	598	0.008	0.3	284.7
3486657	598	600	0.009	0.3	322.3
3486658	600	601.3	0.01	0.8	426.5
3486659	601.3	602	0.012	0.4	444.3
3486661	602	604	0.009	0.3	304.9

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
605	DIOR	580.7 to 612.55m: DIOR - Grey/green medium grained DIOR-1/Monzodiorite. Qz/ca vein at contact followed by weak shear and frac zone. Within the fracs 5mm anhedral salmon pink Kspar in groundmass, indicating the transition into monzodiorite. Following the rubble zone, grey potassic alt up to 585.5m, with section of pale green monzodiorite from 582.45-582.7m. From 585.5m pale green ep alt plag, approx 30%; plag retains it's shape as 5mm laths. Mafics are anhedral and have been cl alt, they are difficult to see through alt. Minor E veins, approx 1% py/cl/ep veinlets 'chlorosulph' veins. Tr red garnets around 604m. Early qtz vein with silicified halo + chl + hem + mag and locally up to 5% dissem py from 601.3 to 601.9. Sharp lower contact with intense ep alt.	99.33	98												
			101	100			1				2		2			
			98.67	98.67	2	0.05										
610			100	94.67							4		2			
			100.67	87												CN
615	MZPP	612.55 to 623.42m: MZPP - Light grey/pink monzonite(?); or altered diorite; weak porphoritic texture defined by kspar phenos; rock is made up of ~30% mg kspar + 10% grey qtz + 40% mafics altered to chl + ~7% very fg mag overprinted by hem alteration + 10% pervasive calcite alteration; ~1-2% late calcite stringers, trace chl-sulph stringers, one 4cm wide qtz-mag vein with very fg cp and py dissems @ 617.15cm; 2% fg dissems throughout associated with mag/hem/chl alteration; sharp upper and lower contacts														VN
			99.33	88												
					2.5	0.1	2	3					2	2		VN
620			100.33	97												
			97	87												
																CN
625	FALT	623.42 to 627.1m: FALT - Dark to light grey shear zone with sharp upper and lower contacts @ shallow angle (20 deg) TCA; protolith unknown relict texture of mg crystals (now chl+calcite+clay) could suggest diorite-1 protolith?; top 1/3 of interval is early qtz vein parallel TCA (from 623.54m-624.65; euhedral specular hematite crystals and fg seams of spec hem occur throughout vein (altered magnetite?? originally qtz-mag high temp vein with retrograde alteration?); pervasive QSP overprinting relict potassic (biotite+mag); both QSP and KPOT are overprinted with pervasive calcite-chlorite and patches of gouge/clay alteration; weakly brecciated texture @ 625m with broken fragments of e veins; 7-10% fg py dissems throughout; cg py crystals in qtz veins rimmed with spec hem; trace fg cpy in biotite alteration; trace honey sphalerite @ wallrock/vein contacts	101.33	93.33	10	0.05	1		2			3	4	3	2	
	ANDS		101.33	100.33			2		2				4	3		
630		627.1 to 633.2m: ANDS - Dark grey/green fine-grained andesite(?); extremely soft and reactive with acid; relic wk to mod bt-mag alteration overprinted by pervasive calcite + chl alteration +/- mm scale seams of clay gouge perpendicular TCA; calcite-pyrite-hematite stringers throughout (2-3%); trace py dissems with 0.5% py in cal-hem stringers; very trace cp specs assoc with bitoite	99.67	86.33	0.5	0							4	4		
	DIOR	633.2 to 639m: DIOR - DIOR-1, Green propylitic diorite; pervasive weak mg with Ep alt felsics and Cl alt mafics; occasional patches and veinlets of ab perpendicular TCA. Ca veining increases around 636.7m wth patchy white qz + mm seams of spec hem + cg pyrite with cp(?). Graditional upper and lower contacts obscured by alteration.	102.67	99.67	0.5	0	1			2	3		3			
635			100	92												
	DIOR	639 to 640.9m: DIOR - Dark grey/black sheared, strongly altered, and mineralized zone; DIOR-2(?) texture obscured but some visible epd altered plag phenos; biotite+mag assemblage overprinted by calcite+chl with fg illmenite(?) overprinting mafics;	95.67	90.33	5	0				2	4		4			

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3486661	602	604	0.009	0.3	304.9				
3486662	604	606	0.008	0.2	154.7				
3486663	606	608	0.007	0.1	156.5				
3486664	608	610	0.005	0.2	239				
3486665	610	611	0.026	0.1	134.8				
3486666	611	612.55	0.009	0.3	226.6				
3486667	612.55	614	0.014	0.2	168				
3486668	614	616	0.02	0.2	200.5				
3486669	616	618	0.005	0.5	168.3				
3486671	618	620	0.009	0.3	162.6				
3486672	620	622	0.01	0.2	156.1	621	110.9	-65.8	Reflex EZ-Trac
3486673	622	623.42	0.012	0.2	176.7				
3486674	623.42	625.1	0.034	7.5	85.6				
3486676	625.1	627.1	0.039	0.9	97.1				
3486677	627.1	628.7	0.006	0.4	283.6				
3486678	628.7	630.2	0.0025	0.1	165.4				
3486679	630.2	632	0.008	0.3	341.4				
3486681	632	633.2	0.011	0.2	312.1				
3486682	633.2	635	0.012	0.4	422.9				
3486683	635	637	0.019	0.7	868.3				
3486684	637	639	0.009	0.4	530.3				
3486685	639	640.9	0.007	1.2	463.6				

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- FALT — Fault
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- CN — Contact
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
DIOR	639 to 640.9m: DIOR - Dark grey/black sheared, strongly altered, and mineralized zone; DIOR-2(?) texture obscured but some visible epd altered plag phenos; biotite+mag assemblage overprinted by calcite+chl with fg illmenite(?) overprinting mafics; strong foliation/shear developed @ 30-40 deg TCA from 640.2 to 640.9m; 6% early qtz veins with galena and sph? 5-7% py dissem throughout
DIOR	
DIOR	640.9 to 643.4m: DIOR - DIOR-1; green with strong epd alteration of felsics and chl alteration of mafics; wk patch primary mag; wk patchy white to light pinkish albite alteration (IPRO); <1% calcite stringers; trace py dissems;
MZPP	643.4 to 643.9m: DIOR - DIOR-2; strongly altered fg diorite(?); alteration obscures texture but ~5-7% 'ghost' fg-mg epd+qtz phenos; 2% fragmented early qtz veins with spec hem ribboning (altered mag?); 2% epd stringers and up to 5% chaotic late calcite stringers; 10% fg py dissems; gradational upper and lower contacts
MZPP	643.9 to 653.85m: MZPP - Dark grey/brown strongly altered monzonite to monzodiorite with patches of DIOR-1 @ upper contact; patches of relict porphyry texture preserved with ~25% kspar phenos; wk to moderately developed foliation throughout (30-50 deg TCA) strongest at UC; very hard with grey silica flooding thoughout; >40% strong biotite-mag alteration of groundmass; 2-3% calcite stringers some with mg py dissems; large qtz vein drilled at shallow angle TCA from 652.2-653m with trace py+spec hem+wallrock inclusions; up to 5% py dissems associated with biotite and trace py w/ calcite stringers
ANDS	653.85 to 669.2m: ANDS - Dark grey strongly altered and veined interval; softer and more fine-grained than overlying and underlying intrusive units; strong alteration and overprints makes it difficult to distinguish protolith; 50cm wide patches of weakly developed breccia texture, could be preferential alteration of clasts within volcaniclastic??; consists of ~35% calcite + 35% chl + 15% ser + 15% biotite +/- 5% patchy sil; Mafic volcanic, dyke or DIOR-2(?); QSPC overprinting KPOT, NO MAG; significant qtz veining @ shallow angle TCA (10-20 deg) totaling 5.4m of interval (35%) from 661 to 669m; qtz veins are cross-cut by cal stringers with fg py dissem, wallrock inclusions, and trace splashy gal+sph+cp?; garnet in vein selvage @ 661.3m (or silicified hem alteration)?; 10% fg py dissems throughout with fg-mg py diseems in calcite stockwork @ lower contact; increased pyrite in qtz vein selvages
DIOR	669.2 to 680.12m: DIOR - Dark grey/black strongly altered mg diorite; wkly foliated texture; no mag; fairly soft unit with strong biotite + chl alteration with wk pervasive calcite + grey silica flooding; relict phenos are strongly chl altered with lesser qtz phenos; trace hem + gouge on fracture planes; early qtz veins from 675.77 to 676.87 m wiith trace ggalena @ 25-30 deg TCA 3-5cm wide; 3% calcite stringers perpendicular TCA; 7% fg-mg py dissems throughout increased in vein selvages; py also occurs in some calcite stringers; gradational upper and lower contacts

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	95.67	90.33	5	0				2	4		4		
			0.2	0									
	99.67	99.67	10	0	3		4					3	
	101	97.33											
	98.33	97.33	5	0	3		4						4
	100.33	79.33											
	100.33	60.67											
	104	56											
	103	60	10	0.05			3			3	4	4	2
	100	83.33											
	101	72.67											
	96.33	87											
	99	89	7	0			4				4	3	2
	101.33	91.67											

Depth scale: 645, 650, 655, 660, 665, 670, 675

Structure Type

VN, FO, FO, FO, CN, CN, CN, BX, VN, VN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486685	639	640.9	0.007	1.2	463.6
3486686	640.9	642	0.008	0.3	392.8
3486687	642	643.4	0.015	0.5	665.8
3486688	643.4	643.9	0.007	0.6	579.5
3486689	643.9	645	0.012	0.7	557.3
3486691	645	647	0.005	0.3	236.2
3486692	647	649	0.0025	0.3	308.4
3486693	649	651	0.0025	0.2	267.1
3486694	651	652	0.006	0.2	310
3486695	652	653.85	0.006	0.5	233.8
3486696	653.85	655	0.01	0.4	356.4
3486697	655	657	0.007	0.9	142.7
3486698	657	659	0.0025	0.2	236.7
3486699	659	661	0.005	0.2	174.6
3486701	661	663	0.0025	0.9	40.4
3486702	663	665	0.006	0.8	159.7
3486703	665	667	0.005	1.2	88.4
3486704	667	668	0.006	3.5	228
3486705	668	669.2	0.006	0.8	155.8
3486706	669.2	671	0.0025	0.2	190.3
3486707	671	673	0.0025	0.2	170.7
3486708	673	675	0.0025	0.2	196.1
3486709	675	677	0.008	0.7	165
3486711	677	678	0.0025	0.2	161.4

DH Survey

Depth (m)	Azimuth	Dip	Tool

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- VN — Vein
- FO — Foliation
- CN — Contact
- BX — Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Lith Code	Description
DIOR	669.2 to 680.12m: DIOR - Dark grey/black strongly altered mg diorite; wkly foliated texture; no mag; fairly soft unit with strong biotite + chl alteration with wk pervasive calcite + grey silica flooding; relict phenos are strongly chl altered with lesser qtz phenos; trace hem + gouge on fracture planes; early qtz veins from 675.77 to 676.87 m wiith trace ggalena @ 25-30 deg TCA 3-5cm wide; 3% calcite stringers perpendicular TCA; 7% fg-mg py dissems throughout increased in vein selvages; py also occurs in some calcite stringers; gradational upper and lower contacts
DIOR	680.12 to 688m: DIOR - DIOR-1; green/black dominately OPRO diorite with weak to moderate KPOT overprint; very wk patchy foliation; epd alteration of plag with strong chl +/- biotite alteration of mafics; wk patchy mag and wk patchy pervasive calcite; actinolite/tremolite vein 3 cm @ 680m with sphalerite and 4c wide early qtz vein @ 687m; pyrite concentration increases @ vein/wallrock contacts; <1% chl-sulph stringers (low angle) cross-cutting calcite stringers (perpendicular TCA); up to 3% fg-mg py dissems assoc w/mafics and calcite/chl stringers; graditional UC and LC;
DIOR	688 to 698.7m: DIOR - DIOR-1; green OPRO diorite; epd of plag and chl of mafics; patchy wk mag; <1% chl-py stringers parallel TCA; <1% calcite stringers perpendiclar TCA; <1% py assoc with chl (stringers and groundmass); gradational UC and sharp LC with shear/mafic dyke zone
DIOR	698.7 to 700.2m: DIOR - Light grey wk-mod shear (diorite protolith) with 2 dark mafic aphanitic dykes with sharp to undulating contacts; unit is ~60% mafic dykes and ~40% sheared and altered diorite; dykes are unaltered except for mod pervasive calcite alteration; sheared diorite is strongly silica flooded and QSPC altered; ~1% (2cm) fragmented early veins (weak boudinage texture) in both diorite and mafic dykes; 2% py dissems more fg in mafic than diorite, increased concentration @ UC; upper contact with OPRO DIOR-1 is 60 TCA; weak calcite cemented hybx-3 in mafic dyke @ LC
DIOR	700.2 to 705.26m: DIOR - DIOR-1; green, massive to very wk fol defined by chl; epd of plag and strong chl of mafics; patchy mag; large qtz vein from 702.18-702.66m @15 deg TCA (exaggerated width); local QSPC alteration @ vein selvages; trace py dissems; gradational contacts;
MZPP	705.26 to 711.65m: MZPP - Light pink/grey monzodiorite? or alteration of diorite?; wk KPOT - kspar alteration of plag with wk biotite; unit is ~50% kspar+white plag with strongly chl altered groundmass +/- biotite; sharp contacts with 1m-wide mafic dyke from 707.6 to 708.6m; dyke is strongly magnetic with very weak shear (is this the protolith of biotite-mag shears DIOR-2?); 1-2% py dissems assoc with chl and <1% fg py stringers with trace cp; 2-3% late calcite veinlets
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
669.2	101.33	91.67	7	0			4				4	3	2
680	101	98.67											
	98	98	3	0			2		3		5	2	
685	101.67	101.67											
	98	98											
690	95.67	94.67											
	94.33	94.33	1	0	1				4		4		
695	106.67	104											
700	102.33	93	2	0	2					2			3
	98.33	87	0.5	0					4		4		
705	102.67	102.67											
	100.33	96.33	2	0		3	2				4	2	2
710	99.67	99.67						1	3	1	4	2	2
	99.33	99.33	0.5	0									
715													

Structure Type: VN (3486718); CN (3486726); VN (3486728); CN, DYKE, CN (3486733)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486711	677	678	0.0025	0.2	161.4
3486712	678	680	0.006	0.2	166.2
3486713	680	681.5	0.0025	0.2	155
3486714	681.5	683	0.0025	0.2	168.3
3486716	683	684	0.005	0.2	150
3486717	684	686	0.012	0.2	184
3486718	686	688	0.006	0.6	209.5
3486719	688	690	0.0025	0.1	118.2
3486721	690	692	0.0025	0.2	139.3
3486722	692	694	0.144	0.2	141.4
3486723	694	696	0.005	0.1	125
3486724	696	697	0.006	0.2	118.5
3486725	697	698.7	0.005	0.1	138.6
3486726	698.7	700.2	0.005	0.2	165.9
3486727	700.2	702	0.0025	0.1	180.5
3486728	702	704	0.0025	0.2	141.7
3486729	704	705.26	0.0025	0.1	143.8
3486731	705.26	706.5	0.005	0.1	163.6
3486732	706.5	707.6	0.009	0.2	143.7
3486733	707.6	708.6	0.0025	0.2	76
3486734	708.6	710.5	0.009	0.5	175.5
3486735	710.5	711.65	0.006	0.2	149.6
3486736	711.65	713	0.006	0.2	152.7
3486737	713	715	0.006	0.2	145.8
3486738	715	717	0.007	0.3	144.8

DH Survey

Depth (m)	Azimuth	Dip	Tool
681	110.3	-64.9	Reflex EZ-Trac
711	117.6	-64.7	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- VN — Vein
- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-029	Max	735	17-Jun-2020	24-Jun-2020	433142.031	6086612.282	1233.063	89.9	-65.4	NQ	Bethany Duff	

Purpose

Targeting central diorite (Porphyry Target B) - Intrusive unit (diorite?) associated with very shallowly west dipping resistivity high from 70 to 250 m. Bracketed by yellow intermediate resistivity (altered volcanics or intrusives?); Chargeability low from 0 to 140m and moderate chargeability from 140m to EOH; In between Geophysics Lines 6800N, 6400N

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Lithology

Depth	Lith Code	Description
	DIOR	711.65 to 722.75m: DIOR - DIOR-1; green OPRO diorite; massive texture; epd of plag and chl of mafics; no mag; 4% late calcite +/- qtz veins with well defined chl +/- QSPC vein halos; host locally up to 1% py dissems in halos; this vein set is @ 45 deg tca; set of chl-py stringers subparallel TCA thoroughout (<1%); gradational UC, sharp LC
720	ANDS	722.75 to 725.45m: ANDS - MAFIC DYKE - lith code needs to be replaced; interval is 70% two large mafic aphanitic dykes with 30% weakly-mod QSPC altered diorite overprinting OPRO; dykes occur fro 722.75 to 723.68m and 724.5 to 725.45 m. Dykes are weakly magnetic with chl-calcite assemblage; wk foliation developed @ 724.7m with 5cm band of grey early qtz veinlets parallel to fol; trace fg py dissems throughout; Sharp contacts @50 to 65 deg TCA.
725	DIOR	725.45 to 735m: DIOR - DIOR-1; Green with massive texture; epd alteration of plag and chl alteration of mafics; OPRO patches of strong epd veining from 729-730m (2%); albite occurs in selvages of chl-py stringers (<1%); second type of stringers ep-py with chl halos; trace py dissems and in epd+/- chl stringers; one 1 cm qtz veins with trace sph, py @ upper contact with dykes; trace py dissems throughout hosted by stringers . EOH
730		

Geotechnical / Mineralisation / Alteration Mineral Intensity

Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
99.33	99.33	0.5	0				1	3	1	4	2	2
100.33	100.33											
99.67	99.67											
100.67	99									4	3	2
100.67	100.67	0.5	0				2	4		3		
100.67	100.67											
99.33	99.33											

Structure Type

Structure Type
CN
CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3486738	715	717	0.007	0.3	144.8
3486739	717	719	0.007	0.2	147.6
3486741	719	721	0.007	0.2	148.3
3486742	721	722.75	0.006	0.3	127.1
3486743	722.75	723.68	0.006	0.1	141.9
3486744	723.68	724.5	0.007	0.2	127.4
3486745	724.5	725.45	0.006	0.2	165
3486746	725.45	727	0.0025	1.2	132.6
3486747	727	729	0.0025	0.1	124.5
3486748	729	731	0.0025	0.1	95.7
3486749	731	733	0.005	0.2	124.5
3486751	733	735	0.006	0.2	153.9

DH Survey

Depth (m)	Azimuth	Dip	Tool
732	110.9	-64.5	Reflex EZ-Trac

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

Drilling targeted the inferred porphyry "Ring Anomaly/M16" geophysics target, in the central portion of the anomaly. On cross-section the DDH collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260m. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
0–9		0 to 9m: NCOR - <1% recovery -- overburden	98	0												
9–20.76	DIOR	9 to 20.76m: DIOR - DIOR-1. salt-pepper grey-green and white. locally mod-brk with limonite oxidation along fracture planes (near-surface ox'd). intermittent < 50cm rubbly intervals -- no core degraded into clay/soil. Medium-grained salt&pepper diorite. ~50/50 mafic/felsic ratio. mafics are 1-3mm anhedral-subhedral chloritized hornblendes. felsic phenos are 1-3mm subhedral plagioclase. mod mag. patchy epidote alteration and as P-type stringers and assoc halos & fracture halos. pyrite as fg-mg dissems and clots < 3mm +/- trace discontinuous stringers < 2mm	53.33	7.33	0.1	0	3			1	3		3			FRZ
			89.33	38												
			95.67	39.33												FRZ
			90	33.67												
20.76–30.48	DIOR		100	70	0.5	0	3				3		3		2	
			96.67	88.67												
			103.67	100.33												VN
			100.33	84												
			101.33	87.33												VN
			97	89.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508001	9	11	0.057	2.55	703
3508002	11	13	0.061	0.66	368
3508003	13	15	0.088	0.83	498
3508004	15	17	0.112	1.97	494
3508005	17	19	0.04	1.08	397
3508006	19	20.76	0.06	0.83	644
3508007	20.76	23	0.033	0.45	358
3508008	23	25	0.052	0.5	423
3508009	25	27	0.038	0.54	430
3508011	27	29	0.033	0.33	310
3508012	29	31	0.035	0.31	300
3508013	31	33	0.061	0.43	365
3508014	33	35	0.144	0.67	561
3508016	35	37	0.05	0.28	248
3508017	37	39	0.06	0.53	382

DH Survey Depth (m)	Azimuth	Dip	Tool
0	90.8	-62.3	Reflex EZ-Gyro
15.24	90.71	-62.16	Reflex EZ-Gyro
30.48	90.11	-62.16	Reflex EZ-Gyro

Legend

Lith Code

- NCOR — No core/lost core
- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

Drilling targeted the inferred porphyry "Ring Anomaly/M16" geophysics target, in the central portion of the anomaly. On cross-section the DDH collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260m. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

MOUNTMILLIGAN

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Lithology

Lith Code	Description
DIOR	20.76 to 60m: DIOR - DIOR-1. grey-green & white. medium-grained hbl-plag phyric salt-pepper diorite porphyry. ~50/50 mafic/felsic ratio. mafics are 1-3mm anhedral-subhedral hornblende phenos. felsics are 2-3mm subhedral plagioclase phenos. weak-moderate patchy epidote as halos to fracts and p-type strgrs/vlets. chlorite as partial repl of hbl phenos. ~5% medium-grained magnetite disseminated throughout. weak pyrite mineralization as sparse dissems and trace discontinuous stringers < 3mm (T3?). trace L2 veins. P2 vlets/strgrs common.
DIOR	60 to 74.35m: DIOR - DIOR-1? dark green. med-grained salt-&-pepper plag-hbl pyric diorite. ~30% 2-4mm subhedral to euhedral plag laths. ~50% 1-2mm subhedral to anhedral mafics (hbl?). ~5% 1-3mm equant magnetite grains. mafics partially repl by biotite (2nd). dark-green alteration = fine-grained actinolite repl? calc-potassic (bt-mag-act) alteration overprinted by propylitic (ep+/-chl) ?. 0.5% fg pyrite dissems. P-type vlets/strgrs common. trace E-veining (qz+/-kf).
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
40	97	89.67											
	98.33	81.33											
	100	93											
45	102	100.33											
	102.67	100	0.5	0	3				3		3		2
50	101	98.33											
55	99.33	93											
	99.67	93.67											
60	100.33	88											
	96.67	83.67											
65	99.33	88	0.5	0	3	3			3			2	
70	100.67	92											
	99.67	53.33											
75	98.33	54.33	2	0	2				3		2		3

Structure Type

Depth	Structure Type
45	VN
60	VN
70	VN
70	FL
75	CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508017	37	39	0.06	0.53	382
3508018	39	41	0.03	0.51	358
3508019	41	43	0.039	0.51	328
3508021	43	45	0.031	0.42	290
3508022	45	47	0.048	0.68	349
3508023	47	49	0.045	0.61	473
3508024	49	51	0.051	0.45	340
3508025	51	53	0.046	0.49	394
3508026	53	55	0.044	0.38	307
3508027	55	57	0.043	0.3	240
3508028	57	58.5	0.054	0.35	318
3508029	58.5	60	0.023	0.41	207
3508031	60	62	0.028	0.48	341
3508032	62	64	0.016	0.51	351
3508033	64	66	0.038	0.45	340
3508034	66	68	0.028	0.29	269
3508035	68	70	0.04	0.34	312
3508036	70	72	0.029	0.83	326
3508037	72	74.35	0.039	0.31	310
3508038	74.35	76	0.025	0.27	220

DH Survey

Depth (m)	Azimuth	Dip	Tool
45.72	91.22	-62.17	Reflex EZ-Gyro
60.96	92.8	-61.94	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- VN — Vein
- FL — Fault
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

Drilling targeted the inferred porphyry "Ring Anomaly/M16" geophysics target, in the central portion of the anomaly. On cross-section the DDH collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260m. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	74.35 to 108.84m: DIOR - DIOR-1. green-grey medium-grained salt-&-pepper hbl-plag diorite. 25-40% 1-2mm anhedral-subhedral mafics (hbl). 30-50% 1-2mm anhedral to subhedral feldspar (plag) phenos. Propylitic alteration as patchy epidote (ep also as fract/p-strgr halo), partial repl of mafics to chl, and trace hematite along fracture planes. patchy silica overprint. wk-mod mag throughout. intermittent mod-hi brk zones < 50cm. P-style strgrs/vlets common. trace late veining.
APXT	108.84 to 111.64m: APXT - UC 40CA. green. medium-grained px-hbl phyric andesite crystal tuff. 20-25% 2-4mm subh-euhedral px/hb phenos in vfg ash tuff matrix. patchy mod epidote-chl alteration of ash matrix and as fract halos. two occurences of <1.5cm diorite dykelets(?) -- cream white with green crystals (hbl +/- act?). vfg pyrite dissems
MZPP	111.64 to 113.1m: MZPP - UC 60CA. Light green/white. medium-grained plag-phyric monzonite. 30-50% 3-5mm subhedral plagioclase laths. 5-10% coarse hornblendes partially repl by mag/bt. OPRO alt as moderate epidote patches and

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	0 100	0 100	0 10	0 5										
	98.33	54.33												
	98.67	77.33												FRZ
80	97.67	66.67												FRZ
85	101.33	81.67												
	100	49												
90	96.33	28	2	0	2				3		2		3	FRZ
	91	51.67												
95	100	68												
	100.67	76												
100	101	67												
105	93.33	72.33												
	108	77.33												
110			0.3	0	2				3		2	2		
	98.67	57.67												CN
			0.5	0	2		2		3		2			

Assays / DH Survey

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508038	74.35	76	0.025	0.27	220	76.2	91.91	-61.77	Reflex EZ-Gyro
3508039	76	78	0.012	0.12	181				
3508041	78	80	0.014	0.23	178				
3508042	80	82	0.025	0.25	221				
3508043	82	84	0.021	0.24	208				
3508044	84	86	0.013	0.23	148				
3508045	86	88	0.014	0.23	152				
3508046	88	90	0.017	0.58	197				
3508047	90	92	0.017	0.29	141	91.44	91.33	-61.73	Reflex EZ-Gyro
3508048	92	94	0.014	0.46	209				
3508049	94	96	0.017	0.43	202				
3508051	96	98	0.007	0.17	144				
3508052	98	100	0.009	0.37	258				
3508053	100	102	0.01	0.24	222				
3508054	102	104	0.009	0.17	157				
3508056	104	105.5	0.009	0.18	119				
3508057	105.5	107	0.008	0.25	212	106.68	91.06	-61.66	Reflex EZ-Gyro
3508058	107	108.84	0.007	0.51	204				
3508059	108.84	110.24	0.011	0.37	313				
3508061	110.24	111.64	0.005	0.37	218				
3508062	111.64	113.1	0.0025	0.32	209				

Legend

Lith Code

- DIOR — Diorite
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- FRZ — Fracture Zone
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

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MOUNTMILLIGAN

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Lithology

Lith Code	Description
MZPP	111.64 to 113.1m: MZPP - UC 60CA. Light green/white. medium-grained plag-phyric monzonite. 30-50% 3-5mm subhedral plagioclase laths. 5-10% coarse hornblendes partially repl by mag/bt. OPRO alt as moderate epidote patches and halos to fractures. pyrite as weak dissems and fract fill. <1% late carb vlets & p-strgrs.
APXT	113.1 to 125m: APXT - UC 60CA. grey-green. medium-grained px-hbl phyric andesite crystal tuff. 20-25% 2-4mm subh-euhedral px/hb phenos in vfg ash tuff matrix. patchy mod epidote-chl alteration of ash matrix and as fract halos. vfg pyrite dissems. DIOR-1 dyke @ 116.29-116.65m. gradational lower contact.
ANDS	125 to 132m: ANDS - silicified andesite pacakge? med-dark grey. texturally obscured by strong pervasive silica alteration. interval has significant mod-str broken segments -- angular to subangular 2-5cm fragments. no gouge noted. 3-5% fine-grained pyrite dissems. mod-strong hairline fracturing with carb+/-ep cement.
ANTF	132 to 145.66m: ANTF - grey-green. fine-grained andesite tuff to crystal tuff -- generally massive w/ localized <5% 1-2mm plagioclase crystals. mod-highly fractured with ep-carb+/-chl infill. ep-chl halos to late carb veining. fine-grained pyrite dissems. @141.50-145m, low-angle (<10 degrees tca) veins of white-pink carb noted -- upto 1.5cm thick with blebs of orange-carb (Fe +8%).
DIOR	145.66 to 150.7m: DIOR - DRPD?. med-coarse grained plag-phyric intrusive. 20-35% 2-5mm plag laths in dark grey-green aphanitic groundmass. porphyritic to locally glomerophyric. texturally similar to DRPD units in MTM with a notable lack of zoned plagioclase phenocrysts. upper contact is very gradational. Lower contact is approx 10-15 degrees (low-angle to core axis). mod-str mag. local vfg pyrite dissems.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
111.64–113.1	98.67	57.67	0.5	0	2		2		3		2		
113.1–115	99.33	68.33											
115–117	95	61											
117–119			0.5	0	3				3		3		
119–121	96.67	55.33											
121–123													
123–125	103.67	74.33											
125–127	101.33	64.67											
127–129			3	0					2		1	3	4
129–130.5	91	25.67											
130.5–132													
132–134	98.33	68											
134–136	94.33	54.33											
136–138													
138–140	94.33	53.67	3	0					3		3	2	2
140–142	101.33	48											
142–144													
144–145.66	98	82											
145.66–147	98.33	60	2	0					1		2	2	
147–150.7	99.33	77.33											

Structure Type

Structure Type	Depth
CN	111.64
DYKE	113.1
DYKE	116.29
FRZ	127

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508062	111.64	113.1	0.0025	0.32	209
3508063	113.1	115	0.0025	0.26	212
3508064	115	117	0.014	0.35	214
3508065	117	119	0.018	0.37	189
3508066	119	121	0.021	0.34	222
3508067	121	123	0.0025	0.27	236
3508068	123	125	0.007	0.35	287
3508069	125	127	0.015	0.39	232
3508071	127	129	0.021	0.47	165
3508072	129	130.5	0.009	0.39	222
3508073	130.5	132	0.05	0.38	136
3508074	132	134	0.019	0.33	191
3508075	134	136	0.015	0.33	169
3508076	136	138	0.022	0.72	191
3508077	138	140	0.013	0.36	192
3508078	140	142	0.02	0.56	243
3508079	142	144	0.065	2.34	188
3508081	144	145.66	0.037	2.33	296
3508082	145.66	147	0.014	0.54	166
3508083	147	149	0.015	0.5	122
3508084	149	150.7	0.007	0.51	156

DH Survey

Depth (m)	Azimuth	Dip	Tool
121.92	91.88	-61.69	Reflex EZ-Gyro
137.16	91.75	-61.71	Reflex EZ-Gyro

Legend

Lith Code

- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- APXT — Andesitic Volcanic Rocks: Px andesite crystal tuff
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- ANTF — Andesitic Volcanic Rocks: Andesitic tuff
- DIOR — Diorite

Structure Type

- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

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MOUNTMILLIGAN

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Lithology

Lith Code	Description
DIOR	145.66 to 150.7m: DIOR - DRPD?. med-coarse grained plag-phyric intrusive. 20-35% 2-5mm plag laths in dark grey-green aphanitic groundmass. porphyritic to locally glomerophyric. texturally similar to DRPD units in MTM with a notable lack of zoned plagioclase phenocrysts. upper contact is very gradational. Lower contact is approx 10-15 degrees (low-angle to core axis). mod-str mag. local vfg pyrite dissems.
ANDS	150.7 to 164.1m: ANDS - UC 10CA. medium green. fine to medium grained andesitic volcanics (xtal tuffs +/- flows?). texture is fairly obscured. local 1-3mm subh plag-hbl phenos. local 3-5mm subh-euhedral pyroxene phenos. patchy ep-chl+/-carb mostly as halos to fracts and p-strgrs. wk-mod silica overprint. 1-2% vfg pyrite dissems. P-type stringers common. <0.5% carb vlets/strgrs
DIOR	164.1 to 167.9m: DIOR - MAFIC DYKE (Hornblendite). dark green. med-coarse grained hornblende porphyry. 20-35% 3-6mm subhedral to euhedral hornblende phenos partially repl by bt. 3-5% magnetite grains 1-2mm. aphanitic dark-green groundmass. weak opro as ep fract coating and halos to fracts and weak p-veining. raft of andesite hostrock @ 165.9-166.35m. trace py dissems. P-strgrs <1%
ANDS	167.9 to 181.5m: ANDS - Medium green. fine to medium grained andesitic volcanics (xtal tuffs +/- flows?). texture is fairly obscured. local 1-3mm subh plag-hbl phenos. local 3-5mm subh-euhedral pyroxene phenos. patchy ep-chl+/-carb mostly as halos to fracts and p-strgrs. mod silica overprint. ~1% vfg pyrite dissems and trace strgrs assoc w/ carb-chl (L2). P-type stringers common. 3-5% carb vlets/strgrs
MZPP	181.5 to 183.9m: MZPP - diorite??? green. med-grained intrusive. pheno-crowded. 35-45% 2-5mm euhhedral plagioclase laths,~5% equant subhedral alkali fsp, ~10% 4-6mm subhedral hornblende (no obvious pyroxenes, but if they are present this unit would be a pyroxene-phyric andesite flow or diorite). Aphanitic groundmass. epidote-chlorite fracture and vein halos to P/L veining
ANDS	183.9 to 189.63m: ANDS - UC 20CA. Medium green. fine to medium grained andesitic volcanics (xtal tuffs +/- flows?). texture is fairly obscured. local 1-3mm subh plag-hbl phenos. local 3-5mm subh-euhedral pyroxene phenos. patchy ep-chl+/-carb mostly as halos to fracts and p-strgrs. mod silica overprint. <1% vfg pyrite dissems and trace strgrs assoc w/ carb-chl (L2). 2-4% carb vlets/strgrs (runs along core axis). p-strgrs ~1%. chl-ep halos to strgrs

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
145.66–150.7	99.33	77.33	2	0					1		2	2	
150.7–155	99.33	87.67											
155–160	100	84	2	0	2				3		2	2	2
160–165	99.33	94.67											
165–170	100	86.33											
165–170	100	64.33	0.1	0	3				2		1	1	
170–175	97.67	69											
170–175	102	71											
175–180	100.33	99.33	1	0	2				3		2	2	3
175–180	100	87.67											
180–183.9	98	98											
183.9–189.63	100.33	87.33	0.5	0	3				3		3	2	
183.9–189.63	99	76.33	1	0	3				2		3		3
183.9–189.63	99	84.67											

Structure Type

CN, DYKE, CN, DYKE, CN, DYKE, CN, CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508084	149	150.7	0.007	0.51	156
3508085	150.7	153	0.031	0.82	366
3508086	153	155	0.012	0.38	218
3508087	155	157	0.022	0.48	247
3508088	157	159	0.031	0.47	204
3508089	159	161	0.006	0.37	241
3508091	161	162.55	0.011	0.31	193
3508092	162.55	164.1	0.008	0.41	235
3508093	164.1	166	0.005	0.28	182
3508094	166	167.9	0.01	0.32	258
3508096	167.9	170	0.0025	0.31	233
3508097	170	172	0.006	0.37	289
3508098	172	174	0.007	0.41	266
3508099	174	176	0.007	0.45	241
3508101	176	178	0.009	0.73	220
3508102	178	180	0.01	0.28	229
3508103	180	181.5	0.011	0.28	249
3508104	181.5	183.9	0.013	0.41	372
3508105	183.9	186	0.0025	0.64	408
3508106	186	188	0.013	0.75	440
3508107	188	189.63	0.0025	0.4	302

DH Survey

Depth (m)	Azimuth	Dip	Tool
152.4	92.28	-61.87	Reflex EZ-Gyro
167.64	93.03	-61.85	Reflex EZ-Gyro
182.88	92.34	-61.87	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

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MOUNTMILLIGAN

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Lithology

Lith Code	Description
ANDS	183.9 to 189.63m: ANDS - UC 20CA. Medium green. fine to medium grained andesitic volcanics (xtal tuffs +/- flows?). texture is fairly obscured. local 1-3mm subh plag-hbl phenos. local 3-5mm subh-euhedral pyroxene phenos. patchy ep-chl+/-carb mostly as halos to fracts and p-strgrs. mod silica overprint. <1% vfg pyrite dissems and trace strgrs assoc w/ carb-chl (L2). 2-4% carb vlets/strgrs (runs along core axis). p-strgrs ~1%. chl-ep halos to strgrs.
DIOR	189.63 to 192.1m: DIOR - UC 20CA. DIOR-1. green and white. medium-grained salt-&-pepper hbl-plag diorite. 25-40% 2-3mm anhedral-subhedral mafics (hbl). 30-50% 2-4mm anhedral to subhedral feldspar (plag) phenos. Propylitic alteration as patchy epidote (ep also as fract/p-strgr halo), partial repl of mafics to biotite and chl. mod mag throughout. P-style strgrs/vlets <1%. trace late veining. single occurence of E-veining (QZ) @ bottom contact.
ANDS	192.1 to 225.23m: ANDS - grey-green. fine-grained andesitic volcanics/pyroclastics? generally massive and lacks texture -- local <15% subhedral plagioclase phenos 2-3mm. intermittent non-mineralized DIOR-1 dykelets and dykes 2cm to 1.5m. DIOR-1 dykes do not have a consistent contact angle with andesite hostrock (see structure tab). OPRO alteration as ep halos to fractures and P/L-stringers and vlets. fine-medium grained pyrite 1-2% (locally 4-5%). P strgrs common. <1% L veining. Trace E veining as < 3mm sporadic pinkish qz strgrs.
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
190	99	84.67	1	0	3				2		3		3
			0.5	0	3		2		2		3		
	101.67	101.67											
195	101	87.33											
	100	87.67											
200	100.33	95.67											
	99.33	82.67											
205	98	82	0.5	0	3				3		2		3
	100	73.67											
210	100	85.67											
	100	83.33											
215	99	71.33											
	99	84.67											
220	100.67	55	4	0	2				2				4

Structure Type: CN, VN, DYKE, DYKE, DYKE, DYKE, DYKE, DYKE, DYKE, DYKE, DYKE, DYKE, DYKE, CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508107	188	189.63	0.0025	0.4	302
3508108	189.63	192.1	0.022	0.45	318
3508109	192.1	194	0.006	0.66	403
3508111	194	196	0.006	0.33	211
3508112	196	198	0.008	0.47	365
3508113	198	200	0.008	0.61	358
3508114	200	202	0.069	0.64	324
3508115	202	204	0.009	0.25	295
3508116	204	206	0.033	0.29	278
3508117	206	208	0.005	0.19	209
3508118	208	210	0.006	0.25	227
3508119	210	212	0.0025	0.39	238
3508121	212	214	0.018	0.3	297
3508122	214	215.54	0.015	0.28	260
3508123	215.54	217	0.048	1.85	397
3508124	217	218.5	0.02	0.07	141
3508125	218.5	220	0.016	0.15	206
3508126	220	222	0.018	0.22	270
3508127	222	224	0.015	0.15	165
3508128	224	225.23	0.014	0.31	169
3508129	225.23	227	0.015	0.31	210

DH Survey

Depth (m)	Azimuth	Dip	Tool
198.12	93.15	-61.92	Reflex EZ-Gyro
213.36	91.73	-61.91	Reflex EZ-Gyro

Legend

Lith Code

- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- DIOR — Diorite

Structure Type

- CN — Contact
- VN — Vein
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

Drilling targeted the inferred porphyry "Ring Anomaly/M16" geophysics target, in the central portion of the anomaly. On cross-section the DDH collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260m. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	225.23 to 233m: DIOR - UC 55CA. DIOR-1. grey. medium grained salt-pepper diroite. texture lightly obscured by pervasive silica alteration. grain boundaries of mafics are blurred (~40% anhedral 2-3mm hbl?). 40-50% 2-4mm anhedral to subhedral plagioclase phenos. ~4% fine-grained pyrite disseminations. <0.5% p-strgrs. trace L2 strgrs. mod-hi brk core within fracture zone from 230.50-233m -- localized shear foliation @ 230.50-230.90m. fracture zone interval is silica altered with slightly increased chlorite.
DIOR	233 to 273.35m: DIOR - gradational upper contact. DIOR-1. med-grained salt-pepper hbl-plag diorite. 45-50% 2-4mm anhedral to subhedral hbl phenos. 45-50% 2-4mm subh plag phenos. ~5% equant mag grains 2-3mm. mod chlorite alteration halos to fracts and stringers. weak-mod patchy epidote alteration throughout. pyrite as very fine disseminations in groundmass. common L2/L5 veins w/ dark-green to black chlorite halos -- retrograde from bt?. <1% P1 veining. trace E-veining as magnetite stringers @ ~250.7m.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	100.67	55											
	96.67	32.33	4	0	2				2				4
230	100	26.67	2	0							3		4
	100	78											
235	100	75.67											
240	100	83.33											
	98.67	81.33											
245	100.33	67											
	100.33	93.33	0.5	0	3				3		3	2	
250	98.67	90.67											
255	100.33	91.67											
	100	95.67											
260	100.33	88											
	96.33	47											

Structure Type: SZ (225.23–233.35m); FRZ (233.35–273.35m); VN (249.44–251.00m); FRZ (261.00–265.00m)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508129	225.23	227	0.015	0.31	210
3508131	227	229	0.007	0.05	46.5
3508132	229	230.5	0.011	0.11	68.2
3508133	230.5	233	0.027	4.78	3,866
3508134	233	235	0.01	0.41	437
3508136	235	237	0.012	0.87	511
3508137	237	239	0.012	0.74	491
3508138	239	241	0.013	0.47	376
3508139	241	243	0.007	0.39	306
3508141	243	245	0.023	2.26	734
3508142	245	247	0.008	0.46	240
3508143	247	249	0.013	0.24	144
3508144	249	251	0.013	0.29	197
3508145	251	253	0.011	0.29	230
3508146	253	255	0.017	0.48	272
3508147	255	257	0.013	0.44	344
3508148	257	259	0.01	0.34	366
3508149	259	261	0.012	0.6	580
3508151	261	263	0.016	0.36	354
3508152	263	265	0.007	0.48	521

DH Survey

Depth (m)	Azimuth	Dip	Tool
228.6	92.11	-61.98	Reflex EZ-Gyro
243.84	92.08	-62.07	Reflex EZ-Gyro
259.08	92.32	-62.07	Reflex EZ-Gyro

Legend

Lith Code
- DIOR — Diorite

Structure Type
- SZ — Shear Zone
- FRZ — Fracture Zone
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

Drilling targeted the inferred porphyry "Ring Anomaly/M16" geophysics target, in the central portion of the anomaly. On cross-section the DDH collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260m. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	233 to 273.35m: DIOR - gradational upper contact. DIOR-1. med-grained salt-pepper hbl-plag diorite. 45-50% 2-4mm anhedral to subhedral hbl phenos. 45-50% 2-4mm subh plag phenos. ~5% equant mag grains 2-3mm. mod chlorite alteration halos to fracts and stringers. weak-mod patchy epidote alteration throughout. pyrite as very fine disseminations in groundmass. common L2/L5 veins w/ dark-green to black chlorite halos -- retrograde from bt?. <1% P1 veining. trace E-veining as magnetite stringers @ ~250.7m.
MZPP	273.35 to 276.35m: MZPP - grey. med-grained monzonite(?). 30-40% 2-4mm anhedral to subhedral feldspar phenocrysts in aphanitic grey-green groundmass. UC/LC are finer-grained for about ~50cm (chill margin), transitioning to coarser-grained intrusive. <1% fg pyrite dissems and strngrs assoc w/ ep. silica alteration overprints opro (ep-halos to fracts).
DIOR	276.35 to 284.9m: DIOR - DIOR-1. green. med-grained salt-pepper hbl-plag diorite. ~50/50 2-4mm subh hbl and plag phenos. mod chl-ep alteration as halos to late and peripheral veinlets/strgrs. 1-2% vfg dissems of pyrite. trace localized qz+/-kf veining from 277-278m w/ trace cp specks. hi-brk core @ 281.9-282.75m (fault?)
DIOR	284.9 to 293.4m: DIOR - 40UC. DRPD?. med-coarse grained plag-phyric intrusive. 20-35% 2-5mm plag laths & 15-20% 3-4mm subh hbl phenos in dark grey-green aphanitic groundmass. porphyritic to locally glomerophyric. texturally similar to DRPD units in MTM with a notable lack of zoned plagioclase phenocrysts. upper contact is marked by ~20cm chilled margin . Lower contact is undulated approx 5-10 degrees (low-angle to core axis). mod-str mag. local vfg pyrite dissems.
DIOR	293.4 to 304m: DIOR - UC ~5-10CA (undulated). DIOR-1. green and white. medium-grained salt-&-pepper hbl-plag diorite. 25-40% 2-3mm anhedral mafics (hbl). 30-50% 2-4mm anhedral to subhedral feldspar (plag) phenos. Propylitic alteration as pervasive wk-mod epidote. mod chl halos to fracts andP/L veining. mod mag throughout. P/L-type strgrs/vlets <1%. trace single cp speck in diorite gmass???

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
265	96.33	47											
	101	64.33	0.5	0	3				3		3	2	
270	98.67	83											
	100	76.67											
275	100	52	0.5	0	3				2		2	2	3
	100	76.67											
280	100	44	1	0.1	3				2		3	2	
	99	66.33											
285	100.33	86	0.2	0	3				2		2	2	
290	100.67	77.33											
	99	48.67											
295	99	81.67	1	0.01	3				3		3	2	
300	99.33	66.33											

Assays

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
FRZ	3508152	263	265	0.007	0.48	521
	3508153	265	267	0.011	0.94	1,197
	3508154	267	269	0.005	0.42	408
	3508155	269	271	0.005	0.51	439
	3508156	271	273.35	0.008	0.72	458
CN	3508157	273.35	274.85	0.014	0.5	185
	3508158	274.85	276.35	0.0025	0.03	81.7
CN	3508159	276.35	278	0.035	0.76	425
VN	3508161	278	280	0.0025	0.55	347
	3508162	280	281.9	0.184	0.47	374
SZ	3508163	281.9	283.4	0.303	1.01	470
FRZ	3508164	283.4	284.9	0.0025	0.81	552
CN	3508165	284.9	287	0.0025	0.21	117
	3508166	287	289	0.0025	0.24	150
	3508167	289	291	0.0025	0.33	187
	3508168	291	293.4	0.0025	0.18	155
	3508169	293.4	295	0.013	2.8	758
	3508171	295	297	0.011	1.04	518
	3508172	297	299	0.006	0.49	356
	3508173	299	301	0.012	0.93	638
	3508174	301	302.5	0.01	0.66	490

DH Survey

Depth (m)	Azimuth	Dip	Tool
274.32	92.76	-62.02	Reflex EZ-Gyro
289.56	92.18	-62.11	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- FRZ — Fracture Zone
- CN — Contact
- VN — Vein
- SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

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Lithology

Depth	Lith Code	Description
	DIOR	293.4 to 304m: DIOR - UC ~5-10CA (undulated). DIOR-1. green and white. medium-grained salt-&-pepper hbl-plag diorite. 25-40% 2-3mm anhedral mafics (hbl). 30-50% 2-4mm anhedral to subhedral feldspar (plag) phenos. Propylitic alteration as pervasive wk-mod epidote. mod chl halos to fracts andP/L veining. mod mag throughout. P/L-type strgrs/vlets <1%. trace single cp speck in diorite gmass???
305	DIOR	304 to 308.45m: DIOR - MAFIC DYKE (Hornblendite). dark green. med-coarse grained hornblende porphyry. 20-30% 2-6mm subhedral to euhedral hornblende phenos partially repl by bt. 1-2% magnetite grains 1-2mm. aphanitic dark-green groundmass. weak opro as ep-carb fract coating and halos to weak p-veining. L-strgrs common.
310	DIOR	308.45 to 313.06m: DIOR - UC 20CA. DIOR-1. green. medium-grained salt-&-pepper hbl-plag diorite. 30-40% 2-3mm anhedral mafics (hbl). 30-40% 2-4mm anhedral to subhedral feldspar (plag). ~5% subhedral biotite (primary?). Propylitic alteration as pervasive wk-mod epidote. mod chl halos to fracts andP/L veining. mod mag throughout. P/L-type strgrs/vlets <1%. trace single cp clot ~ 4mm in late vein proximal to lower contact.
	DIOR	313.06 to 314.8m: DIOR - diorite? monzonite? texturally obscure. grey. fine-grained with local 2-3mm fsp(?)/hbl(?) phenos in aphanitic groundmass. mod-strong pervasive silica alteration. localized carbonate stringers stockwork @ 313.70-313.90m. fg-mg pyrite dissems and clots < 5mm. non-mag
315	DIOR	314.8 to 324.37m: DIOR - DRPD?. med-coarse grained plag-phyric intrusive. 20-35% 2-6mm plagioclase in dark grey-green aphanitic groundmass. porphyritic to locally glomerophyric. texturally similar to DRPD units in MTM with a notable lack of zoned plagioclase phenocrysts. epidote alteration rims along phenos and as fract/p-strgr halos. mod-str mag. local fg pyrite dissems. upper and lower contacs obscure
325	DIOR	324.37 to 343.44m: DIOR - UC ~20CA (low confidence). DIOR-1. green (dark to light). medium-grained salt-&-pepper hbl-plag diorite. 40-50% 3-4mm anhedral mafics (hbl) in light-green vfg to aphanitic (plag-dominated?) groundmass. Propylitic alteration as pervasive mod epidote. mod-strong chl halos to fracts and P-veining. mod mag throughout. P/L-type strgrs/vlets 3-5%

Geotechnical / Mineralisation / Alteration Mineral Intensity

Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
99.33	66.33	1	0.01	3				3		3	2	
99	75											
101	89.33	0.5	0					2		2	2	
100	86.33	0.5	0.01	3				3		2	2	
98.67	81.33											
		3	0								2	4
99.67	75	2	0	3				3		2	2	
100	70.67											
99.33	89.67											
100	89	1	0	3				3		4		
101.33	67											
100	92.33											
98.67	86.33											
99.33	86.33											
101.33	91.67											

Structure Type

CN

VN

DYKE

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508174	301	302.5	0.01	0.66	490
3508176	302.5	304	0.0025	0.75	452
3508177	304	306	0.0025	0.32	147
3508178	306	308.45	0.0025	0.51	238
3508179	308.45	310	0.0025	0.68	310
3508181	310	311.53	0.0025	0.53	354
3508182	311.53	313.06	0.0025	0.54	323
3508183	313.06	314.8	0.0025	0.15	72.3
3508184	314.8	317	0.0025	0.17	42.3
3508185	317	319	0.0025	0.29	59.9
3508186	319	321	0.0025	0.05	77.5
3508187	321	323	0.0025	0.07	45.3
3508188	323	324.37	0.0025	0.12	78.7
3508189	324.37	326	0.0025	0.93	564
3508191	326	328	0.0025	0.75	415
3508192	328	330	0.018	1.17	482
3508193	330	332	0.0025	1.47	611
3508194	332	334	0.0025	1.32	678
3508195	334	336	0.0025	0.69	377
3508196	336	338	0.006	0.92	529
3508197	338	340	0.0025	0.84	556

DH Survey

Depth (m)	Azimuth	Dip	Tool
304.8	91.43	-62.11	Reflex EZ-Gyro
320.04	91.34	-62.2	Reflex EZ-Gyro
335.28	91.62	-62.25	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- CN — Contact
- VN — Vein
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

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Lithology

Lith Code	Description
DIOR	324.37 to 343.44m: DIOR - UC ~20CA (low confidence). DIOR-1. green (dark to light). medium-grained salt-&-pepper hbl-plag diorite. 40-50% 3-4mm anhedral mafics (hbl) in light-green vfg to aphanitic (plag-dominated?) groundmass. Propylitic alteration as pervasive mod epidote. mod-strong chl halos to fracts and P-veining. mod mag throughout. P/L-type strgrs/vlets 3-5%
ANDS	343.44 to 358.2m: ANDS - UC 50CA. grey-green. fine-grained andesitic volcanics/pyroclastics? UC in localized shear foliated interval approx ~2m. Generally massive and lacks texture -- local <15% subhedral plag/px phenos 2-4mm. intermittent non-mineralized leucocratic DIOR-1 dykelets and dykes < 5cm. DIOR-1 dykes ~ 20CA contact angle with andesite hostrock (see structure tab). mod-strong OPRO alteration as patches of chl-ep -- also as halos to fractures and P/L-stringers and vlets. very fine to fine grained pyrite 3-5% (trace strgrs assoc w/ ep-carb). P/L strgrs common.
DIOR	358.2 to 364.32m: DIOR - UC ~40CA. DIOR-1. green and white. medium-grained salt-&-pepper hbl-plag diorite. 25-40% 2-3mm anhedral mafics (hbl). 30-50% 2-4mm anhedral to subhedral feldspar (plag) phenos. Mod chl replacement of mafics. weak epidote as fract halos/coating. patchy moderate silica overprint. wk-mod mag throughout. trace P/L veining. fg pyrite dissems 2-3%
DIOR	364.32 to 369.13m: DIOR - MAFIC DYKE (Hornblendite). dark green. med-coarse grained hornblende porphyry. 20-30% 2-6mm subhedral to euhedral hornblende phenos partially repl by bt. 1-3% magnetite grains 1-2mm. aphanitic dark-green groundmass. weak opro as ep-carb fract coating and halos to weak p-veining. L-strgrs/vlets common.
DIOR	369.13 to 379.17m: DIOR - DIOR-1. green. med-grained salt-&-pepper hbl-plag diorite. equigranular?? 50-60% 2-4mm anhedral-subhedral hornblends. 40-50% 2-4mm subh feldspars. ~5% 1-2mm equant mag. moderate chl-ep alteration as fract/p-strgr halos. fg pyrite dissems (<1%). interval is cross-cut by <10cm leucocratic varieties of porphyrytic hbl-plag diorite. 30-40% anhedral 2-4mm hornblendes in grey to white fine-med grained Ca/Na-plag groundmass. trace cp as isolated ~3mm clot @ 369.6m

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
340	101.33	91.67	1	0	3				3		4		
	100.67	67.33											
345	98.67	70											
	100.67	50.67											
350	100	75.67	4	0	3				3		4	2	
355	100.67	56											
	100	25.33											
360	99	25.67	3	0	2				2		3		3
	98.67	34.33											
365	98.67	73.33	0.1	0	2				2		2	2	
370	101	80.33											
	99.33	61.67	0.5	0.1	3				3		3	1	
375	100.67	75											

Structure Type

Structure Type	From (m)	To (m)
SZ	343.44	345
CN	358.2	358.2
DYKE	361.9	363.11
FL	364.32	366
CN	367.56	369.13
DYKE	371	373
DYKE	373	375

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508197	338	340	0.0025	0.84	556
3508198	340	342	0.0025	1.18	711
3508199	342	343.44	0.0025	1.3	796
3508201	343.44	345	0.007	1.91	997
3508202	345	347	0.014	1.75	1,168
3508203	347	349	0.008	1.01	685
3508204	349	351	0.0025	0.96	534
3508205	351	353	0.0025	0.58	381
3508206	353	355	0.008	0.87	547
3508207	355	356.6	0.032	0.63	398
3508208	356.6	358.2	0.0025	0.36	277
3508209	358.2	360	0.007	0.4	238
3508211	360	361.9	0.0025	0.23	83.2
3508212	361.9	363.11	0.0025	0.21	125
3508213	363.11	364.32	0.0025	0.18	69.5
3508214	364.32	366	0.02	0.5	212
3508216	366	367.56	0.0025	0.19	261
3508217	367.56	369.13	0.0025	0.24	124
3508218	369.13	371	0.0025	0.51	257
3508219	371	373	0.0025	1.01	354
3508221	373	375	0.006	0.48	239
3508222	375	377	0.008	0.81	413

DH Survey

Depth (m)	Azimuth	Dip	Tool
350.52	91.63	-62.29	Reflex EZ-Gyro
365.76	92.78	-62.35	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- SZ — Shear Zone
- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
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Lithology

Lith Code	Description
DIOR	369.13 to 379.17m: DIOR - DIOR-1. green. med-grained salt-&-pepper hbl-plag diorite. equigranular?? 50-60% 2-4mm anhedral-subhedral hornblends. 40-50% 2-4mm subh feldspars. ~5% 1-2mm equant mag. moderate chl-ep alteration as fract/p-strgr halos. fg pyrite dissems (<1%). interval is cross-cut by <10cm leucocratic varieties of porphyrytic hbl-plag diorite. 30-40% anhedral 2-4mm hornblendes in grey to white fine-med grained Ca/Na-plag groundmass. trace cp as isolated ~3mm clot @ 369.6m
APFW	379.17 to 389.75m: APFW - green. medium grained px-hbl-plag phryic andesite flow. 20-30% 2-6mm mafics (px > hbl) and local 10-15% 3-4mm subhedral plag laths. localized flow texture expressed by rough alignment of plag/hbl phenos. very fine grained green groundmass. ~1% fg pyrite as dissems and trace strgrs assoc w/ carb. ep-chl alteration throughout. common P/L vlets/strgrs
DIOR	389.75 to 413.65m: DIOR - dark-green. salt-pepper diorite. 2-4mm anhedral to subhedral hbl-plag phenos ~50/50 to slightly hbl dominated. mod-str chl-ep alteration as halos fracts and p-strgrs/velts. <1% fg pyrite dissems. mod-str mag throughout. intermittent <10cm dykelets of leucocratic variety of similarly-textured diorite.
DIOR	413.65 to 415.3m: DIOR - DRPD?. med-coarse grained plag-phyric intrusive. 15-25% 2-5mm plagioclase laths in dark grey-green aphanitic groundmass. porphyritic to locally glomerophyric. texturally similar to DRPD units in MTM with a

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
	100.67	75	0.5	0.1	3				3		3	1	
	99.33	82.33											
	100.33	83.67											
	99	72.33	1	0	3				3		3	2	
	96	78											
	100	63.67											
	97	43.67											
	100	82											
	101	79.67											
	100	70.33	0.5	0	3				3		3		
	101	89.33											
	100	92.33											
	100	88											
	99.67	99.67	0.1	0					2		2		

Depth scale: 380, 385, 390, 395, 400, 405, 410

Structure Type

CN, CN, DYKE, DYKE, DYKE, CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508222	375	377	0.008	0.81	413
3508223	377	379.17	0.0025	0.81	379
3508224	379.17	381	0.009	0.91	569
3508225	381	383	0.017	1.12	588
3508226	383	385	0.0025	1.34	794
3508227	385	387	0.0025	1.23	575
3508228	387	388.37	0.006	1.12	604
3508229	388.37	389.75	0.009	1.03	565
3508231	389.75	392	0.01	1.62	713
3508232	392	394	0.012	1.01	508
3508233	394	396	0.011	0.68	473
3508234	396	398	0.011	2.01	357
3508235	398	400	0.012	0.66	447
3508236	400	402	0.024	0.66	550
3508237	402	404	0.014	0.58	526
3508238	404	406	0.024	1.14	517
3508239	406	408	0.017	0.67	507
3508241	408	410	0.021	0.4	381
3508242	410	412	0.023	0.34	411
3508243	412	413.65	0.028	0.29	431
3508244	413.65	415.3	0.0025	0.13	134

DH Survey

Depth (m)	Azimuth	Dip	Tool
381	91.48	-62.41	Reflex EZ-Gyro
396.24	92.25	-62.37	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- APFW — Andesitic Volcanic Rocks: Px andesite porphyry flow

Structure Type

- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-030	Max	419	27-Sep-2020	02-Oct-2020	431388.774	6086752	1275.456	90.8	-62.3	NQ	Colin Cenaiko	

Purpose

Drilling targeted the inferred porphyry "Ring Anomaly/M16" geophysics target, in the central portion of the anomaly. On cross-section the DDH collars into moderate chargeability that increases at depth and crosses a sharp transition from moderate resistivity to low resistivity at ~260m. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
415	DIOR	413.65 to 415.3m: DIOR - DRPD?. med-coarse grained plag-phyric intrusive. 15-25% 2-5mm plagioclase laths in dark grey-green aphanitic groundmass. porphyritic to locally glomerophyric. texturally similar to DRPD units in MTM with a notable lack of zoned plagioclase phenocrysts. epidote alteration as fract and p-veining halos. mod-str mag. local fg pyrite dissems. chilled margins along both upper and lower contacts	99.67	99.67	0.1	0					2		2			CN	3508244	413.65	415.3	0.0025	0.13	134				
	DIOR	415.3 to 419m: DIOR - DIOR-1. green/white. med-grained leucocratic plag-hbl diorite. ~40% 2-4mm anhedral hbl phenos in grey/white plag dominated groundmass. ep-chl alteration halos to fracts and ep+/-carb strgrs. <1% fg pyrite dissems. wk magnetic throughout. trace qz-kf strgrs.	99.33	96.33	0.5	0	3				2		2				3508245	415.3	417	0.051	0.52	410				
																	3508246	417	419	0.037	0.49	373				

Legend

Lith Code

DIOR — Diorite

Structure Type

CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Depth	Lith Code	Description
	DIOR	3 to 22.96m: DIOR - DIOR-1. grey & weak patchy pistachio green. weak to moderate limonite oxidation along fracture planes. intermittent < 50cm intervals of hi-brk core -- partially (<10%) degraded to soil. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote alteration as halos to fracts. localized pitting along select fracture planes. <0.5% pyrite as vfg dissems. localized cross-cutting dykes (<5cm) of leucocratic diorite. (~40% hbl in plag dominated white/grey groundmass).
	ANDS	22.96 to 25.27m: ANDS - mottled dark-light green. fine-grained andesitic unit. textures obscured by mottled chl-ep-limonite alteration/oxidation. mod-str chl/ep halos to fracts and localized epidote vein breccia. moderate med-grained pyrite dissems and discontinuous strgrs assoc w/ ep-chl.
	DIOR	25.27 to 51m: DIOR - DIOR-1. grey & weak patchy pistachio green. weak limonite oxidation along fracture plane. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote

Geotechnical / Mineralisation / Alteration Mineral Intensity

Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
79.67	24.33	0.5	0	3				2		1		
99	41.33											
95.67	19.67											
95.33	26.33											
99	8.33											
84	13.33											
99.67	37.33	7	0	1				3		4		
99.33	66.33											
98.67	20.67											
98.67	63.33	1	0	3				2	2	2		
97	74											
100.33	56											

Assays

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
	3508247	3	5	0.049	0.36	349
	3508248	5	7	0.066	0.44	444
	3508249	7	9	0.047	0.46	446
FRZ	3508251	9	11	0.016	0.42	243
	3508252	11	13	0.04	0.52	482
FRZ	3508253	13	15	0.036	0.19	208
	3508254	15	17	0.038	0.35	336
	3508256	17	19	0.027	0.6	379
FRZ	3508257	19	21	0.022	0.4	422
	3508258	21	22.96	0.035	0.41	354
BX	3508259	22.96	25.27	0.056	0.51	348
	3508261	25.27	27	0.015	0.4	337
	3508262	27	29	0.022	0.46	297
	3508263	29	31	0.023	0.44	411
	3508264	31	33	0.029	0.38	380
	3508265	33	35	0.032	0.65	551
	3508266	35	37	0.094	0.8	679
	3508267	37	39	0.044	0.34	449

DH Survey

Depth (m)	Azimuth	Dip	Tool
0	112.98	-64.92	Reflex EZ-Gyro
15.24	112.64	-64.85	Reflex EZ-Gyro
30.48	112.92	-64.73	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- FRZ — Fracture Zone
- BX — Breccia

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	25.27 to 51m: DIOR - DIOR-1. grey & weak patchy pistachio green. weak limonite oxidation along fracture plane. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. localized pitting along fractures. ~1% pyrite as fg dissems and assoc w/ ep as fract halos and strgrs. isolated malachite fracture coating @ 35.55m. localized cross-cutting dykelets (< 5cm) of leucocratic diorite. (~40% hbl in plag dominated whtie/grey groundmass).
DIOR	

Geotechnical

Recovery (%)	RQD (%)
100.33	56
98.33	90
99	72
100	87
97.33	55.67
100	71.33
98.33	76.67
97	73.33
98.33	52.33
97	43
101	80.33
98.33	67.33
98.67	93
101.67	94

Mineralisation

Pyrite (%)	Chalcopyrite (%)
1	0
0.5	0.01

Alteration Mineral Intensity

Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
3				2	2	2		
3				2	1	2		

Structure Type

VN, FRZ, FL, DYKE

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508267	37	39	0.044	0.34	449
3508268	39	41	0.063	0.37	427
3508269	41	43	0.035	0.55	471
3508271	43	45	0.063	0.45	418
3508272	45	47	0.052	0.39	455
3508273	47	49	0.035	0.38	396
3508274	49	51	0.033	0.52	486
3508275	51	53	0.019	0.28	255
3508276	53	55	0.099	0.49	432
3508277	55	57	0.019	0.35	282
3508278	57	59	0.027	0.6	417
3508279	59	61	0.02	0.35	280
3508281	61	63	0.021	0.47	368
3508282	63	65	0.02	0.42	348
3508283	65	67	0.026	0.88	842
3508284	67	69	0.038	0.42	386
3508285	69	71	0.031	0.26	315
3508286	71	73	0.031	0.19	248
3508287	73	75	0.043	0.52	497
3508288	75	77	0.044	0.48	528

DH Survey

Depth (m)	Azimuth	Dip	Tool
45.72	113.43	-64.71	Reflex EZ-Gyro
60.96	115.41	-64.72	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- VN — Vein
- FRZ — Fracture Zone
- FL — Fault
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity									
Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	51 to 139.15m: DIOR - DIOR-1. grey & weak patchy pistachio green. fresh rock with trace limonite along select fractures. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. localized pitting along fractures. ~1% pyrite as fg dissems and assoc w/ ep as fract halos and strgrs (T-strgrs). localized cross-cutting dykelets (< 10cm) of leucocratic diorite. (30-40% hbl in plag dominated white/grey groundmass). chloritized andesite xenolith/raft @ 98-98.20m. scattered cp specks (ultra-fine cpy grains) assoc w/ ep alteration -- mostly noticable past 110m	101.67	94												
		99.67	71.67												VN
		99.33	80.33												
		98	77.33												DYKE
		100.33	81.67												
		99	83												DYKE
		100.67	84	0.5	0.01	3				2	1	2			DYKE
		95.67	75.67												VN DYKE VN
		103	96												
		98.67	78												
		97	74												
		98.67	95												DYKE
		98.67	97	0.5	0.25										

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508288	75	77	0.044	0.48	528	76.2	113.08	-64.58	Reflex EZ-Gyro
3508289	77	79	0.102	1.27	1,045				
3508291	79	81	0.024	0.24	302				
3508292	81	83	0.026	0.38	350				
3508293	83	85	0.024	0.35	387				
3508294	85	87	0.022	0.3	335				
3508296	87	89	0.028	0.47	424				
3508297	89	91	0.031	0.33	389				
3508298	91	93	0.055	0.38	500	91.44	113.33	-64.47	Reflex EZ-Gyro
3508299	93	95	0.032	0.3	314				
3508301	95	97	0.076	0.69	670				
3508302	97	99	0.028	0.43	517				
3508303	99	101	0.032	0.49	396				
3508304	101	103	0.043	0.47	396				
3508305	103	105	0.019	0.46	416				
3508306	105	107	0.057	0.56	601	106.68	115.31	-64.4	Reflex EZ-Gyro
3508307	107	109	0.059	0.29	382				
3508308	109	111	0.067	0.37	439				
3508309	111	113	0.093	0.35	502				

Legend

Lith Code

DIOR Diorite

Structure Type

VN Vein

DYKE Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	51 to 139.15m: DIOR - DIOR-1. grey & weak patchy pistachio green. fresh rock with trace limonite along select fractures. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. localized pitting along fractures. ~1% pyrite as fg dissems and assoc w/ ep as fract halos and strgrs (1-strgrs). localized cross-cutting dykelets (< 10cm) of leucocratic diorite. (30-40% hbl in plag dominated white/grey groundmass). chloritized andesite xenolith/raft @ 98-98.20m. scattered cp specks (ultra-fine cpy grains) assoc w/ ep alteration -- mostly noticable past 110m
MZPP	139.15 to 142m: MZPP - grey-green. med-grained fsp-porphyry. mzpp?. 20-25% anhedral to subhedral 2-4mm fsp (plag & cream white alkali fsp) phenos in aphanitic groundmass. weak-moderate epidote halos to some phenos. fg pyrite clots upto 4mm assoc w/ ep alteration. ~0.5% pyrite hairline stringers.
DIOR	142 to 144.23m: DIOR - greenish-grey. biotite rich diorite (gabbroic dyke?) -- unit has a slightly more mafic composition: 10-15% coarse platy dark-brown biotite in fine-grained to aphanitic greenish groundmass. local anhedral plag phenos ~2mm. very weakly altered - chlorite-carb+/-ep halos to late-stage strngers/vlets. trace pyrite mineralization
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
115	98.67	97											
	102.33	88.33											
	98.33	85.67											
120	99.67	99.67											
	98.33	98.33											
125	100	99	0.5	0.25	3				2	1	2		
	100	82.67											
	98.33	87											
130	101	92.67											
	98.33	91.33	1	0	3				3		2		
135	100.33	94.67	0.1	0					1		2	2	
	100.67	100.67											
140	100	97.67	1	0.35	3		2	2	3	1	2		
145	100	98.67											
150													

Assays / DH Survey

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Structure Type	Depth (m)	Azimuth	Dip	Tool
3508309	111	113	0.093	0.35	502					
3508311	113	115	0.154	0.44	625					
3508312	115	117	0.289	0.59	944					
3508313	117	119	0.498	1.02	1,641	DYKE				
3508314	119	121	0.06	0.24	326					
3508315	121	123	0.099	0.34	509		121.92	115.76	-64.34	Reflex EZ-Gyro
3508316	123	125	0.037	0.42	501	DYKE				
3508317	125	127	0.04	0.36	400	DYKE				
3508318	127	129	0.089	0.3	368					
3508319	129	131	0.082	0.31	410					
3508321	131	133	0.034	0.2	216					
3508322	133	135	0.108	0.22	254					
3508323	135	137	0.271	0.4	523					
3508324	137	139.15	0.051	0.3	328		137.16	115.32	-64.38	Reflex EZ-Gyro
3508325	139.15	140.42	0.007	0.03	82.7	CN				
3508326	140.42	142	0.017	0.01	49.9					
3508327	142	144.23	0.046	0.24	317	CN				
3508328	144.23	146	0.085	0.79	804	CN				
3508329	146	148	0.024	0.38	365					
3508331	148	150	0.028	0.38	334					
3508332	150	152	0.031	0.37	348					

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity									
Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	144.23 to 170.15m: DIOR - DIOR-1. grey-green+/-white & patchy pistachio green. medium-grained hbl-plag salt-and-pepper LEUCOcratic diorite. porphyritic: 40-45% 2-5mm anhedral to subhedral hbl (partial repl by biotite) in grey-white plag-dominated groundmass. mod magnetic throughout. epidote+/-chlorite alteration as halos to fracts and epidote veining (P-type). patches of cream-white noted in groundmass (albite alteration?). trace to weak patchy white sericite alteration halos to select fracts. ~1% pyrite as fg dissems and assoc w/ ep as fract halos and strgrs (T-strgrs). scattered ultra-fine cpy specks/aggregates with very-strong association with epidote+/-chlorite alteration and fracture infill.	100	98.67	1	0.35	3		2	2	3	1	2			
		101	101												
		100	100												
		99.67	99.33												VN
		101.33	101.33												FL
		98.67	98.67												
		101	91.67												
MFD	170.15 to 175.02m: MFD - MAFIC DYKE. dark green. medium-grained hornblende phyric dyke. 20-30% 3-6mm subhedral to euhedral stubby hornblende phenocrysts in aphanitic dark green groundmass. partial replacement of hbl with shreddy biotite. weak epidote alteration as halos to fracts and rims to mafics. common P-strgrs. notable chill margins observed on both UC/LC <5cm thick	100	94	0.1	0.01	2				2		2	2		CN
DIOR		99.67	99.67	0.5	0.2	3		2	2	3		2	2		CN
		101	92.33												
		100	100												
		100	100												DYKE
		99.67	97.33												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508332	150	152	0.031	0.37	348	152.4	114.76	-64.43	Reflex EZ-Gyro
3508333	152	154	0.025	0.36	346				
3508334	154	156	0.036	0.52	475				
3508336	156	158	0.03	0.55	489				
3508337	158	160	0.052	0.64	556				
3508338	160	162	0.055	0.92	849				
3508339	162	164	0.046	0.53	430				
3508341	164	166	0.019	0.23	180				
3508342	166	168	0.038	0.33	284	167.64	115.96	-64.37	Reflex EZ-Gyro
3508343	168	170.15	0.055	1.06	932				
3508344	170.15	172	0.023	0.28	225				
3508345	172	173.51	0.017	0.22	176				
3508346	173.51	175.02	0.019	0.23	194				
3508347	175.02	177	0.033	0.49	407				
3508348	177	179	0.046	0.42	405				
3508349	179	181	0.087	0.55	591				
3508351	181	183	0.055	0.42	450	182.88	115.18	-64.22	Reflex EZ-Gyro
3508352	183	185	0.141	0.41	366				
3508353	185	187	0.06	0.59	560				
3508354	187	189	0.019	0.34	291				

Legend

Lith Code

- DIOR — Diorite
- MFD — Mafic Dyke

Structure Type

- VN — Vein
- FL — Fault
- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	DIOR	175.02 to 208.53m: DIOR - DIOR-1. medium-dark green+/-white & patchy pistachio green. medium-grained hbl-plag salt-and-pepper diorite. equigranular to locally porphyritic: 40-50% 2-5mm anhedral to subhedral hbl (partial repl by biotite) in grey/white plag-dominated groundmass. mod magnetic throughout. epidote+/-chlorite alteration as halos to fracts and epidote veining (P-type). patches of cream-white noted in groundmass (albite alteration?). trace patchy white sericite alteration halos to select fracts. ~1% pyrite as fg dissems and assoc w/ ep as fract halos and strgrs (T-strgrs). scattered ultra-fine cpy specks/aggregates with very-strong association with epidote+/-chlorite alteration and fracture infill.	99.67	97.33	0.5	0.2	3		2	2	3		2	2		
			100	95												
			100.67	88.67												
			100	95.33												
			99.33	97.67												
			100	94.33												
			99.67	88.33												
			100.33	93.33												CN
	MZPP	208.53 to 211.05m: MZPP - green. medium grained feldspar porphyry. 30-35% anhedral to subhedral feldspar phenocrysts 2-5mm -- locally wk replaced by blue-green cr-mica. 3-5% 1-2mm anhedral mafics (hbl?). ~5% 1mm equant magnetite grains. moderate epidote as extensive halos to fractures and p-strgrs. trace sulfide (py/cpy) as very fine dissems in gmass. UC 35ca. LC25ca. chilled margins notable on both contacts.			0.15	0.1	3				3		2	1		
			100.33	90.67												CN
	DIOR		100	98	0.5	0.1	3				2	1	2			
			99.67	99.67												
		211.05 to 232.15m: DIOR - DIOR-1. green-grey & weak patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. ~1% pyrite as vfg dissems and trace strgrs (T-strgrs?). trace scattered cp specks (ultra-fine cpy grains) assoc w/ ep alteration.	100	85.67												
			99.67	82												
			99.33	97.67												DYKE

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508354	187	189	0.019	0.34	291				
3508355	189	191	0.029	0.35	313				
3508356	191	193	0.009	0.24	166				
3508357	193	195	0.01	0.13	102				
3508358	195	197	0.023	0.3	259				
3508359	197	199	0.048	0.35	267	198.12	115.51	-64.19	Reflex EZ-Gyro
3508361	199	201	0.019	0.31	268				
3508362	201	203	0.041	0.69	592				
3508363	203	205	0.02	0.41	423				
3508364	205	207	0.022	0.35	348				
3508365	207	208.53	0.025	0.66	512				
3508366	208.53	209.8	0.02	0.3	214				
3508367	209.8	211.05	0.013	0.35	159				
3508368	211.05	213	0.039	0.46	325				
3508369	213	215	0.04	0.54	441	213.36	116.37	-64.13	Reflex EZ-Gyro
3508371	215	217	0.033	0.3	286				
3508372	217	219	0.032	0.36	439				
3508373	219	221	0.042	0.46	471				
3508374	221	223	0.03	0.34	426				
3508376	223	225	0.045	0.52	605				
3508377	225	227	0.03	0.34	434				

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
	DIOR	211.05 to 232.15m: DIOR - DIOR-1. green-grey & weak patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. ~1% pyrite as vfg dissems and trace strgrs (T-strgrs?). trace scattered cp specks (ultra-fine cpy grains) assoc w/ ep alteration.	99.33	97.67	0.5	0.1	3				2	1	2			DYKE
230			100.33	88.67												
	ANDS	232.15 to 236.71m: ANDS - dark green. plag-rich andesitic dyke???? 40-50% 2-3mm suhedral-euhedral plagioclase laths with weak preferred orientation (weak trachytic texture). 10-15% 2-4mm mafics (hbl?). fine to aphanitic dark-green groundmass. mod patchy epidote alteration. mod mag throughout. 3-5% biotite replacement as observable sheety/shreddy texture within mafics. chilled margins observed on both upper and lower contacts (~30degrees to CA)	99.33	97	0.1	0	3				3		3			CN
235		236.71 to 238.09m: DIOR - DRPD? med-coarse grained plag-phyric intrusive. 10-15% 2-5mm anh-subhedral plag phenos and aggregates in grey-green aphanitic groundmass. porphyrytic to locally glomerophyric. texturally similar to DRPD units in MTM. epidote rims along select phenos & halos to fractures. fine-grained pyrite dissems and trace discont strgrs. patchy silica overprint.	100	98.67												
	DIOR				2.5	0					3		1		2	CN
			99.67	92.67												CN
240			100.33	99.67												DYKE
245			99	89.33												DYKE
			99	95.67												
250	DIOR		100	79	1	0.1	3			1	3		2	1		DYKE
			100	99.33												DYKE
255			99.33	97.33												
260			99.33	99.33												DYKE
		238.09 to 287.27m: DIOR - DIOR-1. green-grey & weak patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 2-4mm anhedral to subhedral hbl and plag phenos. mod-str magnetic throughout. weak epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. ~1% pyrite as vfg dissems and trace strgrs (T-strgrs?). trace	101	94												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508377	225	227	0.03	0.34	434
3508378	227	229	0.046	0.37	371
3508379	229	231	0.024	0.36	219
3508381	231	232.15	0.043	0.25	278
3508382	232.15	234.5	0.012	0.14	132
3508383	234.5	236.71	0.015	0.15	149
3508384	236.71	238.09	0.008	0.15	213
3508385	238.09	240	0.036	0.45	358
3508386	240	242	0.049	0.27	352
3508387	242	244	0.013	0.17	158
3508388	244	246	0.043	0.28	293
3508389	246	248	0.037	0.22	214
3508391	248	250	0.034	0.29	259
3508392	250	252	0.054	0.53	585
3508393	252	254	0.033	0.26	243
3508394	254	256	0.049	0.56	461
3508395	256	258	0.045	0.22	178
3508396	258	260	0.03	0.13	150
3508397	260	262	0.029	0.11	110
3508398	262	264	0.02	0.1	117

DH Survey Depth (m)	Azimuth	Dip	Tool
228.6	115.68	-64.14	Reflex EZ-Gyro
243.84	115.59	-64.2	Reflex EZ-Gyro
259.08	115.08	-64.24	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
265–275	DIOR	238.09 to 287.27m: DIOR - DIOR-1. green-grey & weak patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 2-4mm anhedral to subhedral hbl and plag phenos. mod-str magnetic throughout. weak epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts. ~1% pyrite as vfg dissems and trace strgrs (T-strgrs?). trace scattered cp specks (ultra-fine cpy grains) assoc w/ ep alteration. trace E-veining as irregular magnetite vlets/strgrs. intermittent localized dykelets of leucocratic diorite porphyry.	101	94	1	0.1	3			1	3		2	1	
			100	100											
			101	101											
			100	100											
			100.33	96.67											
			99.67	99.67											
280			100.33	100.33											
			101	99.67											
285			100.33	100.33											
290	DIOR	287.27 to 294.3m: DIOR - DRPD? med-coarse grained plag-phyric intrusive. 20-40% 2-5mm anhedral to subhedral plagioclase phenos (locally zoned) and aggregates in dark green aphanitic groundmass. porphyrytic to locally glomerophyric. texturally similar to DRPD units in MTM. epidote alteration as fracture halos and p-stringers. Upper contact ~40degrees & lower contact ~50degrees.	99.67	99.67	0.1	0	3				3		2		
			99	96.33											
295	MZPP	294.3 to 299.8m: MZPP - green. medium grained feldspar porphyry. 30-35% anhedral to subhedral feldspar phenocrysts 2-5mm -- halos of epidote+/-silica(?) along select phenos. 3-5% 1-2mm anhedral mafics (hbl?). moderate epidote as extensive halos to fractures and p-strgrs. trace sulfide (py/cpy) as very fine dissems in gmass. UC 50ca. LC60ca. chilled margins notable on upper contact only	101	97	0.3	0.01	2				3		2	1	
			99	87											
300	DIOR		100.67	100	1.5	0	3				3	1	2		

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
	3508398	262	264	0.02	0.1	117				
	3508399	264	266	0.015	0.1	93.4				
	3508401	266	268	0.044	0.33	238				
	3508402	268	270	0.019	0.21	158				
	3508403	270	272	0.016	0.21	181				
	3508404	272	274	0.0025	0.05	27				
	3508405	274	276	0.0025	0.12	58	274.32	115.54	-64.17	Reflex EZ-Gyro
	3508406	276	278	0.01	0.11	80.6				
	3508407	278	280	2.47	0.15	151				
	3508408	280	282	0.019	0.13	92.2				
	3508409	282	284	0.032	0.24	247				
DYKE	3508411	284	286	0.011	0.15	147				
	3508412	286	287.27	0.011	0.15	143				
CN	3508413	287.27	289	0.013	0.23	172				
	3508414	289	291	0.016	0.27	167	289.56	116.82	-64.17	Reflex EZ-Gyro
	3508416	291	293	0.013	0.32	194				
	3508417	293	294.3	0.007	0.16	60.3				
	3508418	294.3	296.35	0.0025	0.11	60.2				
	3508419	296.35	298.4	0.0025	0.1	53.2				
	3508421	298.4	299.8	0.009	0.09	70				
CN	3508422	299.8	302	0.027	0.6	509				

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

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Lithology		Geotechnical		Mineralisation		Alteration Mineral Intensity									
Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
DIOR	299.8 to 317.65m: DIOR - DIOR-1. green-grey & weak patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 2-4mm anhedral to subhedral hbl and plag phenos. mod-str magnetic throughout. weak-moderate epidote+/-chlorite alteration as halos to fracts. trace to weak patchy white sericite alteration halos to select fracts and late carb-vlets. 1-1.5% pyrite as fg dissems.	100.67	100	1.5	0	3				3	1	2			
		100	90												
		101	101												
		99	93.67												
		102	91.67												
		99	94.33												DYKE
MFD	317.65 to 321.15m: MFD - Mafic dyke. dark green. medium-grained hornblende phyric dyke. 20-30% 3-6mm subhedral to euhedral stubby hornblende (+/- pyroxenes?) phenocrysts in aphanitic dark green groundmass. partial replacement of hbl with shreddy biotite. weak epidote alteration as halos to fracts and rims to mafics. common P-strgrs. minor <5cm chill margins on both UC/LC. upper contact obscure	97	69	0.1	0	2		1		1		1			
DIOR	321.15 to 325.85m: DIOR - DIOR-1. medium green and pervasive pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 2-4mm anhedral to subhedral hbl and plag phenos. mod-str magnetic throughout. moderate pervasive epidote+/-chlorite alteration throughout. trace patchy white sericite alteration halos to select fracts and late carb-vlets. ~1% pyrite as fg dissems and clots assoc w/ carb veining. trace cpy as ultrafine specks and localized clot < 3mm within carb vein.	102.67	90	1	0.1	3				3		2	1		CN
		97.67	67.67												
MZPP	325.85 to 328.8m: MZPP - monzonite? texturally obscured. interval is bound along upper and lower contacts by minor faulting/shearing. locallized porphyritic texture -- ~30% 1-4mm anhedral to subhedral plagioclase replaced by epidote+/-pyrite in aphanitic groundmass/matrix. enechelon epidote-chlorite-carb banding/fracture filling @327.78-328.50m. mod-strong ep-chl halos to fracts/p-strgrs. 3-5% disseminated pyrite throughout.	100	83	3	0					3	1	3	2	3	FL
DIOR		98	68	2	0	3				3		3	2		
		98	69.33												
		101	79.33												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508422	299.8	302	0.027	0.6	509				
3508423	302	304	0.019	0.62	434				
3508424	304	306	0.016	0.51	384	304.8	116.54	-64.18	Reflex EZ-Gyro
3508425	306	308	0.016	0.32	271				
3508426	308	310	0.017	0.42	321				
3508427	310	312	0.017	0.36	314				
3508428	312	314	0.016	0.33	284				
3508429	314	316	0.019	0.26	226				
3508431	316	317.65	0.022	0.34	304				
3508432	317.65	319	0.008	0.15	163				
3508433	319	321.15	0.011	0.18	138	320.04	117.86	-63.99	Reflex EZ-Gyro
3508434	321.15	323	0.043	0.41	319				
3508435	323	324.42	0.015	0.27	182				
3508436	324.42	325.85	0.01	0.43	285				
3508437	325.85	327.3	0.014	0.2	70.3				
3508438	327.3	328.8	0.012	0.14	133				
3508439	328.8	331	0.017	0.42	305				
3508441	331	333	0.013	0.37	274				
3508442	333	335	0.011	0.19	174				
3508443	335	337	0.01	0.36	312	335.28	116.94	-64	Reflex EZ-Gyro
3508444	337	339	0.016	0.71	353				

Legend

Lith Code

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- MFD — Mafic Dyke
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

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- CN — Contact
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

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Lithology

Lith Code	Description
DIOR	328.8 to 365m: DIOR - DIOR-1. green-grey & weak patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak to moderate epidote+/-chlorite alteration as halos to fracts and p-strgrs/vlets. trace white sericite alteration halos to select fracts. 2-3% pyrite as vfg dissems. local rafts of possible andesite (dark-green intervals <1m). local orange-pink carb (fe/mn-bearing) veining @ 340-3405m. scattered trace mag-vlets <1cm.
DIOR	365 to 372.66m: DIOR - Andesite dyke? grey. medium-grained hornblende porphyry. 15-20% acicular hornblende phenos (2-6mm) & 5-10% ~1mm anhedral feldspar phenos in aphanitic medium-grey groundmass. relativelyless magnetic vs previous diorites. weak epidote halos to fracts and p-strgrs. chilled margins noted along both upper and lower contacts

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
340	101	79.33											
	100	78											
	98.33	77.33											
345	100.33	85.67											
	100.33	80											
350	100	82	2	0	3				3		3	2	
	101	89.67											
355	100.33	91											
	100.67	83.33											
360	102	91.67											
	100.33	96	0.1	0					2				
365	98	77.33											
	102	92.67	1	0.1	3		2		3	1	2	1	
370	98	98											
375													

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508444	337	339	0.016	0.71	353
3508445	339	341	0.013	0.49	309
3508446	341	343	0.02	0.35	208
3508447	343	345	0.008	0.17	103
3508448	345	347	0.008	0.13	88.4
3508449	347	349	0.012	0.31	223
3508451	349	351	0.021	0.53	447
3508452	351	353	0.027	1.09	304
3508453	353	355	0.022	0.92	612
3508454	355	357	0.033	1.1	730
3508456	357	359	0.02	0.34	232
3508457	359	361	0.058	0.75	875
3508458	361	363	0.042	1.35	1,461
3508459	363	365	0.007	0.4	286
3508461	365	367	0.009	0.12	83.2
3508462	367	369	0.005	0.15	60
3508463	369	371	0.008	2	62.5
3508464	371	372.66	0.014	2.3	150
3508465	372.66	374	0.014	0.36	407
3508466	374	376	0.016	0.29	231
3508467	376	378	0.017	0.48	386

Structure Type: VN (3508444, 3508445); CN (3508461); CN (3508465)

DH Survey

Depth (m)	Azimuth	Dip	Tool
350.52	116.59	-64.06	Reflex EZ-Gyro
365.76	116.25	-64.06	Reflex EZ-Gyro

Legend

Lith Code: DIOR Diorite

Structure Type: VN Vein; CN Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-031	Max	414	02-Oct-2020	05-Oct-2020	431096.843	6086853	1259.874	112.98	-64.92	NQ	John Tejada	

Purpose

Testing the western portion of the inferred porphyry geophysics target, the Ring anomaly. The DDH was collared ~300 m west of MAX20-030. On cross-section the DDH collars into a chargeability low until ~210 m that becomes moderate at depth and collars into a resistivity high until ~130 m that remains moderate until EOH. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
380	DIOR	372.66 to 414m: DIOR - DIOR-1. green-grey & patchy pistachio green. medium-grained hbl-plag salt-and-pepper mesocratic diorite. ~50/50 roughly equigranular 1-3mm anhedral to subhedral hbl and plag phenos. mod magnetic throughout. weak to moderate epidote+/-chlorite+/-biotite alteration halos to fracts and carb+/-ep veining. trace white sericite alteration halos to select fracts. 1-2% pyrite as vfg dissems. trace cpy specks/aggregates assoc w/ epidote alteration. localized < 2mm discont strgrs of pyrite (T3?). localized curdely baned pink-white-green carb veining (mn-fe-carb +/- chlorite)	98	98	1	0.1	3		2		3	1	2	1		
			99.67	97												
			100.67	95												
385			99	76												
			102.67	95.33												
390			100	95												VN
			100	90.67												
395			100	98.67												
400			100	83.33												VN
			99	88.67												DYKE
405			100	80												
			100	93.33												
410			100	71.67												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508467	376	378	0.017	0.48	386				
3508468	378	380	0.02	0.51	402				
3508469	380	382	0.014	0.48	321	381	117.42	-64.13	Reflex EZ-Gyro
3508471	382	384	0.008	0.35	204				
3508472	384	386	0.018	0.46	301				
3508473	386	388	0.018	0.38	299				
3508474	388	390	0.018	0.51	292				
3508475	390	392	0.024	0.82	237				
3508476	392	394	0.014	0.31	329				
3508477	394	396	0.018	0.4	445				
3508478	396	398	0.062	0.75	779	396.24	117.21	-64.15	Reflex EZ-Gyro
3508479	398	400	0.042	0.57	755				
3508481	400	402	0.008	0.3	254				
3508482	402	404	0.02	0.48	496				
3508483	404	406	0.022	0.27	320				
3508484	406	408	0.018	0.19	276				
3508485	408	410	0.013	0.57	563				
3508486	410	412	0.016	0.74	742				
3508487	412	414	0.017	0.43	581				

Legend

Lith Code

DIOR
Diorite

Structure Type

VN
Vein

DYKE
Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
																							0	108.14	-63.55	Reflex EZ-Gyro
5		0 to 9m: NCOR - 21m casing - no recovery 0-9m.																								
10																										
15																							15.24	108.13	-63.53	Reflex EZ-Gyro
	OVB	9 to 27.1m: OVB - overburden. mixed pebbles and boulders of salt/pepper diorite & andesite. soil/clay matrix loosely consolidates rocks at 25-27.10m.																								
20																										
			24.67	0																						
25			42.67	0																						
			46	0													3508488	27.1	30	0.063	1.06	707				
30																	3508489	30	32	0.03	0.88	585	30.48	107.6	-63.33	Reflex EZ-Gyro
	DIOR	27.1 to 38m: DIOR - DIOR-1. mod-strongly oxidized diorite. protolith is med-grained equigranular hbl-plag salt-and-pepper diorite. ~50/50 2-4mm anhedral to subhedral hbl and plag phenos. mod-str mag throughout. trace sulfides noted in groundmass. mod-hi brk core: locally degraded to soil. oxidation along fracture planes composed mostly of limonite and black Mn-oxides. Locally, XRF returns up to 0.3% Cu along select black oxidized fractures. patchy epidote alteration noted.	101.33	0	0.1	0	3				2		2			FRZ	3508491	32	34	0.081	0.95	661				
35			100	8.67													3508492	34	36	0.313	0.83	495				
			101	4.33													3508493	36	38	0.06	0.76	590				

Legend

Lith Code

- NCOR — No core/lost core
- OVB — Soil Overburden : Undivided surficial materials
- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	27.1 to 38m: DIOR - DIOR-1. mod-strongly oxidized diorite. protolith is med-grained equigranular hbl-plag salt-and-pepper diorite. ~50/50 2-4mm anhedral to subhedral hbl and plag phenos. mod-str mag throughout. trace sulfides noted in groundmass. mod-hi brk core: locally degraded to soil. oxidation along fracture planes composed mostly of limonite and black Mn-oxides. Locally, XRF returns up to 0.3% Cu along select black oxidized fractures. patchy epidote alteration noted.
MZPP	38 to 42m: MZPP - monzonite? grey. texturally obscured. 15-20% 1-4mm anhedral to subhedral feldspars & 3-4% 1-2mm hbl phenos in aphanitic groundmass. <1% ep-filled fracts/strgrs. mod limonite and trace Mn-oxide along fracture planes. trace sulfides (py).
DIOR	42 to 63.95m: DIOR - DIOR-1. strong to intensely oxidized diorite. protolith is med-grained equigranular hbl-plag salt-and-pepper diorite. ~50/50 2-4mm anhedral to subhedral hbl and plag phenos. mod-mag w/ localized mag-destroyed intervals. trace sulfides noted in groundmass. hi brk core - intermittently degraded to soil. oxidation along fracture planes composed mostly of limonite and minor black Mn-oxide. patchy epidote alteration noted on "fresher" core.
DIOR	63.95 to 66m: DIOR - DRPD? med-coarse grained plag-phyric intrusive. 20-25% 2-5mm anhedral to subhedral plagioclase phenos and aggregates in dark green aphanitic groundmass. porphyrytic to locally glomerophyric. texturally similar to DRPD units in MTM. epidote fract coating. weak-moderate limonite oxidation along fracture planes. mod-brk core. trace sulfides
DIOR	66 to 69.25m: DIOR - DIOR-1. wk-moderately oxidized diorite. protolith med-grained equigranular hbl-plag salt-and-pepper diorite. ~50/50 2-4mm anhedral to subhedral hbl and plag phenos. mod-str mag throughout. trace sulfides noted in groundmass. mod-brk core -- oxidation along fracture planes composed mostly of limonite and black Mn-oxides. trace to weak patches of epidote.
ANDS	69.25 to 71.33m: ANDS - andesite? protolith undeterminable. red-brown and med-dark green. strong to intensely oxidized rock. locally degraded to soil and clay. protolith is med-dark green fine-grained andesite volcanics or pyroclastics. trace pyrite as finely dissem grains. ep halos noted along fracts in less oxidized intervals.
APFW	71.33 to 77.35m: APFW - green-grey. plagioclase-phyric andesite (flow?). weak limonite oxidation along select fracts. 20-40% subhedral plag laths 1-3mm in aphanitic groundmass. plag crystals are locally preferentially aligned. (weak trachytic texture). weak ep-carb halos to fracts. scattered <2% 2-4mm subrounded calcite-filled amygudles. trace sulfides as vfg

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
27.1–38	101	4.33	0.1	0	3				2		2		
38–42	100	18	0.1	0					2			2	
42–50	96.67	13.67											
50–55	94.33	11.67											
55–60	100	9											
60–65	101.33	0	0.1	0					1				
65–70	98	0											
70–75	80	0											
75–77.35	55.33	0											
63.95–66	81	0	0.1	0					1				
66–69.25	101.67	13.67	0.1	0					1			1	
69.25–71.33	99	14.33	0.1	0					1				
71.33–77.35	100	29	0.1	0					2			2	
77.35–82	101	47.67											

Structure Type: FRZ (Fracture Zone)

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508493	36	38	0.06	0.76	590
3508494	38	40	0.005	0.17	116
3508496	40	42	0.0025	0.22	94.8
3508497	42	44	0.033	0.53	373
3508498	44	46	0.034	0.64	406
3508499	46	48	0.034	0.99	637
3508501	48	50	0.028	0.64	517
3508502	50	52	0.032	1.16	686
3508503	52	54	0.03	1	655
3508504	54	56	0.023	1.09	759
3508505	56	58	0.015	1.38	790
3508506	58	60	0.032	1.29	786
3508507	60	62	0.036	1.36	845
3508508	62	63.95	0.07	1.38	947
3508509	63.95	66	0.0025	0.2	124
3508511	66	68	0.034	1.02	612
3508512	68	69.25	0.022	0.53	410
3508513	69.25	71.33	0.017	0.55	529
3508514	71.33	73.5	0.008	0.04	33
3508515	73.5	75.5	0.006	0.09	66.2

DH Survey

Depth (m)	Azimuth	Dip	Tool
45.72	107.21	-63.13	Reflex EZ-Gyro
60.96	107.32	-63.15	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- APFW — Andesitic Volcanic Rocks: Px andesite porphyry flow

Structure Type

- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
APFW	71.33 to 77.35m: APFW - green-grey. plagioclase-phyric andesite (flow?). weak limonite oxidation along select fracts. 20-40% subhedral plag laths 1-3mm in aphanitic groundmass. plag crystals are locally preferentially aligned. (weak trachytic texture). weak ep-carb halos to fracts. scattered <2% 2-4mm subrounded calcite-filled amygudles. trace sulfides as vfg scattered py specks. ~0.5% L2 strgrs/vlets. trace P-strgrs.
DIOR	77.35 to 99.64m: DIOR - DIOR-1. green-grey. weak limonite oxidation along fracture planes. medium-grained salt-and-pepper hornblende-plagioclase diorite. ~50/50 anhedral to subhedral 2-4mm hbl & plag phenos. locally repl by 2biotite. mod-strong mag throughout. epidote+/-chlorite halos to fractures and weak to locally moderate patchy silica overprint. 0.5-1% fg pyrite dissems and local discontinuous strgrs. @ 86.8-89m: 0.5-0.7% cpy as dissems and clots < 3mm assoc w/ ep strgrs and local e-veining (mag/qz). trace (<0.1%) cpy as ultra-fine specks assoc w/ epidote elsewhere in the interval.
MFD	99.64 to 108.6m: MFD - Mafic dyke. dark green. medium-grained hornblende phyric dyke. 20-30% 3-6mm subhedral to euhedral stubby hornblende (+/- pyroxenes?) phenocrysts in aphanitic dark green groundmass. partial replacement of hbl with fine-grained biotite. weak patchy epidote alteration as halos to fracts and partial repl of mafics. trace py as scattered specks. ~1% P/L strgrs/vlets -- local blue-green chlorite w/ carb. local gougey infill of fractures. chilled margin observable on lower contact.
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
71.33	101	47.67	0.1	0					2			2	
76.5	100	48.67											
80	100	48	0.5	0.05									
83	100	56.67											
86.8	100	68.33	3	0.6	3		2		3		2	1	2
89	100.67	21.33											
91.44	100	22.33	0.5	0.05									
95	100	61.67											
98.5	101	42											
99.64	100	45	0.1	0	2		1		3		2	2	
103	100	54.33											
106.68	100.67	53	1.5	0.05	1				3	2	2		3
110	100	79											

Structure Type

Depth	Structure Type
71.33	
76.5	FRZ
106.68	CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508515	73.5	75.5	0.006	0.09	66.2
3508516	75.5	77.35	0.006	0.07	101
3508517	77.35	79	0.042	0.93	779
3508518	79	81	0.028	0.54	505
3508519	81	83	0.045	1.62	745
3508521	83	85	0.047	0.39	413
3508522	85	86.8	0.218	2.07	1,519
3508523	86.8	89	0.165	1.81	1,393
3508524	89	91	0.084	0.95	660
3508525	91	93	0.11	1.27	991
3508526	93	95	0.017	0.2	317
3508527	95	97	0.021	0.3	338
3508528	97	98.5	0.026	0.32	363
3508529	98.5	99.64	0.053	0.98	840
3508531	99.64	101	0.008	0.58	337
3508532	101	103	0.17	0.44	259
3508533	103	105	0.044	0.15	149
3508534	105	107	0.012	0.22	197
3508536	107	108.6	0.026	0.37	255
3508537	108.6	111	0.017	0.09	310
3508538	111	113	0.062	0.76	556

DH Survey

Depth (m)	Azimuth	Dip	Tool
76.2	107.35	-63.23	Reflex EZ-Gyro
91.44	107.7	-63.29	Reflex EZ-Gyro
106.68	106.75	-63.3	Reflex EZ-Gyro

Legend

Lith Code

- APFW — Andesitic Volcanic Rocks: Px andesite porphyry flow
- DIOR — Diorite
- MFD — Mafic Dyke

Structure Type

- FRZ — Fracture Zone
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%) 0 100	RQD (%) 0 100	Pyrite (%) 0 10	Chalcopyrite (%) 0 5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
	DIOR	108.6 to 158.25m: DIOR - DIOR-1. green-grey. medium-grained salt-and-pepper hornblende-plagioclase diorite. ~50/50 anhedral to subhedral 2-4mm hbl & plag phenos. weak mag throughout. weak-moderate opro alteration: epidote-chlorite patches and halos to fracts. mod-strong chlorite (after biotite?) halos to p-veining. QSP overprint as texturally destructive halos to carb-quartz vlets/strgrs. 1-2% fg pyrite dissems and local discontinuous strgrs. trace (<0.1%) cpy as ultra-fine specks assoc w/ epidote. trace (<0.1%) E-veining as sporadic pinkish-qz (qz-kf?) strgrs/vlets < 4mm.	100	79	1.5	0.05	1				3	2	2		3	DYKE	3508538	111	113	0.062	0.76	556	121.92	108.01	-63.21	Reflex EZ-Gyro
																	3508539	113	115	0.051	0.44	378				
115			100	87.67													3508541	115	117	0.032	0.3	318				
			100	89.67													3508542	117	119	0.014	0.09	244				
120																	3508543	119	121	0.012	0.05	149				
			100	59													3508544	121	123	0.016	0.38	219				
125			100	67.67													3508545	123	125	0.018	0.11	239				
																	3508546	125	127	0.028	0.05	191				
			100	91.67													3508547	127	129	0.021	0.03	203				
130			100	64													3508548	129	131	0.014	0.08	246				
																	3508549	131	133	0.018	0.1	291				
			100	84													3508551	133	135	0.013	0.01	152				
135																	3508552	135	137	0.018	0.13	260				
			100	89.67													3508553	137	139	0.012	0.01	120	137.16	107.66	-63.25	Reflex EZ-Gyro
140			100	84.33													3508554	139	141	0.036	0.35	400				
			99.33	76													3508555	141	143	0.023	0.04	197				
																	3508556	143	145	0.035	0.23	320				
145			100	60												FRZ	3508557	145	147	0.062	0.87	448				
			100	78.67													3508558	147	149	0.068	0.54	506				
150			99.67	63													3508559	149	151	0.075	0.6	526				

Legend

Lith Code

DIOR
Diorite

Structure Type

DYKE
Dykes (too small for lithology <0.5m wide)

FRZ
Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	108.6 to 158.25m: DIOR - DIOR-1. green-grey. medium-grained salt-and-pepper hornblende-plagioclase diorite. ~50/50 anhedral to subhedral 2-4mm hbl & plag phenos. weak mag throughout. weak-moderate opro alteration: epidote-chlorite patches and halos to fracts. mod-strong chlorite (after biotite?) halos to p-veining. QSP overprint as texturally destructive halos to carb-quartz vlets/strgrs. 1-2% fg pyrite dissems and local discontinuous strgrs. trace (<0.1%) cpy as ultra-fine specks assoc w/ epidote. trace (<0.1%) E-veining as sporadic pinkish-qz (qz-kf?) strgrs/vlets < 4mm.
MFD	158.25 to 160.71m: MFD - Mafic dyke. texture slightly obscured due to alteration. dark green. medium-coarse grained hornblende phyric dyke. 20-30% 3-7mm subhedral to euhedral stubby hornblende (+/- pyroxenes?) phenocrysts in aphanitic dark green groundmass. phenos replaced by epidote-carbonate. epidote-carb halos to fracts and ep-carb strgrs. pervasive wk-mod silica overprint. trace py specks. ~2-3% P strgrs/vlets. minor chilled margin observable on lower contact.
DIOR	160.71 to 179.55m: DIOR - DIOR-1. med-grey w/ patchy green. fine-medium grained salt-and-pepper hornblende-plagioclase diorite. ~50/50 anhedral to subhedral 1-2mm hbl & plag phenos. moderate mag throughout. weak opro alteration: epidote-chlorite patches and halos to fracts. mod-strong patchy QSP overprint. 1-2% fg pyrite dissems and local discontinuous strgrs. trace (<0.1%) cpy as ultra-fine specks assoc w/ epidote. trace (<0.1%) E-veining as sporadic pinkish-qz (qz-kf?) strgrs/vlets < 4mm.
DIOR	179.55 to 183.21m: DIOR - DRPD? med-coarse grained plag-phyric intrusive. 20-25% 2-5mm anhedral to subhedral plagioclase phenos and aggregates in dark green aphanitic groundmass. porphyrytic to locally glomerophyric. epidote fracutre halos and fract coating. ~1% pyrite as fg disseminations
DIOR	183.21 to 192m: DIOR - DIOR-1. fracture zone. trace rock flour and gouge along select fract planes. light-grey w/ patchy green. fine-medium grained salt-and-pepper hornblende-plagioclase diorite. ~50/50 anhedral to subhedral 1-2mm hbl & plag phenos. variably weak mag throughout. pervasive moderate silica alteration overprint of opro alteration. relict ep-chl patches and

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
108.6–158.25	99.67	63	1.5	0.05	1				3	2	2		3
	100.67	91.33											
	100	59.33											
158.25–160.71	100	82.33	0.1	0					3		2	2	3
160.71–179.55	100	77	1	0.05	3				2		2	1	3
	99.33	10.67											
	100.67	32.33											
	100	59.33											
	100	54											
	100.67	76											
179.55–183.21	100	70.67	1	0					2		1	1	2
183.21–192	100	10	1	0					2		1	2	3
	100	14.67											

Structure Type

Structure Type	Depth
CN	160.71
FRZ	165.71–169.05
CN	178.18
CN	182.88
FRZ	183.21–187.53

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508559	149	151	0.075	0.6	526
3508561	151	153	0.036	0.09	187
3508562	153	155	0.032	0.13	163
3508563	155	157	0.033	0.21	196
3508564	157	158.25	0.048	0.22	232
3508565	158.25	159.5	0.028	0.25	244
3508566	159.5	160.71	0.02	0.08	125
3508567	160.71	163	0.039	0.23	252
3508568	163	165	0.075	0.36	383
3508569	165	167.05	0.053	0.33	234
3508571	167.05	169	0.089	0.13	191
3508572	169	171	0.088	0.26	264
3508573	171	173	0.057	0.23	249
3508574	173	175	0.036	0.2	211
3508576	175	177	0.081	0.46	464
3508577	177	178.18	0.088	0.74	714
3508578	178.18	179.55	0.126	0.74	880
3508579	179.55	181.5	0.027	0.22	234
3508581	181.5	183.21	0.029	0.15	195
3508582	183.21	185	0.08	0.95	555
3508583	185	187	0.19	1.53	1,100
3508584	187	189	0.073	0.6	557

DH Survey

Depth (m)	Azimuth	Dip	Tool
152.4	107.53	-63.23	Reflex EZ-Gyro
167.64	108.51	-63.11	Reflex EZ-Gyro
182.88	110.86	-63.11	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- MFD — Mafic Dyke

Structure Type

- CN — Contact
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	183.21 to 192m: DIOR - DIOR-1. fracture zone. trace rock flour and gouge along select fract planes. light-grey w/ patchy green. fine-medium grained salt-and-pepper hornblende-plagioclase diorite. ~50/50 anhedral to subhedral 1-2mm hbl & plag phenos. variably weak mag throughout. pervasive moderate silica alteration overprint of opro alteration. relict ep-chl patches and fracture coating. ~1% fg pyrite dissems and local discontinuous strgrs. trace e-veining as pinkish-grey qz+/-kf strgrs.
DIOR	192 to 211.5m: DIOR - DIOR-1. light-med grey-green. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 anhedral to subhedral hbl-plag phenos. weak - mod magnetic. QSP overprint as alteration halos to carb-qz+/-chl vlets/veins <1cm. trace (<0.1%) cpy as specks assoc w/ epidote. trace E-veining as pinkish-grey qz stringers < 5mm. fg pyrite dissems (~1%) and localized vein fill w/ carb-chl.
DIOR	211.5 to 215.2m: DIOR - ZONE?. strongly altered interval. interval hosts intermittent low-angle (to core axis) carb-hematite-pyrite-chlorite veins. protolith is most likely hbl-plag equiranular salt-pepper diorite (texture is obscured by strong to intense alteration). interval is cross-cut by peripheral (ep-chl-carb) stringers and later-stage carb-hem-py-chl veins. strong chlorite (after biotite?) alteration halos noted along peripheral-strgrs. strong sericite alteration halos to carb-hem-py-chl veining. XRF results from hem-bearing veins return high Mo and Cu readings.
DIOR	215.2 to 223.23m: DIOR - DIOR-1. med grey-green. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 anhedral to subhedral hbl-plag phenos. weak-moderately magnetic. weak chl-ep alteration halos to fracts. intermittent stringers of hem-qz-carb < 3mm w/ local kfs halos. trace (<0.1%) cpy as specks assoc w/ epidote-chl. trace E-veining as pinkish-grey qz stringers < 5mm. fg pyrite dissems (~1%) and localized discontinuous strgrs < 2mm.
ANDS	223.23 to 224.55m: ANDS - dark to blackish green. fine-grained andesite(?). texture obscured by alteration. strong to intense pervasive chlorite alteration. weak ep halos to fracts and stringers. mod pyrite mineralization (5-7%) as fg-mg dissems and grain aggregates. trace pyrite discont strgrs <2mm. hematite along fracture planes.
HYBX	

Geotechnical / Mineralisation

Depth (m)	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)
190	100	14.67	1	0
	100	14		
195	100	42		
	100	39		
200	100	48.67		
	100	87.67	1	0.01
205	100	85		
	100	86		
210	100	40.67		
	100.67	52.33	5	0.2
215	100	66.67		
	100	39	1.5	0.01
220	100	37	7	0
225	100	72	4	0.1

Alteration Mineral Intensity

Depth (m)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
190					2		1	2	3	FRZ
195										
200	1				2	2	2	1	3	FL
205										
210										
215						4	4	1	2	HYBX
220	3	1			2		2	1	2	
225					2		4			CN
						4	3	2	1	HYBX

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508584	187	189	0.073	0.6	557
3508585	189	190.5	0.051	0.18	249
3508586	190.5	192	0.151	16.63	1,235
3508587	192	194	0.027	0.27	258
3508588	194	196	0.043	0.33	358
3508589	196	198	0.013	0.18	223
3508591	198	200	0.042	0.52	483
3508592	200	202	0.035	0.42	321
3508593	202	204	0.044	0.28	309
3508594	204	206	0.052	0.55	459
3508595	206	208	0.015	0.24	188
3508596	208	210	0.018	0.37	313
3508597	210	211.5	0.006	0.65	464
3508598	211.5	213	0.101	3.29	1,433
3508599	213	215.2	0.029	3.11	1,421
3508601	215.2	217	0.021	0.65	445
3508602	217	219	0.008	0.47	291
3508603	219	221	0.021	0.4	358
3508604	221	223.23	0.024	0.3	390
3508605	223.23	224.55	0.0025	0.4	388
3508606	224.55	226	0.307	0.68	376

DH Survey

Depth (m)	Azimuth	Dip	Tool
198.12	108.68	-63.13	Reflex EZ-Gyro
213.36	108.51	-63.12	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- HYBX — MBX and SS Stocks: Hydrothermal breccia

Structure Type

- FRZ — Fracture Zone
- FL — Fault
- HYBX — Hydrothermal Breccia
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
HYBX	224.55 to 229.1m: HYBX - pale green. strongly altered rock. interval hosts intermittent low-angle (to core axis) grey-white carb-hematite-chlorite+/-pyrite veins. protolith is most likely hbl-plag equiranular salt-pepper diorite (texture is obscured by strong to intense alteration). interval is cross-cut by multiple low-angle later-stage(?) carb-hem-chl+/-py veins. strong sericite alteration throughout as halos to veining. trace cpy as specks along vein wall
DIOR	229.1 to 238.75m: DIOR - DIOR-1. med grey-green. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 anhedral to subhedral hbl-plag phenos. variable weak to strongly magnetic. weak patchy ep-chl alteration of gmass and as halos to fracts. intermittent QSP overprint as envelopes to late-stage carb-qz strgrs/vlets. trace cpy as specks assoc w/ epidote. fg pyrite dissems (~1-2%) and localized discontinuous strgrs < 2mm assoc w/ ep
DIOR	238.75 to 241.35m: DIOR - dark green. diorite/andesite dyke?. faulted upper contact. <10% subhedral plag phenos 2-4mm in aphanitic dark green groundmass. ep-carb halos to fracts. fg pyrite dissems and grains assoc w/ ep. localized ~4cm ~25degrees tca carb-chl-hem (late-stage?) vein @ 241.10m w/ cpy clots < 4mm.
DIOR	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
224.55	100	72	4	0.1						4	3	2	1
229.1	100	67.33							2	3	2	1	3
230	100	24	1.5	0.1									
235	100	60.67											
238.75	100	50.67											
240	100	47.67	0.5	0.1					2			2	
245	100	87.67											
	100	94.67											
250	100	91.33											
	100	85.33	2	0.1	3		2		3		2	1	
255	100	88.67											
260	100.67	87.33											
	100	88											

Structure Type

HYBX, FL, FRZ, FL, FL

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508606	224.55	226	0.307	0.68	376
3508607	226	227.59	0.164	1.18	512
3508608	227.59	229.1	0.012	0.84	127
3508609	229.1	231	0.07	0.41	223
3508611	231	233	0.069	0.72	382
3508612	233	235	0.06	0.72	373
3508613	235	237	0.012	0.49	413
3508614	237	238.75	0.029	0.91	732
3508616	238.75	240	0.015	0.25	54.6
3508617	240	241.35	0.0025	0.72	221
3508618	241.35	242.5	0.028	1.18	733
3508619	242.5	244	0.074	2.32	1,072
3508621	244	246	0.024	1.14	761
3508622	246	248	0.018	0.54	498
3508623	248	250	0.028	0.59	493
3508624	250	252	0.049	0.78	701
3508625	252	254	0.053	0.81	778
3508626	254	256	0.03	0.42	320
3508627	256	258	0.017	0.58	578
3508628	258	260	0.016	0.38	494
3508629	260	262	0.013	0.21	282
3508631	262	264	0.039	0.49	600

DH Survey

Depth (m)	Azimuth	Dip	Tool
228.6	109.28	-63.02	Reflex EZ-Gyro
243.84	108.59	-63.11	Reflex EZ-Gyro
259.08	108.02	-63.14	Reflex EZ-Gyro

Legend

Lith Code

- HYBX — MBX and SS Stocks: Hydrothermal breccia
- DIOR — Diorite

Structure Type

- HYBX — Hydrothermal Breccia
- FL — Fault
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
265	DIOR	241.35 to 311m: DIOR - DIOR-1. green and grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos partially repl by black to locally brownish biotite. weak-mod patchy ep-chl alteration of gmass and as halos to fracts. fg pyrite dissems in groundmass. trace cpy as specks assoc w/ epidote. and late carb-chl stringers	100	88	2	0.1	3		2		3		2	1		HYBX
			100	82												
			100	65.67												
270			100	95												
			100	73.67												
275			100	46.67												
			100	60.33												
280			100.67	46												
			100.67	55.67												
285			100	86												
			100	86												
290			100	83												
			100	80.33												
295			100	66.33												FL
300																

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508631	262	264	0.039	0.49	600
3508632	264	266	0.032	0.45	464
3508633	266	268	0.008	0.47	429
3508634	268	270	0.0025	0.31	245
3508635	270	272	0.014	0.8	356
3508636	272	274	0.03	0.73	830
3508637	274	276	0.031	0.66	692
3508638	276	278	0.01	0.37	312
3508639	278	280	0.01	0.64	603
3508641	280	282	0.021	0.51	525
3508642	282	284	0.028	1.95	780
3508643	284	286	0.037	0.7	706
3508644	286	288	0.028	0.64	590
3508645	288	290	0.032	0.48	512
3508646	290	292	0.065	1.23	1,324
3508647	292	294	0.032	0.54	623
3508648	294	296	0.038	0.72	790
3508649	296	298	0.035	0.64	652
3508651	298	300	0.06	0.58	672
3508652	300	302	0.08	1.08	1,171

Depth (m)	Azimuth	Dip	Tool
274.32	108.35	-63.22	Reflex EZ-Gyro
289.56	108.69	-63.25	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- HYBX — Hydrothermal Breccia
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

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Depth	Lith Code	Description	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
305	DIOR	241.35 to 311m: DIOR - DIOR-1. green and grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos partially repl by black to locally brownish biotite. weak-mod patchy ep-chl alteration of gmass and as halos to fracts. fg pyrite dissems in groundmass. trace cpy as specks assoc w/ epidote. and late carb-chl stringers	100	66.33	2	0.1	3		2		3		2	1		
			100	63.67												
			100.67	79.33												
310			100	89												CN
315	HYBX	311 to 317.67m: HYBX - MAGMATIC-HYDROTHERMAL BRECCIA. matrix-supported chaotic breccia (dyke related). 30-40% subrounded opro altered meso&leucocratic diorite clasts (poorly sorted 0.5 to 40cm) in magmatic-hydrothermal matrix/cement: magmatic component of matrix is plag-phyric monzonite porphyry (20-25% 2-4mm anhedral to subhedral plag phenos in aphanitic grey groundmass). hydrothermal cement component is composed of clots of epidote-chlorite-pyrite intermixed with monzonite.	100	65.67	4	0	2				3		3	1		
			100	75.67												CN
320	DIOR	317.67 to 321.71m: DIOR - DIOR-1. green and grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. weak-mod patchy ep-chl alteration of gmass and as halos to fracts. fg pyrite dissems in groundmass and py strgrs w/ ep-chl halos	100	67.67	2	0	3		1		3		2			
			100	80.67												CN
325	MZPP	321.71 to 328.82m: MZPP - green-grey. fsp-phryic monzonite. 25-35% 2-4mm anhedral to subhedral white to grey fsp phenocrysts in aphanitic dark green-grey groundmass. weak-moderate epidote-carbonate alteration as halos to carb-ep+/-chlorite strgrs/vlets and fractures. fine-grained pyrite disseminations ~2%. <0.5% as stringers assoc w/ chl-ep. trace cpy as vfg specks and isolated clot ~321.8m assoc w/ ep alteration/strgrs.	99.33	62.67	2.5	0.1					2		2	1		
			100	51												CN
330	DIOR		100	68	1	0.05	3		2		3		3	1		
335			100	62												
			100	90.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3508652	300	302	0.08	1.08	1,171	304.8	108.17	-63.25	Reflex EZ-Gyro
3508653	302	304	0.081	0.91	1,121				
3508654	304	306	0.05	1.05	1,094				
3508656	306	308	0.064	1.11	1,234				
3508657	308	309.5	0.043	0.63	782				
3508658	309.5	311	0.055	0.7	933				
3508659	311	313	0.006	0.18	267				
3508661	313	315.33	0.0025	0.15	212				
3508662	315.33	317.67	0.013	0.39	574				
3508663	317.67	319.7	0.019	0.43	424	320.04	109.96	-63.28	Reflex EZ-Gyro
3508664	319.7	321.71	0.009	0.23	272				
3508665	321.71	324	0.0025	0.06	105				
3508666	324	326	0.0025	0.06	112				
3508667	326	327.41	0.0025	0.1	98				
3508668	327.41	328.82	0.0025	0.12	151				
3508669	328.82	331	0.022	0.52	539				
3508671	331	333	0.018	0.64	524				
3508672	333	335	0.02	0.46	395	335.28	111.07	-63.29	Reflex EZ-Gyro
3508673	335	337	0.02	0.33	368				
3508674	337	339	0.009	0.59	418				

Legend

Lith Code

- DIOR — Diorite
- HYBX — MBX and SS Stocks: Hydrothermal breccia
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lithology: Lith Code	Lithology: Description	Geotechnical: Recovery (%) 0 100	Geotechnical: RQD (%) 0 100	Mineralisation: Pyrite (%) 0 10	Mineralisation: Chalcopyrite (%) 0 5	Alteration Mineral Intensity: Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
340	DIOR	328.82 to 392.45m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos partially repl by black biotite. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. local strong dark-green chlorite halos to ep-carb strgrs/vlets. fg pyrite dissems in groundmass. trace (<0.1%) cpy specks assoc w/ epidote and late carb-chl stringers. <1% late white carb vlets/strgrs (locally intergrown with red-brown fe-carb).	100	90.67	1	0.05	3		2		3		3	1		
			100	61												
			100.33	83.33												
345			99.67	86												
350			100	94												
			100	86.67												
355			100	89.67												
			100	90.67												
360			100	90.67												
365			100	97.33												
			100	100												
370			100	98												
			100	92.67												
375			100	92.67												

Assays: SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	DH Survey: Depth (m)	Azimuth	Dip	Tool
3508674	337	339	0.009	0.59	418				
3508675	339	341	0.023	0.45	379				
3508676	341	343	0.018	0.84	579				
3508677	343	345	0.047	0.59	542				
3508678	345	347	0.052	0.38	422				
3508679	347	349	0.054	0.72	558				
3508681	349	351	0.035	0.44	375	350.52	109.89	-63.26	Reflex EZ-Gyro
3508682	351	353	0.028	0.95	628				
3508683	353	355	0.026	0.4	385				
3508684	355	357	0.073	1.13	861				
3508685	357	359	0.026	0.67	504				
3508686	359	361	0.037	0.85	584				
3508687	361	363	0.064	0.88	618				
3508688	363	365	0.043	0.69	539				
3508689	365	367	0.029	0.37	325	365.76	109.2	-63.28	Reflex EZ-Gyro
3508691	367	369	0.019	0.77	448				
3508692	369	371	0.031	0.75	495				
3508693	371	373	0.044	1.09	702				
3508694	373	375	0.066	0.75	592				
3508696	375	377	0.04	1.5	658				

Legend

Lith Code

DIOR Diorite

Structure Type

VN Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%) 0–100	RQD (%) 0–100	Pyrite (%) 0–10	Chalcopyrite (%) 0–5	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
380	DIOR	328.82 to 392.45m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos partially repl by black biotite. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. local strong dark-green chlorite halos to ep-carb strgrs/vlets. fg pyrite dissems in groundmass. trace (<0.1%) cpy specks assoc w/ epidote and late carb-chl stringers. <1% late white carb vlets/strgrs (locally intergrown with red-brown fe-carb).	100	92.67	1	0.05	3		2		3		3	1		
			99.33	90.67												
			100	90.33												
385			100	86.67												
			100	80.67												
390			100	100												
395	DIOR	392.45 to 408.56m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-4mm anhedral tao subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos partially repl by black biotite (10-15% bt throughout). weak patchy ep+/-chl alteration of gmass and as halos to fracts & epidote stringers. local strong dark-green chlorite(?) halos to late carb+/-chl-ep veinlets. pyrite as finely disseminated grains. trace (<0.1%) cpy specks assoc w/ epidote and late carb-chl stringers. localized ~3cm semi-massive med-grained pyrite vein @ 406.85m	100	100	1	0.01	3		3		3		3	1		
			99.67	87												VN
400			100	98.33												
			100	93.33												
405			99.67	81												
410	DIOR	408.56 to 419.8m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-3mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos locally partially repl by biotite. weak-mod	99.33	81.33	1	0.01	3		1		3		3	1	2	FL
			100	62.67												
			100	48.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508696	375	377	0.04	1.5	658
3508697	377	379	0.029	0.8	406
3508698	379	381	0.097	0.86	597
3508699	381	383	0.041	0.63	439
3508701	383	385	0.056	0.85	626
3508702	385	387	0.032	0.57	515
3508703	387	389	0.03	0.38	303
3508704	389	391	0.035	0.46	406
3508705	391	392.45	0.07	0.4	458
3508706	392.45	394	0.128	0.52	587
3508707	394	396	0.024	0.36	277
3508708	396	398	0.028	0.38	320
3508709	398	400	0.074	0.51	524
3508711	400	402	0.055	0.47	492
3508712	402	404	0.03	0.4	445
3508713	404	406.28	0.015	0.53	478
3508714	406.28	408.56	0.016	0.56	413
3508715	408.56	410	0.016	1.39	907
3508716	410	412	0.077	1.59	1,042
3508717	412	414	0.017	0.55	496
3508718	414	416	0.026	0.39	463

DH Survey Depth (m)	Azimuth	Dip	Tool
381	110.34	-63.21	Reflex EZ-Gyro
396.24	109.32	-63.22	Reflex EZ-Gyro
411.48	110.17	-63.19	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- VN — Vein
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Lithology

Lith Code	Description
DIOR	408.56 to 419.8m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-3mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. hbl phenos locally partially repl by biotite. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. local strong dark-green chlorite halos to ep-carb strgrs/vlets. patchy wk silica overprint. fg pyrite dissems in groundmass. trace (<0.1%) cpy specks assoc w/ epidote.
DIOR	419.8 to 429.75m: DIOR - fault/fracture zone. protolith DIOR-1: green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic throughout. mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. patchy wk-mod silica overprint. fg pyrite dissems in groundmass. local gougey intervals <50cm -- weakly consolidated cataclastic segments of 30-35% poorly sorted angular fragments < 3cm in graular clay-rockflour matrix. trace (<0.1%) cp specks
DIOR	429.75 to 458.1m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-3mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. intermittently cross-cut by fine-grained melanocratic micro-diorite(?) dykes/dykelets -- compositionally similar but much finer-grained in texture. medium grey-green equigranular hbl diorites with average grain size of 1mm or less. weak pyrite as vfg disseminations.

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
415	100	48.67	1	0.01	3		1		3		3	1	2	
	100.67	66.67												
420	100	8	1	0.01	3				3		2	1	3	FRZ
	100.67	31.67												
425	99	34.67												
430	100	24	0.5	0	3				3		2	1		
	99.33	65												
435	100	70.33												DYKE
	100	67.33												DYKE
440	101	89.33												DYKE
	100.67	88.67												DYKE
445	100.33	100.33												DYKE
450	100	98												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508718	414	416	0.026	0.39	463
3508719	416	418	0.054	0.45	643
3508721	418	419.8	0.046	0.34	395
3508722	419.8	422	0.043	0.76	575
3508723	422	424	0.007	0.55	482
3508724	424	426	0.022	0.47	417
3508725	426	428	0.048	0.63	478
3508726	428	429.75	0.031	0.34	308
3508727	429.75	432	0.013	0.67	473
3508728	432	434	0.028	0.68	530
3508729	434	436	0.023	0.41	342
3508731	436	438	0.03	0.44	335
3508732	438	440	0.013	0.34	272
3508733	440	442	0.034	0.31	325
3508734	442	444	0.036	0.58	529
3508736	444	446	0.041	0.18	167
3508737	446	448	0.024	0.23	172
3508738	448	450	0.017	0.15	161
3508739	450	452	0.015	0.12	141

DH Survey

Depth (m)	Azimuth	Dip	Tool
426.72	108.99	-63.23	Reflex EZ-Gyro
441.96	108.51	-63.3	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- FRZ — Fracture Zone
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
455	DIOR	429.75 to 458.1m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-3mm anhedral to subhedral hbl-plag phenos. mod to strongly magnetic. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. intermittently cross-cut by fine-grained melanocratic micro-diorite(?) dykes/dykelets -- compositionally similar but much finer-grained in texture. medium grey-green equigranular hbl diorites with average grain size of 1mm or less. weak pyrite as vfg disseminations.	100	98												
			99.33	92.67	0.5	0	3				3		2	1		DYKE
			100.67	86												
460	MZPP	458.1 to 460.6m: MZPP - monzonite? green. feldspar porphyrytic: 35-40% 1-3mm subhedral to euhedral laths of plagioclase in aphanitic green groundmass. OPRO alteration as epidote halos to fractures and joints. patchy chlorite alteration of groundmass. mod magnetic throughout. 0.5% p-strgrs. <0.5% carb (calcite intergrown w/ red-brown fe-carb). fg pyrite disseminations.			0.5	0	3				3		3	1		CN
			100	92												CN
			99.33	88												
465			94.67	64.67												
470			100	81.67												
			100	88.67												
475	DIOR		100	73.67	1	0.01	3				3		2	1	2	
			100	72.67												VN
480			100	90.33												
485			99.33	94.33												
			100	84												
			100	72.67												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	DH Survey Depth (m)	Azimuth	Dip	Tool
3508739	450	452	0.015	0.12	141				
3508741	452	454	0.01	0.22	208				
3508742	454	456	0.058	1.16	1,317				
3508743	456	458.1	0.007	0.01	228	457.2	110.2	-63.21	Reflex EZ-Gyro
3508744	458.1	460.6	0.0025	0.31	212				
3508745	460.6	462	0.01	0.38	209				
3508746	462	464	0.014	0.28	198				
3508747	464	466	0.189	2.4	2,773				
3508748	466	468	0.172	4.68	5,403				
3508749	468	470	0.0025	0.39	367				
3508751	470	472	0.011	0.34	194				
3508752	472	474	0.011	0.26	143	472.44	110.43	-63.15	Reflex EZ-Gyro
3508753	474	476	0.016	0.29	243				
3508754	476	478	0.015	0.37	343				
3508755	478	480	0.005	0.25	184				
3508756	480	482	0.031	0.6	565				
3508757	482	484	0.035	0.53	476				
3508758	484	486	0.019	0.28	239				
3508759	486	488	0.017	0.28	209	487.68	110.31	-62.67	Reflex EZ-Gyro
3508761	488	490	0.009	0.14	131				

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
490	DIOR	460.6 to 528.2m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts. mod to strongly magnetic. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. localized patches of wk-mod silica overprint. intermittently cross-cut by fine-grained melanocratic micro-diorite(?) dykes/dykelets -- compositionally similar but much finer-grained in texture (medium grey-green equigranular hbl diorites with average grain size of 1mm or less). weak pyrite as fg disseminations and rare med-grained semi-massive pyrite-carbonate veins <1cm. rare specks of cpy associated w/ epidote strgrs and epidote alteration. local white & red-brown carbonate veins (calcite & fe-carb) crudely banded with epidote and chlorite	100	72.67	1	0.01	3				3		2	1	2
495			100	84.33											
			100	61.67											
500			100	48.67											
505			100	66											
510			100	80											
			100	84.67											
			99.33	72.33											
515			100	56											
			100.67	33											
520			100	34											
			100	38											
525			100	82.67											

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
	3508761	488	490	0.009	0.14	131				
VN	3508762	490	492	0.0025	0.29	249				
	3508763	492	494	0.0025	0.17	104				
	3508764	494	496	0.008	0.4	252				
	3508765	496	498	0.009	0.16	111				
DYKE	3508766	498	500	0.0025	0.25	228				
VN	3508767	500	502	0.005	0.2	175				
	3508768	502	504	0.0025	0.16	136	502.92	110.93	-62.66	Reflex EZ-Gyro
	3508769	504	506	0.0025	0.22	142				
	3508771	506	508	0.012	0.22	192				
	3508772	508	510	0.04	0.26	217				
	3508773	510	512	0.031	0.28	304				
FL	3508774	512	514	0.0025	0.33	351				
	3508776	514	516	0.005	0.22	178				
	3508777	516	518	0.005	0.25	194				
	3508778	518	520	0.01	0.23	183	518.16	109.76	-62.68	Reflex EZ-Gyro
	3508779	520	522	0.01	0.47	381				
	3508781	522	524	0.0025	0.24	198				
	3508782	524	526.1	0.013	0.26	195				
	3508783	526.1	528.2	0.0025	0.15	154				

Legend

Lith Code

- DIOR — Diorite

Structure Type

- VN — Vein
- DYKE — Dykes (too small for lithology <0.5m wide)
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

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Lithology

Lith Code	Description
DIOR	460.6 to 528.2m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts. mod to strongly magnetic. weak-mod patchy ep+/-chl alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. localized patches of wk-mod silica overprint. intermittently cross-cut by fine-grained melanocratic micro-diorite(?) dykes/dykelets -- compositionally similar but much finer-grained in texture (medium grey-green equigranular hbl diorites with average grain size of 1mm or less). weak pyrite as fg disseminations and rare med-grained semi-massive pyrite-carbonate veins <1cm. rare specks of cpy associated w/ epidote strgrs and epidote alteration. local white & red-brown carbonate veins (calcite & fe-carb) crudely banded with epidote and chlorite
FALT	528.2 to 529.45m: FALT - protolith diorite? low-angle to core-axis (~10 degrees). mod-hi broken core. clay altered angular fragments of wall rock average < 10cm. interval approx 15% rock flour and gouge & ~85% broken rock frags. mod-strong chlorite-clay+/-carb alteration. fg-mg pyrite as disseminated grains / clots < 1cm and semi-massive py-carb veins/vlets -- parallel to fault plane.
DIOR	529.45 to 582m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-3mm anhedral to subhedral hbl-plag phenocrysts. mod to strongly magnetic (magnetite as disseminated grains and as irregular clots upto 4cm wide) . weak-mod patchy ep+/-chl (+ trace patchy albite) alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. localized patches of mod silica overprint. intermittently cross-cut by fine-grained melanocratic micro-diorite(?) dykes/dykelets -- compositionally similar but much finer-grained in texture (medium grey-green equigranular hbl diorites with average grain size of 1mm or less). weak pyrite as fg disseminations and rare massive py stringers < 5mm. rare specks of cpy associated w/ epidote alteration. localized intermittent weakly shear-foliated intervals @ 175-178m w/ strong epidote altération / veining.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	0 100	0 100	0 10	0 5									
	100	82.67	1	0.01	3				3		2	1	2
	100	31.33	3.5	0					3		4	3	
	100	83.33											
	100	89.33											
	99.67	55.33											
	100	75.67											
	100	86.67											
	100	98.67	1.5	0	3			1	3		2	1	
	100	94.67											
	100	87.33											
	100	92.67											
	100.67	88.67											
	100	84.33											
	100	44											

Assays

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
	3508783	526.1	528.2	0.0025	0.15	154
FL	3508784	528.2	529.45	0.023	1.14	1,507
	3508785	529.45	531	0.014	0.28	325
	3508786	531	533	0.012	0.47	269
	3508787	533	534.5	0.0025	0.24	116
	3508788	534.5	536	0.014	0.2	120
	3508789	536	538	0.013	0.15	129
DYKE	3508791	538	540	0.008	0.16	148
	3508792	540	542	0.0025	0.11	102
	3508793	542	544	0.011	0.09	110
	3508794	544	546	0.007	0.28	281
	3508795	546	548	0.005	0.11	109
	3508796	548	550	0.0025	0.18	109
	3508797	550	552	0.015	0.33	206
	3508798	552	554	0.01	0.23	227
	3508799	554	556	0.022	0.26	310
	3508801	556	558	0.014	0.19	301
	3508802	558	560	0.018	0.27	466
	3508803	560	562	0.005	0.12	102
	3508804	562	564	0.01	1.93	118
FRZ	3508805	564	566	0.016	0.24	171

DH Survey

Depth (m)	Azimuth	Dip	Tool
533.4	110.31	-62.64	Reflex EZ-Gyro
548.64	111.93	-62.5	Reflex EZ-Gyro
563.88	111.7	-62.46	Reflex EZ-Gyro

Legend

Lith Code
- DIOR — Diorite
- FALT — Fault

Structure Type
- FL — Fault
- DYKE — Dykes (too small for lithology <0.5m wide)
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-032	Max	582	05-Oct-2020	11-Oct-2020	431174.142	6087116.35	1231.489	108.14	-63.55	NQ	John Tejada	

Purpose

Testing the northern portion of the inferred porphyry geophysics target, in the chargeability high of the Ring anomaly. The DDH was collared ~270 m north of MAX20-031. On cross-section the DDH collars into a chargeability low until ~165 m with a sharp contact to a chargeability high cap from 165-450 m, which becomes moderate at depth (inferred porphyry target underlying pyrite halo). The upper chargeability low is associated with a resistivity low, the chargeability high with a moderate-high resistivity and the lower moderate charg to EOH associated with low to moderate resistivity. The collar location is coincident with a Cu-Au-Mo normalized soil geochem anomaly.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
570	DIOR	529.45 to 582m: DIOR - DIOR-1. green-grey. medium grained hbl-plag salt-pepper equigranular diorite. ~50/50 2-3mm anhedral to subhedral hbl-plag phenocrysts. mod to strongly magnetic (magnetite as disseminated grains and as irregular clots upto 4cm wide) . weak-mod patchy ep+/-chl (+ trace patchy albite) alteration of gmass and as halos to fracts & ep+/-carb-chl stringers. localized patches of mod silica overprint. intermittently cross-cut by fine-grained melanocratic micro-diorite(?) dykes/dykelets -- compositionally similar but much finer-grained in texture (medium grey-green equigranular hbl diorites with average grain size of 1mm or less). weak pyrite as fg disseminations and rare massive py stringers < 5mm. rare specks of cpy associated w/ epidote alteration. localized intermittent weakly shear-foliated intervals @ 175-178m w/ strong epidote alteration / veining.	100	44	1.5	0	3			1	3		2	1		
			100.33	50.67												
			100	59.67												
575			100	53.67												
			100	15	2.5	0.01										SZ
580			100	61.67	0.5	0										

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508805	564	566	0.016	0.24	171
3508806	566	568	0.009	0.16	138
3508807	568	570	0.008	0.33	281
3508808	570	572	0.011	0.46	334
3508809	572	573.5	0.013	0.68	468
3508811	573.5	575	0.005	0.64	473
3508812	575	577	0.01	0.78	617
3508813	577	578.5	0.009	0.28	282
3508814	578.5	580	0.016	1.24	1,270
3508816	580	582	0.0025	0.17	138

DH Survey: Depth (m), Azimuth, Dip, Tool

Legend

Lith Code

DIOR — Diorite

Structure Type

SZ — Shear Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
	0 to 9m: NCOR - no core recovered - drillhole cased to 12m
OVB	9 to 13m: OVB - drillhole cased to 12m. recovery starts at 9m. 9-13m overburden: boulders and pebbles of andesite and diorite. no soil or clay.
DIOR	13 to 30m: DIOR - DIOR-1. grey-green. mod-strong oxidized zone. weakly weathered and moderately broken core. fine-med grained hbl-plag equigranular salt-and-pepper diorite. ~50/50 1-3mm anhedral to subhedral hbl-plag phenocrysts. localized intervals < 50cm that are degraded to soil & clay. mod-strong limonite / Mn-O oxidation along fracture planes. weak epidote as patchy alteration -- halos to hairline fractures. fine-grained pyrite as wk dissem in groundmass and mod halo disseminations along ep-carb strgrs.
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
9	12	0												
12	69.33	16.67												
13.5	101	15.33												
15	99	30												
16.5	101	6.67	1	0					2			1		
18	99.33	11.33												
19.5	99.33	8												
21	100	11.67												
22.5	100	0	1	0	3				2			1		
24	100	22												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508817	13	15	0.023	0.34	101
3508818	15	17	0.009	0.14	98.9
3508819	17	19	0.009	0.16	92.9
3508821	19	21	0.012	0.17	146
3508822	21	23	0.01	0.24	174
3508823	23	25	0.009	0.16	128
3508824	25	27	0.024	0.28	297
3508825	27	29	0.01	0.14	115
3508826	29	30	0.011	0.2	140
3508827	30	32	0.0025	0.15	114
3508828	32	34	0.0025	0.17	135
3508829	34	36	0.0025	0.19	148
3508831	36	38	0.009	0.21	179

DH Survey

Depth (m)	Azimuth	Dip	Tool
0	117.41	-54.31	Reflex EZ-Gyro
15.24	116.7	-54.57	Reflex EZ-Gyro
30.48	116.53	-54.65	Reflex EZ-Gyro

Legend

Lith Code

- NCOR — No core/lost core
- OVB — Soil Overburden : Undivided surficial materials
- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
DIOR	30 to 71.17m: DIOR - DIOR-1. slightly finer-grained than typical, grey. weak-mod limonite oxidation along fracture planes. ~50/50 equigranular anhedral to subhedral 1-2mm hbl-plag phenos. local < 10cm intervals of coarse-grained hbl phenos to 8mm. weak epidote halos to fracture planes and weak epidote-veining (strgrs < 2mm). localized dykes/dykelets of leucocratic equigranular hbl-plag diorite < 1m. mod broken core and wk fractured. weak pyrite mineralization as sparse finely disseminated grains.
DIOR	71.17 to 77.73m: DIOR - DIOR-1. green & grey-white. med-grained equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag+/-ab(?) phenocrysts. moderate ep-chl alteration has halos to fracts and ep+/-carb-py strgrs and vlets. fg pyrite (~2%) dissems and minor clots < 1cm assoc w/ carb-ep veining. trace (<0.1%) cp as

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
40	100	22											
	99	3.67											
	99.33	20.33											
45	100.67	19.33											
50	100	58.67											
	100	27.33											
55	100	61.33	1	0	3				2			1	
	100	43.33											
60	99.67	35.67											
65	99.33	66.67											
	100	71.33											
70	100	58.67											
	86.67	71.67	2	0.01	3				3		2	1	
75	100	85.33											

Structure Type

DYKE

DYKE

CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508831	36	38	0.009	0.21	179
3508832	38	40	0.0025	0.13	134
3508833	40	42	0.0025	0.19	141
3508834	42	44	0.005	0.17	164
3508835	44	46	0.0025	0.12	110
3508836	46	48	0.0025	0.13	156
3508837	48	50	0.0025	0.13	115
3508838	50	52	0.0025	0.12	107
3508839	52	54	0.0025	0.15	138
3508841	54	56	0.0025	0.07	93.7
3508842	56	58	0.0025	0.15	133
3508843	58	60	0.0025	0.1	77.6
3508844	60	62	0.0025	0.12	94.1
3508845	62	64	0.0025	0.13	130
3508846	64	66	0.0025	0.16	146
3508847	66	68	0.0025	0.14	109
3508848	68	70	0.0025	0.12	120
3508849	70	71.17	0.006	0.21	224
3508851	71.17	73	0.0025	0.15	133
3508852	73	75	0.008	0.16	91.4
3508853	75	76.35	0.0025	0.16	121

DH Survey

Depth (m)	Azimuth	Dip	Tool
45.72	116.79	-54.74	Reflex EZ-Gyro
60.96	116.88	-54.63	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
DIOR	71.17 to 77.73m: DIOR - DIOR-1. green & grey-white. med-grained equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag+/-ab(?) phenocrysts. moderate ep-chl alteration has halos to fracts and ep+/-carb-py strgrs and vlets. fg pyrite (~2%) dissems and minor clots < 1cm assoc w/ carb-ep veining. trace (<0.1%) cp as specks assoc w/ epidote
DIOR	77.73 to 97.36m: DIOR - DIOR-1(?). grey-green. med-grained hbl-plag salt-pepper diorite. ~50/50 anhedral to subhedral 2-4mm hbl-plag phenocrysts. locallized < 20cm intervals that are coarse-grained porphyritic (diorites???? hbl phenos and possibly augites in fine-grained grey groundmass). contact between porphyritic segments and equigranular diorites are very gradational -- unsure if these are dykes or localized coarsened grains (no obvious alteration changes between units). moderately magnetic throughout. patchy weak-moderate epidote (mag destructive) as halos to fracts and ep-carb veins. fine-med grained pyrite disseminations and scattered semi-massive to massive pyrite veins assoc w/ peripheral ep-veining and late carb-chl veining. trace (<0.1%) cpy as ultrafine specks assoc w/ epidote alteration
DIOR	97.36 to 98.65m: DIOR - med-dark grey green. DRPD? med-coarse grained plag-phyric intrusive. 20-25% 2-5mm anhedral to subhedral plagioclase phenos and aggregates in dark green aphanitic groundmass. porphyrytic to locally glomerophyric. select phenos replaced by epidote and fe-carb. epidote fract coating and halos to fracts. <1% pyrite as dissems and grain aggr. contacts are broken -- hard to measure
ANDS	98.65 to 109.96m: ANDS - green. massive very fine-grained andesitic lithic tuff (or aphanitic andesite dyke?). epidote alteration as irregular to globular patches and as fracture halos. generally weak (1-2%) py disseminations w/ localized strong mineralization (5-7%) @ 100-101m as med-grained pyrite clots and dissems assoc w/ carb-chl-hem veining.
DIOR	109.96 to 116.28m: DIOR - med-dark grey green. DRPD? med-coarse grained plag-phyric intrusive. 20-25% 2-5mm anhedral to subhedral plagioclase phenos and aggregates in dark-green aphanitic groundmass. porphyrytic to very locally glomerophyric. most phenocrysts are replaced by epidote

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	100	85.33	2	0.01	3				3		2	1	
	99	66.33											
	100	71.33											
	100	92											
	100	97.33	3	0.01	3				3		2	1	
	100	78.33											
	100	70.33											
	99.33	47.67	0.5	0	3				3		2	2	
	99	10.67	1 / 6	0 / 0									
	100	63.67			2				3		2	2	
	100	78	1	0									
	100	65											
	91.33	20.67	1.5	0	3				3		2	3	

Structure Type

Depth	Structure Type
	VN
	CN
	FL

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508853	75	76.35	0.0025	0.16	121
3508854	76.35	77.73	0.0025	0.21	169
3508856	77.73	80	0.016	0.36	218
3508857	80	82	0.016	0.88	267
3508858	82	84	0.0025	0.12	101
3508859	84	86	0.006	0.32	233
3508861	86	88	0.013	0.32	351
3508862	88	90	0.012	0.34	352
3508863	90	92	0.0025	0.19	137
3508864	92	94	0.008	0.23	238
3508865	94	96	0.008	0.34	380
3508866	96	97.36	0.0025	0.24	203
3508867	97.36	98.65	0.0025	0.13	135
3508868	98.65	100	0.0025	0.12	124
3508869	100	102	0.0025	0.33	401
3508871	102	104	0.0025	0.16	128
3508872	104	106	0.0025	0.27	219
3508873	106	108	0.0025	0.28	259
3508874	108	109.96	0.007	0.16	112
3508875	109.96	112	0.006	0.14	145
3508876	112	114	0.014	0.13	141

DH Survey

Depth (m)	Azimuth	Dip	Tool
76.2	116.22	-54.74	Reflex EZ-Gyro
91.44	116.24	-54.77	Reflex EZ-Gyro
106.68	117.91	-54.87	Reflex EZ-Gyro

Legend

Lith Code
- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type
- VN — Vein
- CN — Contact
- FL — Fault

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
115	DIOR	109.96 to 116.28m: DIOR - med-dark grey green. DRPD? med-coarse grained plag-phyric intrusive. 20-25% 2-5mm anhedral to subhedral plagioclase phenos and aggregates in dark-green aphanitic groundmass. porphyrytic to very locally glomerophyric. most phenocrysts are replaced by epidote (epidote after plag pseudomorphs) epidote fract coating and halos to fracts. ~1.5% pyrite as dissems and grain aggr. contacts are broken -- hard to measure. upper and lower contacts 30-35degrees tca. localized intermittent weak faulting (expressed as localized clay-altered broken core) @ 111-115m	91.33	20.67	1.5	0	3				3		2	3	
			96.67	53											
120	DIOR	116.28 to 122.87m: DIOR - DIOR-1(?). texture locally obscured. observable texture: equigranular salt-pepper hbl-palg diorite. ~50/50 2-3mm anhedral to subhedral hbl and plag phenos. weak ep alteration as halos to fracts and weak p-strgrs/vlets. rare mod-str chlorite halos to grey late calcite veins. patchy moderate silica overprint obscures texture locally. fg pyrite dissems and clots < 3mm assoc w/ epidote alteration. lower contact is very gradational. localized dykelets of leucocratic hbl-plag diorite.	100	81.67	1	0	3				2		2	2	3
			99.33	77.33											
125	ANDS	122.87 to 125.11m: ANDS - green. massive very fine-grained andesitic lithic tuff (or aphanitic andesite dyke?). patchy epidote alteration and as fracture halos. generally weak (0.5-1%) py disseminations. mod mag throughout. LC 30degrees tca	100	56.33	0.5	0	3				3		2	2	
	DIOR	125.11 to 136.6m: DIOR - DIOR-1. green & grey-white. med-grained equigranular salt-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl and plag phenos. weak ep alteration halos to fracts and <1% ep+/-carb strgrs/vlets. local low-angle (tca) chl-carb-clay altered fault @ 129.3-130.40m. vfg pyrite weakly dissem in groundmass and as clots assoc w/ epidote alt.	99	49.67											
			100	26	1	0	3				2		2	1	
			100	88.33											
135			100	90.33											
140	DIOR	136.6 to 167.45m: DIOR - AUGITE PORPH? grey-green. Hbl (+/-px?) phyric diorite porphyry -- texture ranges from med-grained to slightly coarser grained. 20-40% subhedral to euhedral stubby hbl (+ px?) phenocrysts 2-6mm in grey-green to	100	70.33											
			100	71.33	3	0	3				4		3	2	
145			100	95.67											
			100	89.67											
150			100	94											

Structure Type	SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	DH Survey Depth (m)	Azimuth	Dip	Tool
FL	3508876	112	114	0.014	0.13	141				
	3508877	114	116.28	0.085	0.41	163				
CN	3508878	116.28	118	0.007	0.14	162				
	3508879	118	120	0.006	0.11	154				
DYKE	3508881	120	121.43	0.014	0.32	299				
	3508882	121.43	122.87	0.0025	0.08	109	121.92	117.38	-54.85	Reflex EZ-Gyro
CN	3508883	122.87	125.11	0.007	0.19	181				
CN	3508884	125.11	127	0.027	0.15	103				
	3508885	127	129	0.094	0.59	110				
FL	3508886	129	131	0.018	0.25	258				
	3508887	131	133	0.015	0.3	305				
	3508888	133	135	0.013	0.25	236				
	3508889	135	136.6	0.016	0.3	250				
	3508891	136.6	138	0.019	0.49	482	137.16	118.5	-54.65	Reflex EZ-Gyro
	3508892	138	140	0.006	0.31	258				
	3508893	140	141.9	0.034	0.59	389				
VN	3508894	141.9	144	0.022	0.32	178				
	3508896	144	146	0.0025	0.24	194				
VN	3508897	146	148	0.025	0.76	745				
	3508898	148	150	0.013	0.38	299				
	3508899	150	152	0.0025	0.2	176				

Legend

Lith Code
- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type
- FL — Fault
- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

MOUNTMILLIGAN

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Lithology

Lith Code	Description
DIOR	136.6 to 167.45m: DIOR - AUGITE PORPH? grey-green. Hbl (+/-px?) phyric diorite porphyry -- texture ranges from med-grained to slightly coarser grained. 20-40% subhedral to euhedral stubby hbl (+ px?) phenocrysts 2-6mm in grey-green to locally white fine-grained groundmass. moderate to mag-destructive strong patchy epidote alteration (halos to fracts and ep-carb strgrs/vlets). mod-strong chlorite halos to late carb-chl+/-pyrite vlets/veins. mostly moderately magnetic throughout. magnetism drops @ ~162.5-167.5m due to localized mod silica o'print. fg pyrite disseminations and vein fill with P-type veining. med-grained pyrite as vein fill assoc w/ later-stage carb-chl veins. localized trace E(?) veins -- dull grey qz vns upto 1.5cm thick. trace (<0.1%) cp as specks assoc w/ ep alteration. localized leucocratic diorite dykelets/dykes < 50cm.
ANDS	167.45 to 170.36m: ANDS - dark-green. andesite dyke(?). upper contact ~15degrees tca. lower contact ~20degrees tca. aphanitic to locally plag-phyric (5-10% 1-2mm subh plag laths in aphanitic groundmass). moderate pyrite mineralization as crudely banded py-carb-chl veins and weak disseminations. upper contact marked by smsv py-chl-carb vein. patchy epidote alteration as halos to fracts. mod-str chlorite alt halos to chl-carb+/-py veining.
DIOR	170.36 to 211.56m: DIOR - AUGITE PORPH? grey-green. Hbl

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
136.6–155	100	94	3	0	3				4		3	2	
155–160	100	79.33											
160–165	100	86.33											
165–170	99.67	68.67											
170–175	100	49							4		2	2	3
175–180	100	57											
180–185	100	85	5	0					3		3	1	
185–190	100	80.33	1.5	0	3				4		2	1	
190–195	99.33	73.33											
195–200	100	8.33	8	0					2		4	2	
200–205	99.33	51											
205–210	100	94	1	0.01	3				3		2	1	
210–211.56	100	92.33											

Structure Type

DYKE, CN, VN, CN, VN, DYKE

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508899	150	152	0.0025	0.2	176
3508901	152	154	0.0025	0.16	157
3508902	154	156	0.0025	0.16	119
3508903	156	158	0.011	0.32	268
3508904	158	160	0.016	0.46	407
3508905	160	161.5	0.0025	0.16	140
3508906	161.5	163	0.0025	0.2	140
3508907	163	165	0.01	0.29	295
3508908	165	167.45	0.0025	0.27	164
3508909	167.45	169	1.28	1.03	376
3508911	169	170.36	0.0025	0.09	83.2
3508912	170.36	172.5	0.015	0.25	233
3508913	172.5	174.5	0.0025	0.19	148
3508914	174.5	176.7	0.007	0.2	192
3508915	176.7	178.94	0.072	3.98	209
3508916	178.94	181	0.0025	0.22	207
3508917	181	183	0.0025	0.19	163
3508918	183	185	0.0025	0.32	156
3508919	185	187	0.0025	0.14	124
3508921	187	189	0.0025	0.2	172

DH Survey

Depth (m)	Azimuth	Dip	Tool
152.4	117.84	-54.59	Reflex EZ-Gyro
167.64	119.32	-54.78	Reflex EZ-Gyro
182.88	119.33	-54.9	Reflex EZ-Gyro

Legend

Lith Code
- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type
- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact
- VN — Vein

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
DIOR	170.36 to 211.56m: DIOR - AUGITE PORPH? grey-green. Hbl (& px?) phyric diorite porphyry -- texture ranges from med-grained to slightly coarser grained. 20-40% subhedral to euhedral stubby hbl(+/-px?) phenocrysts 2-5mm in grey-green fine-grained groundmass. moderate to strong patchy epidote alteration (halos to fracts and ep-carb strgrs/vlets). localized strong chlorite halo to low-angle tca late carb-chl-pyrite+/-Mo vein @ 176.7-178.94. mostly moderately magnetic throughout. weak mag where epidote-chlorite alteration is more intense. fg pyrite disseminations and vein fill with P-type veining. med-grained pyrite as vein fill assoc w/ later-stage carb-chl veins. localized trace E(?) veins -- pinkish grey qz vns upto 1.5cm thick. trace (<0.1%) cp as specks assoc w/ ep alteration. localized leucocratic equigranular hbl-plag diorite & glomerophyric plag diorite dykelets/dykes < 50cm.
ANDS	211.56 to 214.4m: ANDS - dark-green. aphanitic andesite dyke(?). upper contact ~60degrees tca w/ notable chill margin. wk-mod epidote alteraiton as halos to fracts and ep-chl+/-py stringers. fg pyrite as disseminated grains and vlet/stringer fill assoc w/ p-veining.
MZPP	214.4 to 219.11m: MZPP - grey-green. plag-phyric monzonite(?) porphyry. 10-15% 1-3mm anh-subh fsp phenos in aphanitic patchy silicified groundmass. OPRO alt as epidote stringers/vlets and assoc halos (to strgrs/vlets and fracts). ~1.5% fg pyrite dissems clots < 2mm assoc w/ carb-chl fract fill (L-type strgrs). trace cpy as < 3mm grain aggregate within carb-chl stringer @ 218.88
DIOR	219.11 to 228.31m: DIOR - AUGITE PORPH? green. Hbl +/- px phyric diorite porphyry -- texture ranges from med-grained to slightly coarser grained. 45-50% subhedral to euhedral stubby hornblende +/- px(?) phenocrysts 2-5mm in grey-green fine-grained groundmass. weak to moderate patchy epidote-chlorite alteration (halos to fracts and ep-carb strgrs/vlets). moderately magnetic throughout. <1% fg pyrite as weak disseminations and discontinuous vein fill with P-type veining.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
190	100	92.33											
	100	82.33											
	100	86											
195	100	64.33											
	99	63	1	0.01	3				3		2	1	
200	100	57.33											
	100	100											
205	100	89.33											
	100	56.33											
210	100	68.33	2	0					3		2	1	
	99.33	46.67	1.5	0.01	2				3		2	2	3
215	100.67	24.67											
220	100	80.33	0.5	0	3				2		2	2	
225	100	90.33											

Structure Type: DYKE; CN; FRZ

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508921	187	189	0.0025	0.2	172
3508922	189	191	0.009	0.26	165
3508923	191	193	0.0025	0.14	132
3508924	193	195	0.0025	0.15	116
3508925	195	197	0.008	0.17	114
3508926	197	199	0.0025	0.21	148
3508927	199	201	0.0025	0.41	96.1
3508928	201	203	0.0025	0.09	101
3508929	203	205	0.01	0.18	224
3508931	205	207	0.011	0.1	130
3508932	207	209	0.0025	0.09	131
3508933	209	210.28	0.0025	0.09	155
3508934	210.28	211.56	0.0025	0.06	104
3508936	211.56	213	0.0025	0.03	108
3508937	213	214.4	0.0025	0.09	139
3508938	214.4	216.75	0.0025	0.01	75.6
3508939	216.75	219.11	0.008	0.41	54.3
3508941	219.11	221	0.01	0.2	250
3508942	221	223	0.0025	0.16	186
3508943	223	225	0.0025	0.09	151
3508944	225	227	0.0025	0.1	135

DH Survey

Depth (m)	Azimuth	Dip	Tool
198.12	117.13	-54.99	Reflex EZ-Gyro
213.36	117.74	-55.12	Reflex EZ-Gyro

Legend

Lith Code
- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type
- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact
- FRZ — Fracture Zone

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
DIOR	219.11 to 228.31m: DIOR - AUGITE PORPH? green. Hbl +/- px phyric diorite porphyry -- texture ranges from med-grained to slightly coarser grained. 45-50% subhedral to euhedral stubby hornblende +/- px(?) phenocrysts 2-5mm in grey-green fine-grained groundmass. weak to moderate patchy epidote-chlorite alteration (halos to fracts and ep-carb strgrs/vlets). moderately magnetic throughout. <1% fg pyrite as weak disseminations and discontinuous vein fill with P-type veining.
MZPP	228.31 to 230.9m: MZPP - grey-green. plag-phyric monzonite(?) porphyry. 10-20% 1-3mm anh-subh white-grey fsp phenos in aphanitic grey-green groundmass. OPRO alt as epidote stringers/vlets and assoc halos (to strgrs/vlets and fracts). ~1% fg pyrite dissems and clots < 5mm assoc w/ p-type strgrs/vlets. weak magnetic
DIOR	230.9 to 245.96m: DIOR - AUGITE PORPH? green. hbl+/-px-phyric diorite porphyry -- texture ranges from med-grained to slightly coarser grained. 45-50% subhedral to euhedral stubby hbl+/-px phenocrysts 2-5mm in grey-green fine-grained groundmass. moderate patchy epidote-chlorite alteration as halos to fracts and ep-carb strgrs/vlets. moderate (locally weak) magnetism throughout. ~1% fg pyrite as weak disseminations and semi-massive vein fill with epidote vlets. localized crudely banded carb-chl+/-ep veining (late veins o'printing peripheral veining)
ANDS	245.96 to 248.2m: ANDS - dark green. fine-grained to aphanitic andesitic andesite dyke(?). moderate epidote-chlorite alteration as clotty irregular to globular patches (+/- red-brown intergrown with fe-carb) and as fracture halos. generally weak (1-2%) py disseminations. weak to non-magnetic
DIOR	

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
	100	90.33	0.5	0	3				2		2	2	
	100	68	1.5	0					3		2	2	
	100	72.67											
	100	96											
	100	84	1	0	3				3		2	1	
	100	65.67											
	100	78											
	100	76.33	0.5	0					3		3	1	
	100	50.67											
	99.33	52											
	100	42	1.5	0	3				3		2	2	
	100	70											
	100	72.33											

Structure Type

DYKE
CN
CN
DYKE

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508944	225	227	0.0025	0.1	135
3508945	227	228.31	0.0025	0.07	127
3508946	228.31	229.6	0.03	0.01	99.4
3508947	229.6	230.9	0.0025	0.03	117
3508948	230.9	233	0.0025	0.12	157
3508949	233	235	0.0025	0.09	131
3508951	235	237	0.0025	0.15	198
3508952	237	239	0.007	0.09	136
3508953	239	241	0.01	0.2	261
3508954	241	243	0.0025	0.1	148
3508955	243	244.5	0.006	0.12	191
3508956	244.5	245.96	0.0025	0.1	164
3508957	245.96	248.2	0.0025	0.05	122
3508958	248.2	250	0.0025	0.32	419
3508959	250	252	0.012	0.42	509
3508961	252	254	0.0025	0.1	128
3508962	254	256	0.0025	0.19	196
3508963	256	258	0.0025	0.14	155
3508964	258	260	0.0025	0.15	164
3508965	260	262	0.011	0.37	341
3508966	262	264	0.0025	0.1	108

DH Survey

Depth (m)	Azimuth	Dip	Tool
228.6	118.62	-55.19	Reflex EZ-Gyro
243.84	118.25	-55.15	Reflex EZ-Gyro
259.08	118.92	-55.17	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
DIOR	248.2 to 294.5m: DIOR - AUGITE PORPH? grey-green. hbl+/-px phyric diorite porphyry -- texture is gradationally variable and ranges from fine-grained to med-grained porphyrytic to equigranular (porphyrytic texture is dominant). This diorite unit gradationally transitions from finer-grained (~1mm) to med-grained (2-5mm) porphyry with 40-50% subhedral to euhedral stubby hornblende+/-px phenocrysts in grey-green fine-grained groundmass. intermittent dykes/dykelets of leucocratic med-grained equigranular hbl diorite <50cm are noted. moderate to patchy epidote-chlorite alteration of groundmass and as halos to fracts and ep-carb strgrs/vlets. locallized banded ep-chl alteration spatially associated with finer-grained diorite texture. moderately magnetic throughout. fg pyrite disseminations and vein fill with P-type veining.
MZPP	294.5 to 296.74m: MZPP - light purplish-grey-green. texture obscured by strong pervasive silica alteration. vfg pyrite disseminated in groundmass. moderatey fractured - cemented by chl-carb.
ANDS	

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
265	100	72.33											
	100	47.67											
	100	80.33											
270	100	92											
	100	92.67											
275	100	62											
	100	74.67	1.5	0	3				3		2	2	
280	100	90.67											
	100	84											
285	100	93.33											
	99.33	59.33											
290	100	57	1.5	0								2	5
	100	62.33	1.5	0	2				3		2	2	
295	100	58.33											
300													

Structure Type

DYKE
DYKE
CN
CN

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508966	262	264	0.0025	0.1	108
3508967	264	266	0.013	0.28	145
3508968	266	268	0.008	0.17	147
3508969	268	270	0.0025	0.25	184
3508971	270	272	0.0025	0.2	142
3508972	272	274	0.007	0.22	151
3508973	274	276	0.006	0.2	95.6
3508974	276	278	0.007	0.3	322
3508976	278	280.1	0.012	0.43	348
3508977	280.1	282	0.006	0.57	542
3508978	282	284	0.007	0.33	323
3508979	284	286	0.006	0.42	363
3508981	286	288	0.006	0.22	168
3508982	288	290	0.0025	0.25	215
3508983	290	292.25	0.014	0.4	273
3508984	292.25	294.5	0.0025	0.17	79.4
3508985	294.5	296.74	0.011	0.02	24.4
3508986	296.74	299	0.0025	0.29	261
3508987	299	301	0.007	0.36	300
3508988	301	303	0.006	0.37	225

DH Survey

Depth (m)	Azimuth	Dip	Tool
274.32	117.74	-55.27	Reflex EZ-Gyro
289.56	118.03	-55.33	Reflex EZ-Gyro

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Lithology

Lith Code	Description
ANDS	296.74 to 311.63m: ANDS - green. massive fine-grained homogenous andesite(?). crystalline. average <1 to 1mm grains (hbl most notable). localized dykes <50cm of equigranular salt-pepper hbl-plag diorite. mod epidote halos to fracts and p-type strgrs/vlets. fg pyrite as dissems and clots assoc w/ late carb vlets/strgrs.
DIOR	311.63 to 331.74m: DIOR - DIOR-1. green & grey-white. med-grained equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts. moderate ep-chl alteration as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). trace to weak patchy albite(?) alt of groundmass. variable moderate to weak magnetism (mag weakens downhole). localized patchy silica overprint as halos to late-stage carb-chl-qz vlets/veins. fg pyrite (1-2%) dissems and minor clots < 1cm assoc w/ ep-carb veining. trace (<0.1%) cp as specks assoc w/ epidote
ANDS	331.74 to 333.72m: ANDS - dark-green. aphanitic andesite dyke(?). patchy wk-mod hlorite-epidote alteration and epidote as halos to fracts and weak ep-chl+/-py stringers. wk hematite fract coating. fg pyrite as disseminated grains and clots < 1cm.
DIOR	333.72 to 339.74m: DIOR - DIOR-1. green. med-grained equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts. moderate ep-chl alteration as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (~0.5%) dissems and minor clots < 5mm assoc w/ ep-carb veining. andesite dyke @ 338.5-338.9m. local crudely banded chl-carb-fecarb vein @ ~339.3m approx 3cm thick (low-angle)

Geotechnical / Mineralisation / Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz
305	100	58.33	1.5	0	2				3		2	2	
	100	90											
	100	77.33											
310	100	74.33											
315	99.33	65.67	2	0.01	2			2	3		3		2
	100	69.67											
320	100	86.67											
	100	92.33											
325	100	76											
	100	66.67											
330	99	45.33	1	0					2		3		
335	100	50.33	0.5	0	3				3		3	1	
	100	69.67											

Structure Type

DYKE, DYKE, CN, CN, CN, DYKE

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3508988	301	303	0.006	0.37	225
3508989	303	305	0.012	0.32	253
3508991	305	307	0.009	0.29	252
3508992	307	309.3	0.006	0.28	270
3508993	309.3	311.63	0.0025	0.3	340
3508994	311.63	314	0.007	0.4	355
3508995	314	316	0.0025	0.13	134
3508996	316	318	0.0025	0.3	270
3508997	318	320	0.0025	0.18	166
3508998	320	322	0.005	0.1	56.7
3508999	322	324	0.011	0.35	292
3509001	324	326	0.005	0.21	146
3509002	326	328	0.038	0.29	120
3509003	328	330	0.007	0.29	154
3509004	330	331.74	0.0025	0.19	144
3509005	331.74	333.72	0.006	0.2	113
3509006	333.72	336	0.143	0.2	146
3509007	336	338	0.0025	0.1	76.9
3509008	338	339.74	0.0025	0.2	175

DH Survey

Depth (m)	Azimuth	Dip	Tool
304.8	119.03	-55.37	Reflex EZ-Gyro
320.04	119.16	-55.45	Reflex EZ-Gyro
335.28	119.26	-55.43	Reflex EZ-Gyro

Legend

Lith Code

- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated
- DIOR — Diorite

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)
- CN — Contact

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

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Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
	DIOR	333.72 to 339.74m: DIOR - DIOR-1. green. med-grained equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts. moderate ep-chl alteration as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (~0.5%) dissems and minor clots < 5mm assoc w/ ep-carb veining. andesite dyke @ 338.5-338.9m. local crudely banded chl-carb-fecarb vein @ ~339.3m approx 3cm thick (low-angle)	100	69.67	0.5	0	3				3		3	1		VN
340			100	87												
	DIOR	339.74 to 348.23m: DIOR - AUGITE PORPH? green-grey. hbl-px phyric diorite porphyry -- texture is gradationally variable and ranges from fine-grained to med-grained porphyrytic. Porphyry unit is dominantly med-grained (2-5mm) porphyritic with 40-50% subhedral to euhedral stubby hbl-px(?) phenocrysts in grey-green fine-grained groundmass. locally transitions to homogenous fine-grained (average <1 to 1mm). moderate patchy epidote-chlorite alteration of groundmass and as halos to fracts and ep-carb strgrs/vlets. mod-strongly magnetic throughout. fg pyrite disseminations and vein fill with P-type veining.	100	76.33	2	0.01	3				3		3	2		
345			100	75												
	ANDS	348.23 to 349.73m: ANDS - dark-green. aphanitic andesite dyke(?). patchymod chlorite-epidote alteration and epidote as halos to fracts and weak ep-carb-chl+/-py stringers./vlets. fg pyrite as disseminated grains and discont strgrs assoc w/ ep-carb	100	83.33	5	0	3				3		3	3		CN
350																CN
	DIOR	349.73 to 382.34m: DIOR - DIOR-1. green-grey. med-grained (to locally fine-grained) equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts (~1-2mm grains within finer-grianed intervals). moderate patchy ep-chl alteration and as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (0.5-1%) dissems and minor clots < 5mm assoc w/ ep-carb veining. trace specks (<0.1%) cp assoc w/ ep alteration. local leucocratic hbl-plag diorite dykes <1m. patchy sil-ser overprint as localized patches -- halos to select late carb-qz+/-chl veining. trace hematite along fracts. lower contact marked by ~60cm aphanitic andesite dyke.	101	82.67	1	0.01	3				3		3	2		
355			99.33	87												
			100	57.33												
360			100	72.33												
365			100	60.33												DYKE
			100	60.33												
370			100	64												
			100	90												
375			99.33	74.33												

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3509008	338	339.74	0.0025	0.2	175				
3509009	339.74	342	0.013	0.64	744				
3509011	342	344	0.009	0.46	498				
3509012	344	346	0.008	0.76	758				
3509013	346	348.23	0.007	0.32	304				
3509014	348.23	349.73	0.005	0.43	395				
3509016	349.73	352	0.0025	0.34	301	350.52	119.79	-55.42	Reflex EZ-Gyro
3509017	352	354	0.0025	0.12	101				
3509018	354	356	0.009	0.34	390				
3509019	356	358	0.02	0.54	634				
3509021	358	360	0.018	0.91	499				
3509022	360	362	0.009	0.81	527				
3509023	362	364	0.014	0.96	542				
3509024	364	366	0.01	0.61	471	365.76	119.21	-55.47	Reflex EZ-Gyro
3509025	366	368	0.007	0.23	243				
3509026	368	370	0.005	0.19	248				
3509027	370	372	0.013	0.19	246				
3509028	372	374	0.017	0.42	606				
3509029	374	376	0.019	0.35	574				
3509031	376	378	0.012	0.29	477				

Legend

Lith Code

- DIOR — Diorite
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type

- VN — Vein
- CN — Contact
- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

MOUNTMILLIGAN

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Lithology			Geotechnical		Mineralisation		Alteration Mineral Intensity									
Depth	Lith Code	Description	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
			0 100	0 100	0 10	0 5										
380	DIOR	349.73 to 382.34m: DIOR - DIOR-1. green-grey. med-grained (to locally fine-grained) equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts (~1-2mm grains within finer-grianed intervals). moderate patchy ep-chl alteration and as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (0.5-1%) dissems and minor clots < 5mm assoc w/ ep-carb veining. trace specks (<0.1%) cp assoc w/ ep alteration. local leucocratic hbl-plag diorite dykes <1m. patchy sil-ser overprint as localized patches -- halos to select late carb-qz+/-chl veining. trace hematite along fracts. lower contact marked by ~60cm aphanitic andesite dyke.	99.33	74.33												
			100	69.33	1	0.01	3				3		3		2	
			100	60.33												DYKE
385	MZPP	382.34 to 384.68m: MZPP - med-dark green. med-grained fsp-phyric monzonite(?). texture locally obscured by alteration. 25-30% 1-2mm anhedral fsp phenos in silicified groundmass. mod-strong chl halos to fracts and chl-py strgrs. patchy ep alteration of groundmass. 3-5% fg pyrite dissems and strgrs assoc w/ chl. lower contact gradational -- rough location .			4	0					2		3	2	4	
			100	10												
			100	82.67												
390			100	85.67												DYKE
			100	53.67												
395			99.33	57												
400	DIOR	384.68 to 421.75m: DIOR - DIOR-1. green-grey. med-grained (to locally fine-grained) equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral (allotriomorphic) hbl-plag phenocrysts (~1-2mm grains within finer-grianed intervals). moderate patchy ep-chl alteration and as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (0.5-1%) dissems and minor clots < 3mm assoc w/ ep+/-carb veining. trace specks (<0.1%) cp assoc w/ epidote alteration. trace hematite along fracts. ~1m aphanitic andesite dyke @ 406.74m.	100	87.33	1.5	0.01	3				3		3	1		
405			100	89.67												
			100	78.67												
410			100	93.33												
			100	80.33												
			100	64.33												

Assays						DH Survey			
SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)	Depth (m)	Azimuth	Dip	Tool
3509031	376	378	0.012	0.29	477				
3509032	378	380	0.008	0.24	202				
3509033	380	382.34	0.0025	0.17	101	381	119.73	-55.48	Reflex EZ-Gyro
3509034	382.34	384.68	0.014	0.21	159				
3509035	384.68	386	0.011	0.2	101				
3509036	386	388	0.012	0.19	188				
3509037	388	390	0.016	0.15	139				
3509038	390	392	0.007	0.08	116				
3509039	392	394	0.011	0.09	103				
3509041	394	396	0.006	0.17	202				
3509042	396	398	0.007	0.12	110	396.24	118.5	-55.54	Reflex EZ-Gyro
3509043	398	400	0.0025	0.17	177				
3509044	400	402	0.006	0.22	188				
3509045	402	404	0.006	0.2	261				
3509046	404	406	0.0025	0.12	145				
3509047	406	408	0.005	0.23	247				
3509048	408	410	0.009	0.42	552				
3509049	410	412	0.017	0.27	371	411.48	120.55	-55.53	Reflex EZ-Gyro
3509051	412	414	0.0025	0.3	370				
3509052	414	416	0.0025	0.2	246				

Legend

Lith Code

- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry

Structure Type

- DYKE — Dykes (too small for lithology <0.5m wide)

Hole ID	Prospect	Depth (m)	Start Date	End Date	Easting	Northing	Elevation	Azimuth	Dip	Core Size	Geologist	Core Storage
MAX20-033	Max	450	11-Oct-2020	14-Oct-2020	431749.223	6087200	1279.236	117.41	-54.31	NQ	John Tejada	

Purpose
M5 geophysics target - disruption in Central mag anomaly. cheyenne add more detail.

MOUNTMILLIGAN

centerra GOLD

Lithology

Lith Code	Description
DIOR	384.68 to 421.75m: DIOR - DIOR-1. green-grey. med-grained (to locally fine-grained) equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral (allotriomorphic) hbl-plag phenocrysts (~1-2mm grains within finer-grianed intervals), moderate patchy ep-chl alteration and as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (0.5-1%) dissems and minor clots < 3mm assoc w/ ep+/-carb veining. trace specks (<0.1%) cp assoc w/ epidote alteration. trace hematite along fracts. ~1m aphanitic andesite dyke @ 406.74m.
MZPP	421.75 to 424.18m: MZPP - grey-pink. fine-grained porphyrytic monzonite. 15-20% ~1mm anhedral fsp phenos in pinkish grey aphanitic groundmass. phenos replaced by epidote. 2-3% as fine-grained disseminated pyrite in groundmass. moderately fractured cemented by calcite. mod brk core
DIOR	424.18 to 441.22m: DIOR - DIOR-1. green-grey. med-grained equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral (allotriomorphic) hbl-plag phenocrysts. moderate patchy ep-chl alteration and as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets) -- locally strong chlorite halos to late-stage carb-chl+/-fe-carb veinlets. moderate magnetism throughout. fg pyrite (<1%) dissems and clotty vein fill assoc w/ ep+/-carb veining.
ANDS	441.22 to 443.62m: ANDS - dark-green. aphanitic andesite dyke(?). patchy mod epidote-chlorite alteration and epidote as halos to fracts and weak P-veining (ep-carb-chl+/-py strgrs/vlets). fg pyrite as disseminated grains and clots <5mm
DIOR	443.62 to 450m: DIOR - DIOR-1. green-grey. med-grained (to locally finer-grained w/ ~1mm grains) equigranular salt-and-pepper hbl-plag diorite. ~50/50 2-4mm anhedral to subhedral hbl-plag phenocrysts. moderate patchy ep-chl alteration and as halos to fracts and weak p-veining (ep+/-carb-py strgrs and vlets). moderate magnetism throughout. fg pyrite (<1%) dissems and clotty (< 3mm) vein fill assoc w/ ep+/-carb veining. local calc-chl-fecarb veinlets <5mm. upper contact obscure.

Geotechnical, Mineralisation, Alteration Mineral Intensity

Depth	Recovery (%)	RQD (%)	Pyrite (%)	Chalcopyrite (%)	Magnetite	K-Feldspar	Biotite	Albite	Epidote	Sericite	Chlorite	Calcite	Quartz	Structure Type
415	100	64.33	1.5	0.01	3				3		3	1		
	100	72												
420	100	48.67												
	100	43	2.5	0					3			2	4	CN
425	100	83.67												
	100	97.33												
430	100	94	0.5	0	3				3		3	1		
	100	83.33												
435	100	75.67												
440	100	37	1	0					3		2	1		
445	100	59	0.5	0	3				3		3	1		
	99	42.33												

Assays

SampleID	From (m)	To (m)	Au (ppm)	Ag (ppm)	Cu (ppm)
3509052	414	416	0.0025	0.2	246
3509053	416	418	0.0025	0.21	240
3509054	418	420	0.007	0.38	461
3509056	420	421.75	0.023	0.24	81.1
3509057	421.75	424.18	0.03	0.12	43.5
3509058	424.18	426	0.033	0.28	96.9
3509059	426	428	0.007	0.16	141
3509061	428	430	0.01	0.04	48
3509062	430	432	0.015	0.14	151
3509063	432	434	0.01	0.09	124
3509064	434	436	0.01	0.16	230
3509065	436	438	0.017	0.56	551
3509066	438	440	0.013	0.22	281
3509067	440	441.22	0.007	0.5	353
3509068	441.22	443.62	0.007	0.15	127
3509069	443.62	446	0.01	0.2	234
3509071	446	448	0.01	0.09	110
3509072	448	450	0.012	0.2	207

DH Survey

Depth (m)	Azimuth	Dip	Tool
426.72	119.6	-55.53	Reflex EZ-Gyro

Legend

Lith Code
- DIOR — Diorite
- MZPP — MBX and SS Stocks: Plag monzonite porphyry
- ANDS — Andesitic Volcanic Rocks: Andesitic rocks - undifferentiated

Structure Type
- CN — Contact

Appendix D

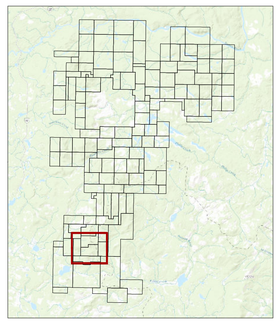
Drillhole Cross Sections

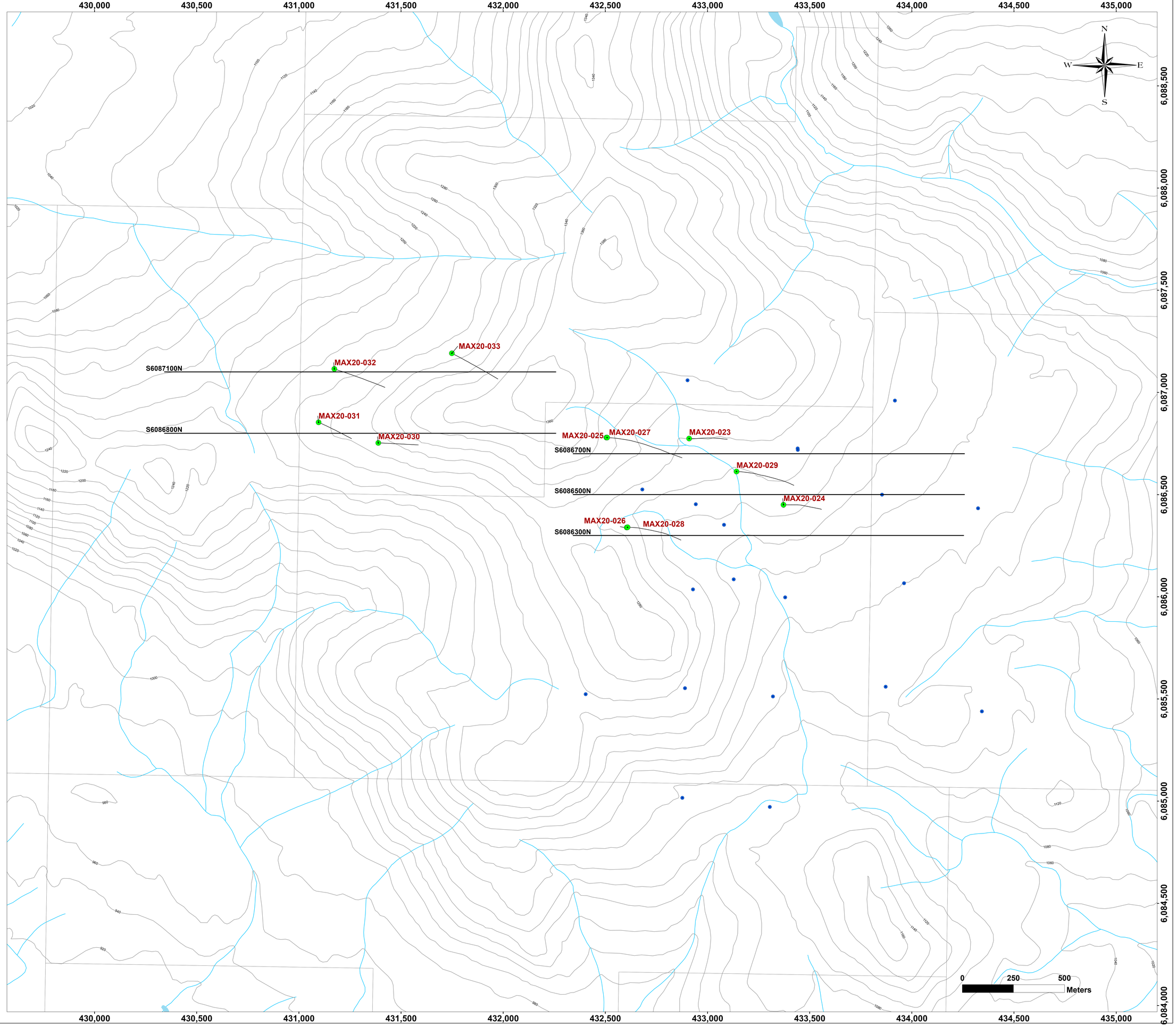
Max - K2
Field Section Lines

Quesnel Trough
British Columbia

LEGEND

- Section Lines
- 2020 Diamond Drillholes
- 2020 Traces
- 2019 RC Collars
- Mount Miligan Claims
- Max Mineral Claims
- Contours (50k)
- Streams
- Waterbody





Date: Thursday, July 8, 2021
Scale 1:6,000 (34' x 44')
Projection: NAD 1983 UTM Zone 10N
Filename:
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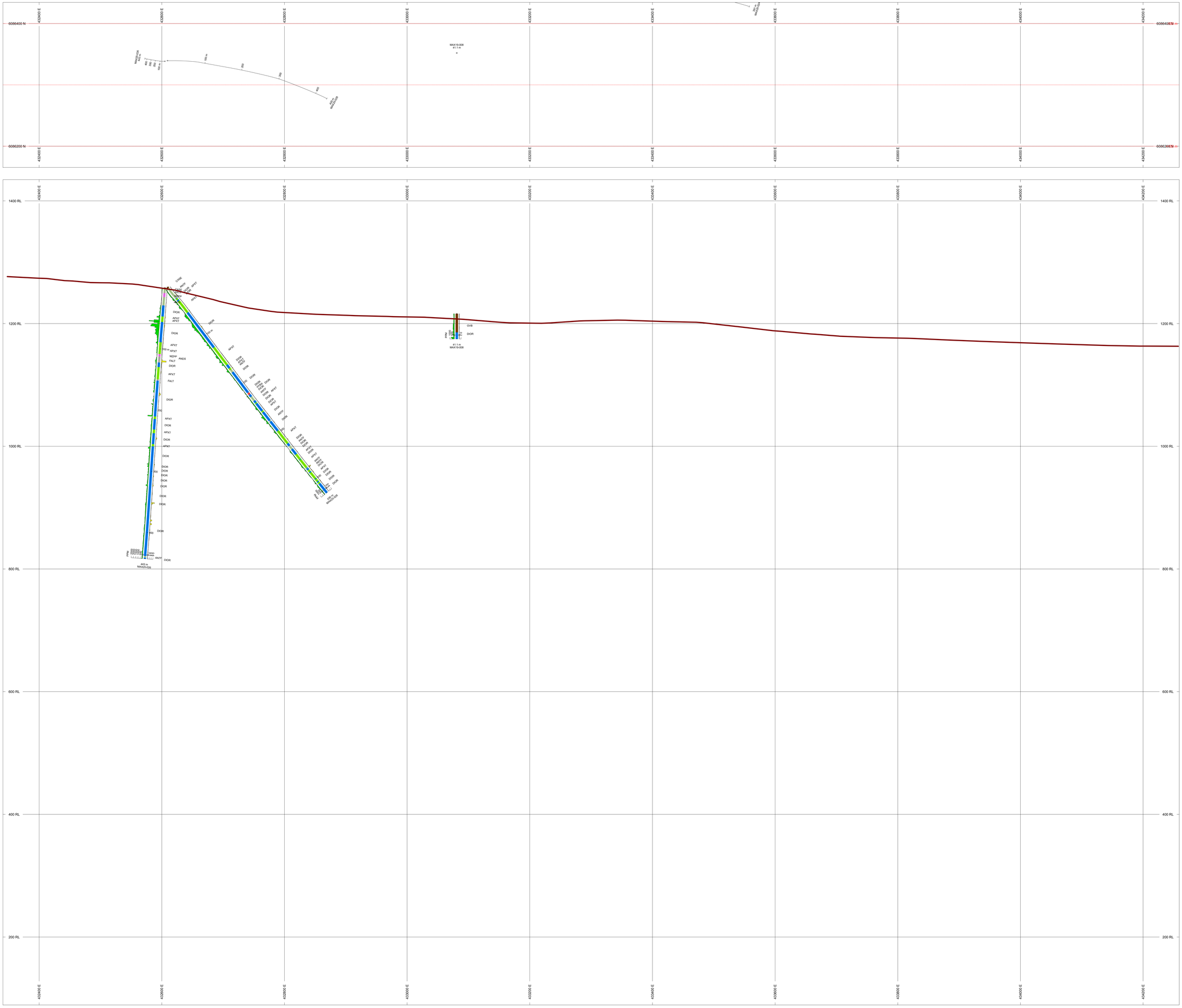


HOLES PLOTTED

TOTAL 3

MAX19-008 MAX20-026 MAX20-028

TOPOGRAPHY

MaxTopography.dtm

BAR GRAPHS	L/R	COL
Au (ppm)	R	
Cu (ppm)	L	

ROCK CODES Lith1	PAT	LABEL
		ANDS
		ANTF
		APXT
		CASE
		DIOR
		FALT
		HYBX
		MZPP
		OVB

POSTED TEXT	L/R	TEXT	ITEMS
Lith1	R	------	All

SECTION SPECS:

REF. PT. E, N	433300 m	6086300 m
EXTENTS	1918 m	1345 m
SECTION TOP, BOT	1435 m	89.35 m
TOLERANCE +/-	100 m	

SCALE 1 : 2000

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 10N

AZIMUTH = 90°

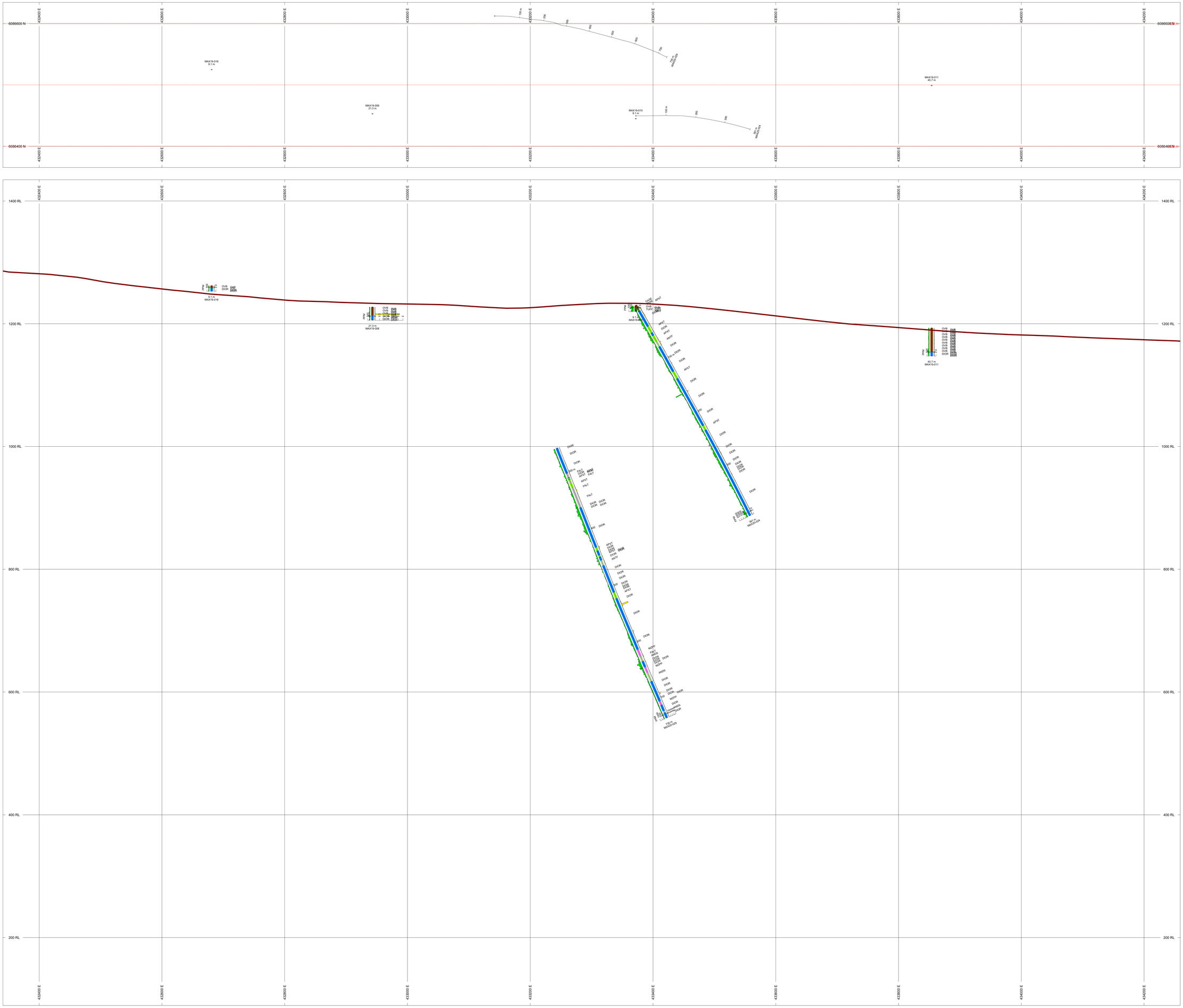
N W E S

Centerra Gold Inc

Max - K2

6086300N SECTION

2021-06-15



HOLES PLOTTED

TOTAL 6

MAX19-006 MAX19-010 MAX19-011 MAX19-018
MAX20-024 MAX20-029

TOPOGRAPHY

MaxTopography.dtm

BAR GRAPHS	L/R	COL
Au (ppm)	R	
Cu (ppm)	L	

ROCK CODES	PAT	LABEL
Lith1		ANDS
		ANTF
		APXT
		CASE
		DIOR
		FALT
		MZPP
		OVB
		TUFF
		VOL

POSTED TEXT	L/R	TEXT	ITEMS
Lith1	R	-------	All

SECTION SPECS:

REF. PT. E, N	433300 m	6086500 m
EXTENTS	1918 m	1345 m
SECTION TOP, BOT	1435 m	89.35 m
TOLERANCE +/-	100 m	

SCALE 1 : 2000

(m)

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NAD83 / UTM zone 10N

AZIMUTH = 90°

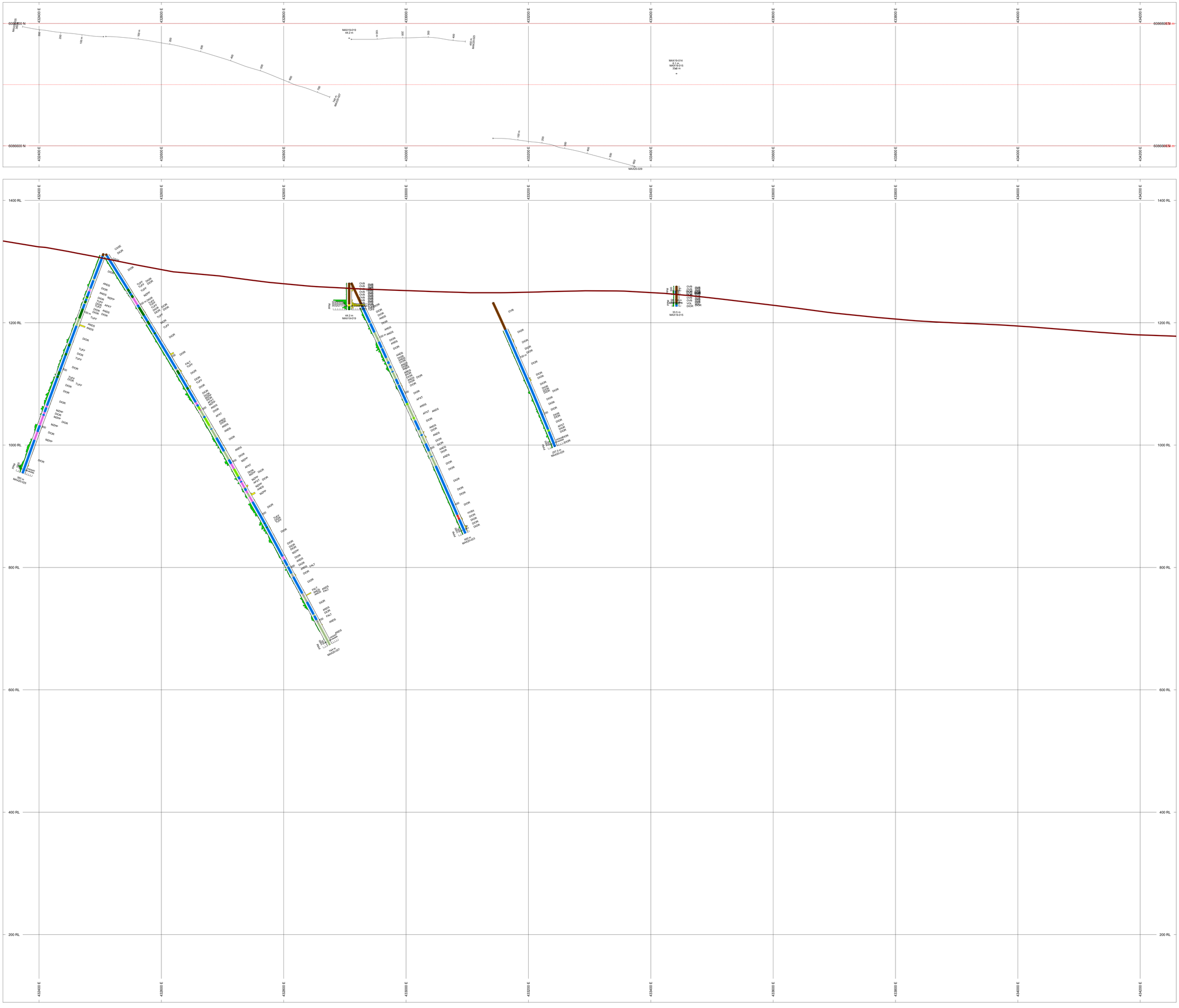
N W E S

Centerra Gold Inc

Max - K2

6086500N SECTION

2021-06-15



HOLES PLOTTED

TOTAL 7

MAX19-014	MAX19-015	MAX19-019	MAX20-023
MAX20-025	MAX20-027	MAX20-029	

TOPOGRAPHY

MaxTopography.dtm

BAR GRAPHS	L/R	COL
Au (ppm)	R	
Cu (ppm)	L	

ROCK CODES Lith1	PAT	LABEL
		ANDS
		ANTF
		APXT
		CASE
		DIOR
		FALT
		FVOL
		HYBX
		MZPP
		OVB
		TUFF
		VOL

POSTED TEXT Lith1	L/R	TEXT	ITEMS
	R	-------	All

SECTION SPECS:

REF. PT. E, N	433300 m	6086700 m
EXTENTS	1918 m	1345 m
SECTION TOP, BOT	1435 m	89.35 m
TOLERANCE +/-	100 m	

SCALE 1 : 2000

(m)

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NAD83 / UTM zone 10N

AZIMUTH = 90°

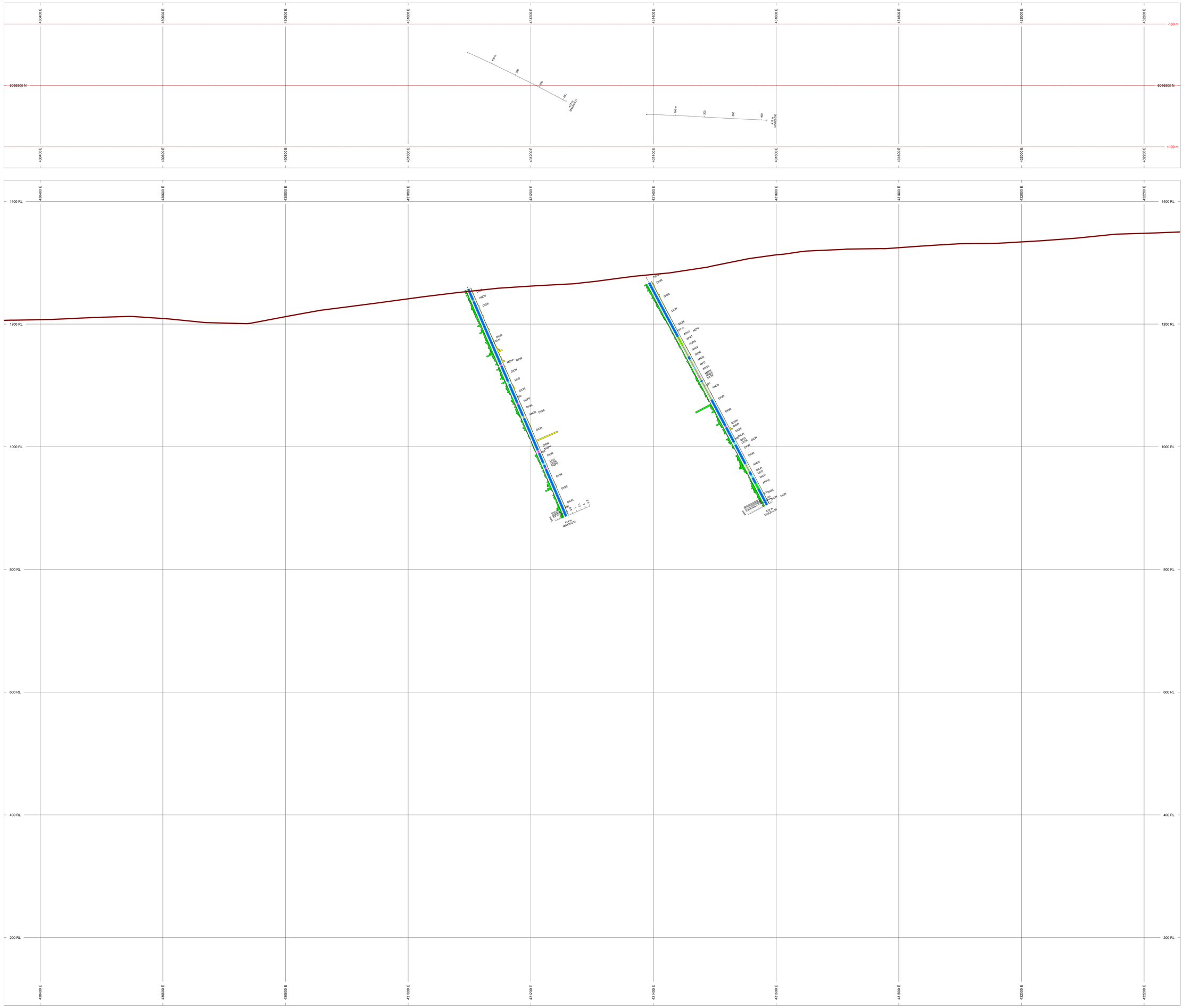
N W E S

Centerra Gold Inc

Max - K2

6086700N SECTION

2021-06-15



HOLES PLOTTED

TOTAL 2

MAX20-030 MAX20-031

TOPOGRAPHY

MaxTopography.dtm

BAR GRAPHS	L/R	COL
Au (ppm)	R	
Cu (ppm)	L	

ROCK CODES	PAT	LABEL
Lith1		ANDS
		ANTF
		APFW
		APXT
		DIOR
		MFD
		M2PP
		NCOR

POSTED TEXT	L/R	TEXT	ITEMS
Lith1	R	-------	All

SECTION SPECS:

REF. PT. E, N	431300 m	6086800 m
EXTENTS	1918 m	1345 m
SECTION TOP, BOT	1435 m	89.35 m
TOLERANCE +/-	100 m	

SCALE 1 : 2000

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 10N

AZIMUTH = 90°

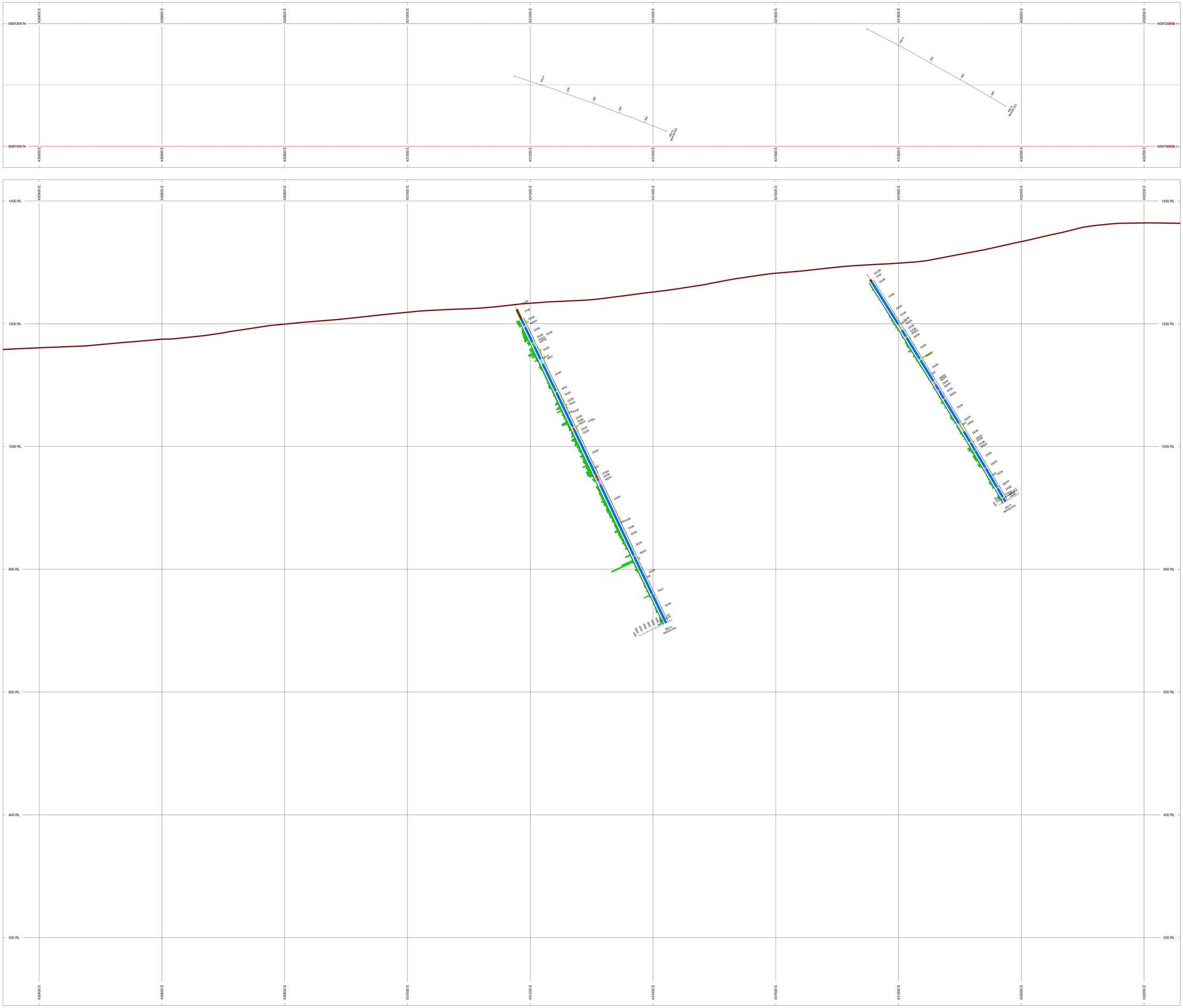
N W E S

Centerra Gold Inc

Max - K2

6086800N SECTION

2021-06-15



HOLES PLOTTED

TOTAL 2

MAX20-032 MAX20-033

TOPOGRAPHY

MaxTopography.dtm

BAR GRAPHS	L/R	COL
Au (ppm)	R	
Cu (ppm)	L	

ROCK CODES	PAT	LABEL
Lith1		ANDS
		APFW
		DIOR
		FALT
		HYBX
		MFD
		MZPP
		NCDR
		OVB

POSTED TEXT	L/R	TEXT	ITEMS
Lith1	R	------	All

SECTION SPECS:

REF. PT. E, N	431300 m	6087100 m
EXTENTS	1918 m	1345 m
SECTION TOP, BOT	1435 m	89.35 m
TOLERANCE +/-	100 m	

SCALE 1 : 2000

(m)

-20 0 20 40 60 80

NAD83 / UTM zone 10N

AZIMUTH = 90°

N W E S

Centerra Gold Inc

Max - K2

6087100N SECTION

2021-06-15

Appendix E

Ecofor Environmental Reports

2020 BNS - Daily Survey Summary (General)

2020-2245-001 / ECF-2020-BNS-000001 / 29 May 2020 / MP DC

Complete

Document No.	ECF-2020-BNS-000001
Client Centerra Gold	
EPN	2020-2245-001
Conducted on	29th May, 2020 8:46 AM PDT
Prepared by	Mark Pokorski
Crew Members (initials) MP DC	

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Appendix **12**

Bird Nesting Surveys

Site Survey Details

Survey site

Survey site 1

Site ID	Laydown
Site Location (Latitude and Longitude, or select from map)	(54.91938862954724, -124.0394177288972)
Date and Time	29th May, 2020 8:47 AM PDT

Habitat Description (vegetation cover, slope, aspect, etc)

Open meadow surrounded by alders. Subalpine fir and spruce dominant in surround forest. Willows and aspen occasional. Alder leaves not flushed. Ground cover just starting to emerge. Patches of snow common in shady areas. Shrubs general sparse under canopy. Some potential for ground nesters and tree nesters. Few snags. Bird singing nearby, but few alarm calls during walkthrough. Cutting will mainly be in alders and danger trees.

Nesting habitat potential	Moderate Potential (e.g. some areas with shrubs and trees)

Pass Number

1

Survey types conducted	Passive walkthrough Point count
Sky condition	Partly Cloudy
Precipitation	No Precipitation
Wind force (Beaufort Scale - 0 - 12)	B2 - Wind felt on face, leaves rustle, wind vanes begin to move
Were any nest sites located?	No
Photos attached?	Yes

Photodocumentation

Site Photo

Site Photo 1

Site Photo

Photo 1

Photo comments (if applicable)

Site looking south

Site Photo 2

Site Photo

Photo 2

Photo comments (if applicable)

Site looking north

Survey site 2

Site ID	20-Max03
Site Location (Latitude and Longitude, or select from map)	(54.92052877792615, -124.0393631627076)
Date and Time	29th May, 2020 9:43 AM PDT

Habitat Description (vegetation cover, slope, aspect, etc)

Previously cut pad. Will expand slightly on east and take down a danger trees. Spruce and balsam mainly with moderate shrub layer.
Two adult gray jays seen suspiciously quiet at west edge of cut block. Did not show any alarm behaviour when the area was walked through. No other alarm calls.

Nesting habitat potential	Moderate Potential (e.g. some areas with shrubs and trees)

Pass Number

1

Survey types conducted	Passive walkthrough Point count
Sky condition	Partly Cloudy
Precipitation	No Precipitation

Wind force (Beaufort Scale - 0 - 12)	B3 - Leaves and small twigs in constant motion
Were any nest sites located?	No
Photos attached?	Yes

Photodocumentation

Site Photo

Site Photo 1

Site Photo

Photo 3

Photo comments (if applicable)

Cut pad.

Site Photo 2

Site Photo

Photo 4

Photo comments (if applicable)

General forest conditions.

Survey site 3

Site ID	20-max01
Site Location (Latitude and Longitude, or select from map)	(54.922309709877, -124.043279497283)
Date and Time	29th May, 2020 10:48 AM PDT

Habitat Description (vegetation cover, slope, aspect, etc)

Open canopy spruce with some balsam. Open patches with dense alder, often over runoff streams. Leaves unflushed. Snow patches present. Will be high potential once shrubs flush out.

Nesting habitat potential	Moderate Potential (e.g. some areas with shrubs and trees)
Pass Number 1	
Survey types conducted	Passive walkthrough Point count
Sky condition	Partly Cloudy
Precipitation	No Precipitation
Wind force (Beaufort Scale - 0 - 12)	B1 - Smoke drift indicates wind direction; still wind wanes
Were any nest sites located?	Yes
Nest ID and Species (include more details in Summary Section) 2020-MTM-01-DEJU	
Photos attached?	Yes

Photodocumentation

Site Photo

Site Photo 1

Site Photo

Photo 5

Photo comments (if applicable)

General site looking south.

Site Photo 2

Site Photo

Photo 6

Photo comments (if applicable)

General site looking west.

Survey site 4

Site ID	20-max02
Site Location (Latitude and Longitude, or select from map)	(54.92315096115474, -124.0466728548652)
Date and Time	29th May, 2020 12:26 PM PDT

Habitat Description (vegetation cover, slope, aspect, etc)

Previously cleared pad. Clearing few trees for east and west ends. Spruce and balsam dominant uh moderate regen.

Nesting habitat potential	Moderate Potential (e.g. some areas with shrubs and trees)

Pass Number

1

Survey types conducted	Passive walkthrough Point count
Sky condition	Partly Cloudy
Precipitation	No Precipitation
Wind force (Beaufort Scale - 0 - 12)	B3 - Leaves and small twigs in constant motion
Were any nest sites located?	No
Photos attached?	Yes

Photodocumentation

Site Photo

Site Photo 1

Site Photo

Photo 7

Photo comments (if applicable)

General site photos

Site Photo 2

Site Photo

Photo 8

Photo comments (if applicable)

General site Photo

Survey site 5

Site ID	20-max06/11
Site Location (Latitude and Longitude, or select from map)	(54.92338088811834, -124.0529780556672)
Date and Time	29th May, 2020 1:34 PM PDT

Habitat Description (vegetation cover, slope, aspect, etc)

Rocky slope with subalpine trees. Spruce and subalpine fir plus alder. Regen fairly thick, so harder to search. Thrush was giving alarm call from downslope on arrival. Snow patches.

Nesting habitat potential	Moderate Potential (e.g. some areas with shrubs and trees)

Pass Number

1

Survey types conducted	Passive walkthrough Point count
Sky condition	Partly Cloudy
Precipitation	No Precipitation
Wind force (Beaufort Scale - 0 - 12)	B3 - Leaves and small twigs in constant motion
Were any nest sites located?	No
Photos attached?	Yes

Photodocumentation

Site Photo

Site Photo 1

Site Photo

Photo 9

Photo comments (if applicable)

General site photo.

Site Photo 2

Site Photo

Photo 10

Photo comments (if applicable)

General site photo.

Survey site 6

Site ID	20-max08/13
Site Location (Latitude and Longitude, or select from map)	(54.91936444775659, -124.051275607314)
Date and Time	29th May, 2020 3:06 PM PDT

Habitat Description (vegetation cover, slope, aspect, etc)

East aspect sloping 20%. Mostly spruce with balsam regen. Snow patches very common. Leaves not yet flushed on huckleberry. Balsam regen plentiful but not very dense. Easy to see a long way and not ideal for shrub nesters.

Nesting habitat potential	Moderate Potential (e.g. some areas with shrubs and trees)

Pass Number

1

Survey types conducted	Passive walkthrough Point count
Sky condition	Partly Cloudy
Precipitation	No Precipitation

Wind force (Beaufort Scale - 0 - 12)	B4 - Dust, leaves and loose paper lifted; small tree branches move
Were any nest sites located?	No
Photos attached?	Yes

Photodocumentation

Site Photo

Site Photo 1

Site Photo

Photo 11

Photo comments (if applicable)

General site photo looking downhill

Site Photo 2

Site Photo

Photo 12

Photo comments (if applicable)

General photo looking uphill.

Survey Results Summary

Summary of Sites Surveyed (Site ID numbers)

6 sites were surveyed: laydown, 20-Max03, 20-Max01, 20-Max02, 20-Max06/11, 20-Max08/13.
Lots of snow patches left in woods, and most shrubs and herbs are just beginning to flush out. Some birds are present and singing. Nesting is likely to intensify as weather warms and the site greens up.
Each of the sites above was visited and surveyed for active bird nests and bird nesting behaviors. The sites were each surveyed out to a radius of approximately 60 from the centre.

Nest Site Summary (Include Nest Site ID, Species, and UTM coordinates of nest, and buffer radius flagged; more details in Nest Site Forms)

1 nest site located: 2020-MtM-01-DEJU. UTM coordinate 10.433215.6086583. Approximately 70 m SW from 20-Max01. Should not be danger from clearing activities. Cutting crew is aware of the nest site and will avoid disturbing.

Survey Maps

Add maps showing photo (add and annotate map from file or take photo of paper map; indicate approximate locations of nests and buffers)

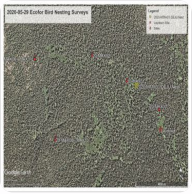


Photo 13

Survey Validity Period

The sites listed in this report have had bird nesting surveys conducted to search for active bird nesting sites. Work can take place at these sites (excluding any active nest buffers) within the following survey validity period (excluding any flagged buffers around active nest sites that were found). After the validity period, an additional survey is required to refresh the validity period before work can continue.

Start of Validity Period	29th May, 2020
End of Validity Period (end of day)	5th Jun, 2020

Closure

Bird nesting surveys were conducted with the intent to locate all active nest sites within the area of impact as described by the client. However, nest sites can be missed by the surveyors. If workers conducting operations at any of the sites in this report encounter agitated birds (e.g. excessive alarm calls, dive-bombing, feigned injury distraction displays etc.) work should cease at that site until a qualified biologist can be contacted to assess the situation. It is still a violation of provincial and federal legislation to disturb nesting birds, even if a survey has been completed on the area.

Sign off

Qualified Environmental Professional signature

29th May, 2020 7:15 PM PDT

Appendix

Photo 1

Photo 2

Photo 3

Photo 4

Photo 5

Photo 6

Photo 7

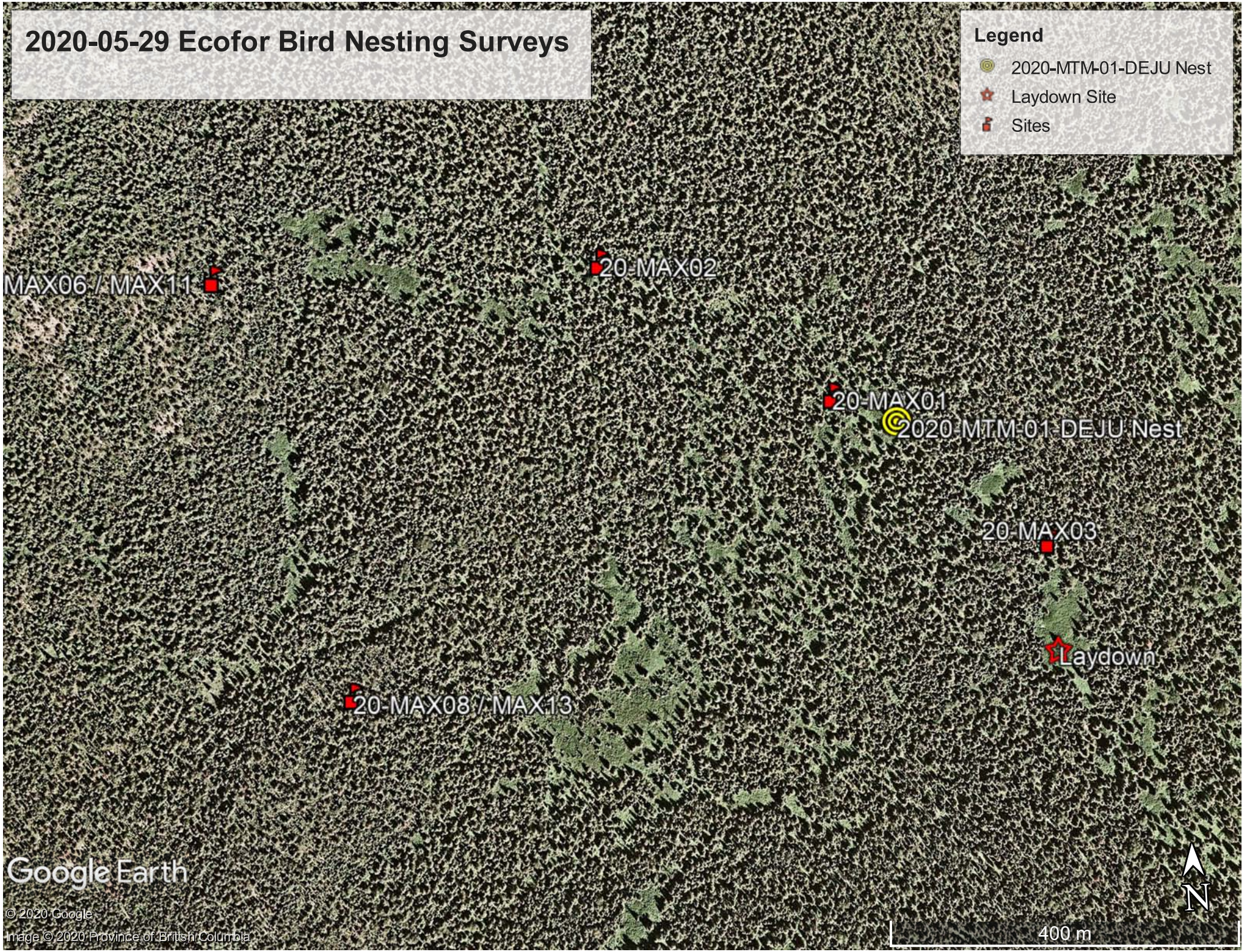
Photo 8

Photo 9

Photo 10

Photo 11

Photo 12


2020-05-29 Ecofor Bird Nesting Surveys
Legend
2020-MTM-01-DEJU Nest
Laydown Site
Sites
MAX06 / MAX11
20-MAX02
20-MAX01
2020-MTM-01-DEJU Nest
20-MAX03
Laydown
20-MAX08 / MAX13
Google Earth
© 2020 Google
Image © 2020 Province of British Columbia
N
400 m

2020 BNS - Nest Site Report (General)

ECF-2020-Nest_Site~000001 / 2020-MtM-001-DEJU / 29 May 2020

Complete

Document No.	ECF-2020-Nest_Site~000001
Nest ID # (2019-Client-00X-Species Code)	2020-MtM-001-DEJU
Client	Centres
Conducted on	29th May, 2020 11:37 AM PDT
Prepared by	Mark Pokorski
Observers (initials)	MP
Location	(54.92178681777317, -124.0420504008644)
GPS Location of Nest (enter UTM coordinates from GPS)	10.433215.6086583

Nest Site Summary

Nest site bird species (4 letter code)	DEJU
Height off ground (m)	0m
Nest built in/on:	Ground
Nest site stage	Eggs
Estimated Date of Nest Completion (consult reference sheet for species' nesting times)	25th Jun, 2020
Buffer flagged?	No

Drill pad will be cut such that it doesn't come towards nest.

Buffer radius prescribed (m).	30

List bird activities observed (justification for designation of active nest site)

Bird flushed from nest.

Description of nest site (include location, general habitat and other details, buffer size considerations etc)

Nest under dead vegetation below piece of old log.

Photos of site (general overview, nest; include annotations if helpful)

Photo 1

Photo 2

Photo 3

Photo 4

Sign off

Environmental Monitor signature

29th May, 2020 11:48 AM PDT

Appendix

Photo 1

Photo 2

Photo 3

Photo 4

Appendix F

Induced Polarization Logistics Report

A LOGISTRICS REPORT

ON

INDUCED POLARIZATION SURVEYING

Max-K2 Property
Fort St. James Area,
Omineca M.D. , B.C.
54° 56'N, 124° 02' W
NTS: 93N/16

CLAIMS:

532535,532538,532540-43,551895

Survey Dates: September 24th- October 7th, 2020
November 11th-25th, 2020

FOR

THOMPSON CREEK METALS INC.

Prince George, B.C.

BY

PETER E. WALCOTT & ASSOCIATES LIMITED

Coquitlam, B.C.

FEBRUARY 2021

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Introduction	3
Property Location & Access	4
Survey Specifications	7

APPENDIX I

ACCOMPANYING MAPS	MAP POCKET
Claim and Line Location Map	Scale 1: 10,000
IP Pseudo-Sections Line 4800,5200,5600	Scale 1: 10,000
Line 6600, 7000 PLDP Line 6600, 7000 DPPL	
2D DC/IP Inversions Line 4800,5200,5600,6600,7000	Scale 1: 10,000

INTRODUCTION.

Between September 24th and October 7th, 2020, and from November 11th – 25th, 2020, Peter E. Walcott & Associates Limited undertook line establishment and induced polarization surveying over portions of the Max property for Thompson Creek Metals Inc.

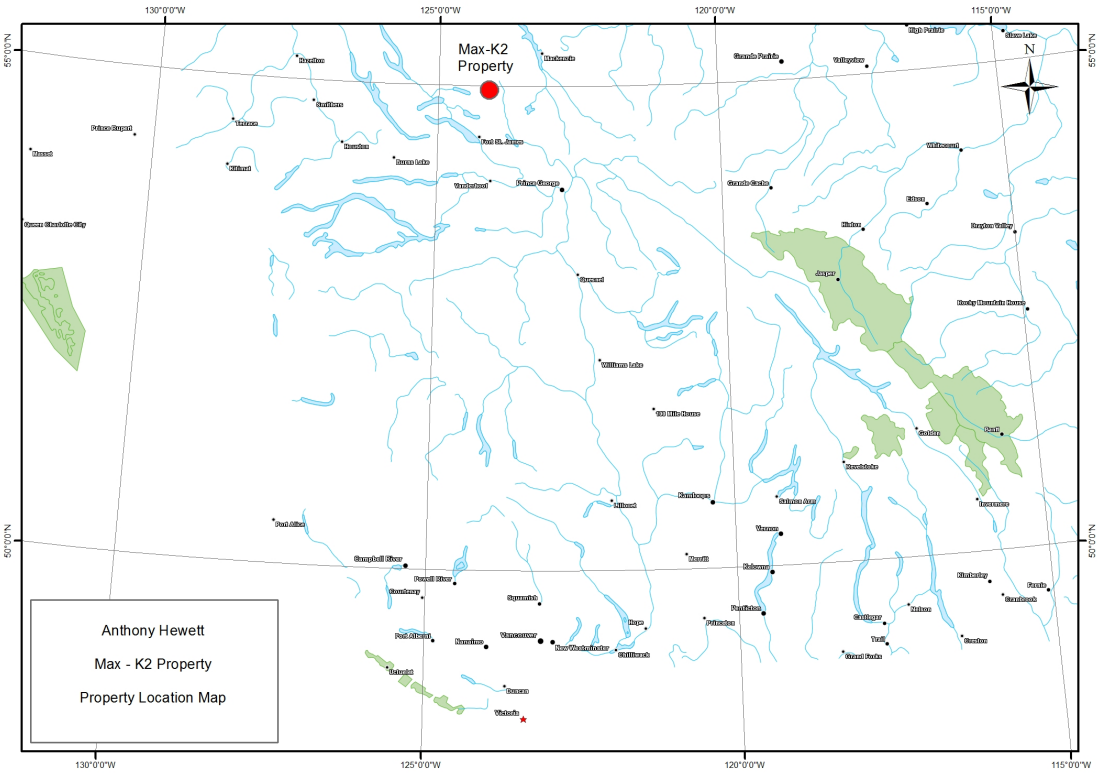
The line establishment and induced polarization survey consisted of some 21 -line kilometers, carried out on 5 east-west traverses. Access to portions of the grid hampered production.

PROPERTY, LOCATION & ACCESS.

The Max-K2 property is located in the Omineca Mining Division of British Columbia some 57 kilometres northeast of the settlement of Fort St. James. It consists of the following claims:

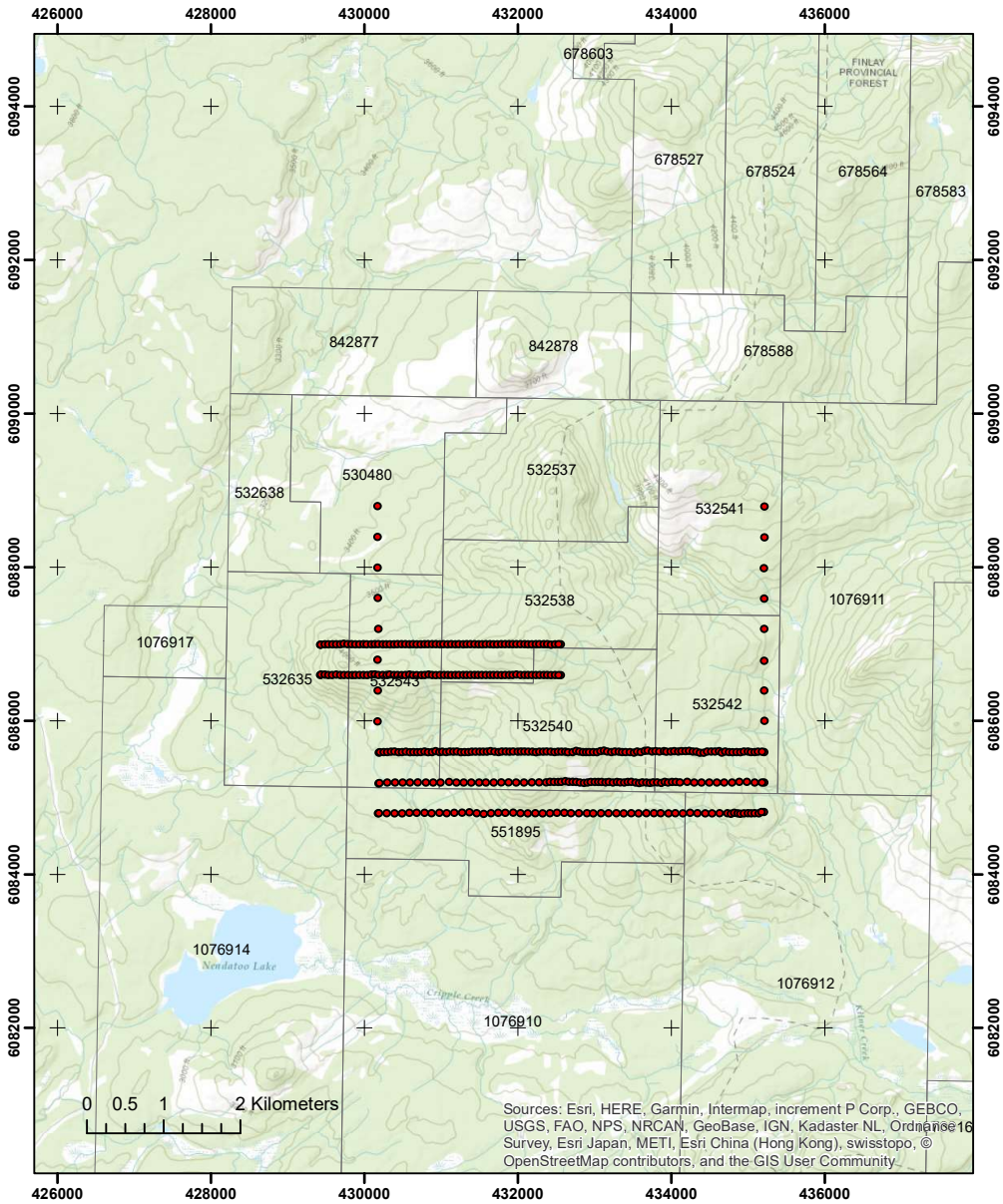
Access to the property is readily obtainable by active and old resource roads off the Rainbow forest service road, which is in turn accessed from the North Road.

PROPERTY, LOCATION & ACCESS cont'd.



Property Location Map

PROPERTY, LOCATION & ACCESS cont'd.



Claim and Line Location Map

SURVEY SPECIFICATIONS.

The Induced Polarization Survey.

The induced polarization (IP) survey was conducted using a pulse type system, the principal components of which were manufactured by Walcer Geophysics Ltd. of Enniskillen, Ontario, and by Instrumentation GDD of St. Foy, Quebec.

The system consists basically of three units, a receiver (GDD), transmitter (Walcer) and a motor generator (Honda). The transmitter, which provides a maximum of 9.0 kw dc to the ground, obtains its power from a 20 kw 60 cps alternator driven by a Honda 24 hp gasoline engine. The cycling rate of the transmitter is 2 seconds "current-on" and 2 seconds "current-off" with the pulses reversing continuously in polarity. The data recorded in the field consists of careful measurements of the current (I) in amperes flowing through the current electrodes C_1 and C_2, the primary voltages (V) appearing between any two potential electrodes, P_1 through P_7, during the "current-on" part of the cycle, and the apparent chargeability, (M_a) presented as a direct readout in millivolts per volt using a 200 millisecond delay and a 1000 millisecond sample window by the receiver, a digital receiver controlled by a micro-processor – the sample window is actually the total of twenty individual windows of 50 millisecond widths.

The apparent resistivity (ρ_a) in ohm metres is proportional to the ratio of the primary voltage and the measured current, the proportionality factor depending on the geometry of the array used. The chargeability and resistivity are called apparent as they are values which that portion of the earth sampled would have if it were homogeneous. As the earth sampled is usually inhomogeneous the calculated apparent chargeability and resistivity are functions of the actual chargeability and resistivity of the rocks.

The survey was carried out using the "pole-dipole" method of surveying. In this method the current electrode, C_1, and the potential electrodes, P_1 through P_{n+1}, are moved in unison along the survey lines at a spacing of "a" (the dipole) apart, while the second current electrode, C_2, is kept constant at "infinity". The distance, "na" between C_1 and the nearest potential electrode generally controls the depth to be explored by the particular separation, "n", traverse.

On this survey a 100 metre dipole was employed and first to eighth separations readings were obtained. In total some 21 line kilometres of surveying were completed.

SURVEY SPECIFICATIONS cont'd.

Horizontal and vertical control.

The horizontal position of the stations was recorded using a GPS/GLONASS equipped Garmin C66 handheld GPS receiver.

Data Presentation.

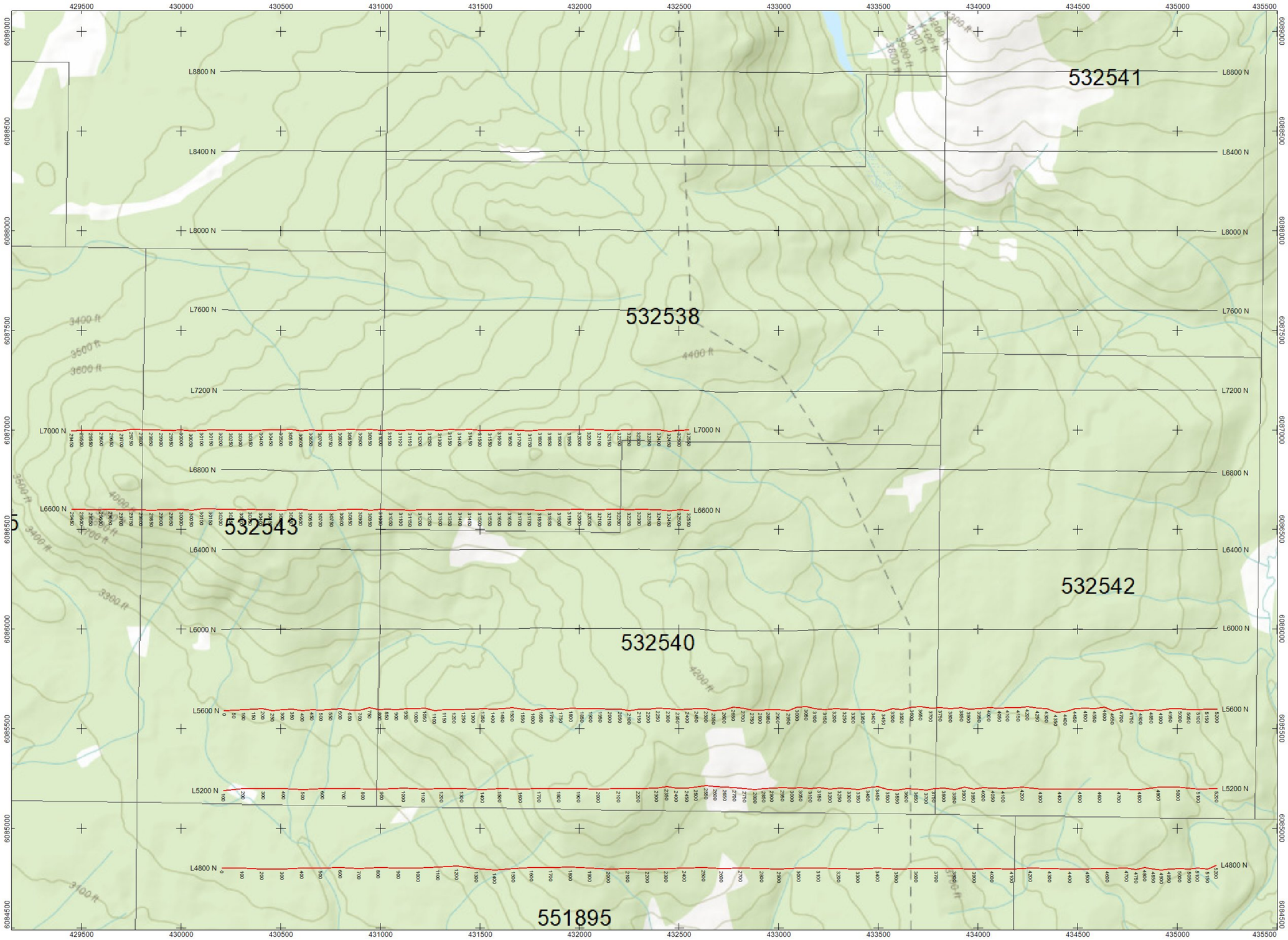
The data are presented as individual pseudo section plots of apparent resistivity and apparent chargeability at a scale of 1:10,000 generated using Geosoft Oasis Montaj. In addition, data was subjected to 2D and 3D inversion and presented as sections at a scale of 1: 10,000.

APPENDIX I

PERSONNEL EMPLOYED ON SURVEY.

Name	Occupation	Address	Dates Worked
A. Walcott	Geophyicist	Peter E. Walcott & Associates Limited 111-17 Fawcett Rd., Coquitlam, B.C.	
M. Welz	"	"	Nov 11 - 25th, 2020
J. Cornock	"	"	Sept. 24-Oct 7, 2020
B. Jones	Geophysical Operator	"	"
C. Roe	"	"	Sept. 24-Oct 7, 2020 Nov 11, 2020-
O. Kucera	"	"	Sept. 24-Oct 7, 2020
P. Hospodka	"	"	"
D. Olund	Geophysical Helper	"	"
Nigel Street	"	"	Nov 11 - 25th, 2020
Emerson Wolski	"	"	"
Tyler Sam	"	"	"
Kevin Martin	"	"	"

ACCOMPANYING MAPS



Scale 1:10000

200 0 200 400 600

(meters)

WGS 84 / UTM zone 10N

THOMPSON CREEK METALS INC.

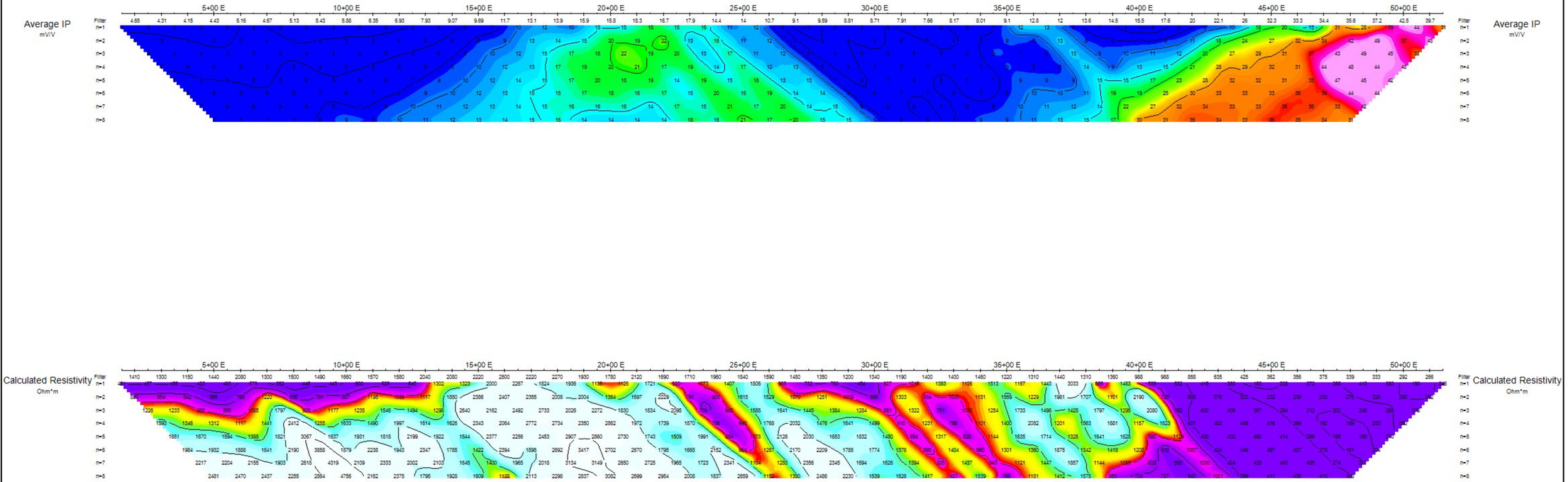
INDUCED POLARIZATION SURVEY
LINE AND CLAIM LOCATION MAP

MAX PROPERTY,
FT. ST. JAMES, B.C.
FALL 2020

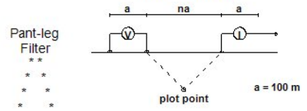
PETER E. WALCOTT & ASSOCIATES LIMITED

Pseudo Section Plot

48+00 N



Dipole-Pole Array



Logarithmic Contours 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:10000

100 0 100 200 300 400 500 600

(meters)

THOMPSON CREEK METALS INC.

INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

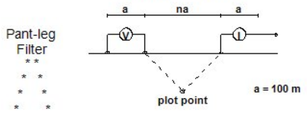
Date: FALL 2020

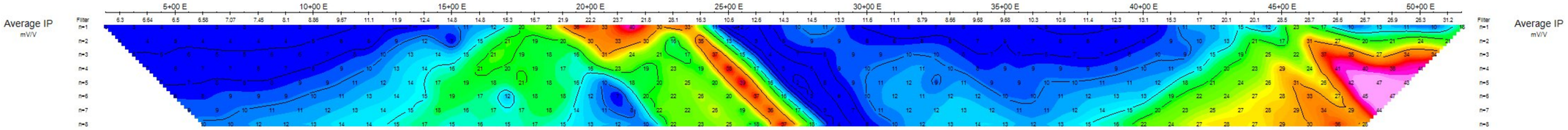
PETER E. WALCOTT & ASSOCIATES LIMITED

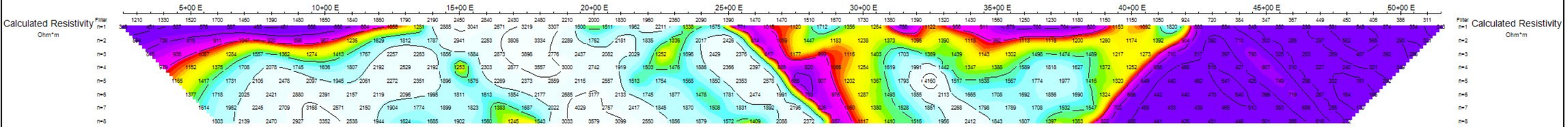
Pseudo Section Plot

52+00 N

Dipole-Pole Array







Logarithmic Contours 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:10000

100 0 100 200 300 400 500 600

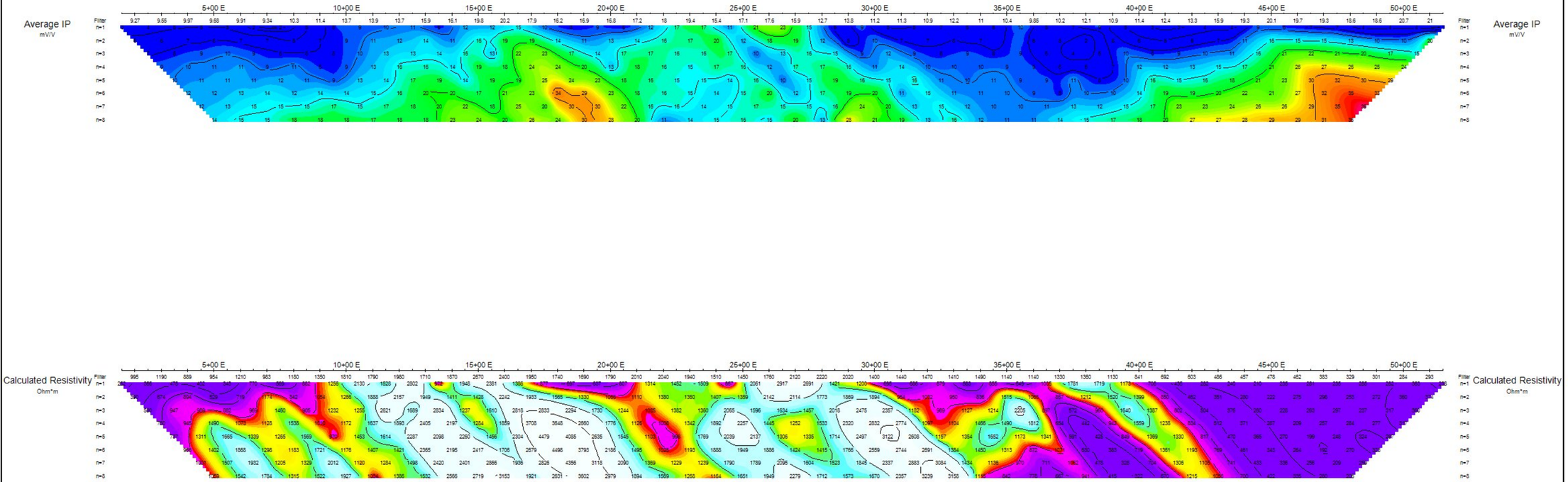
(meters)

THOMPSON CREEK METALS INC.

INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

Date: FALL 2020

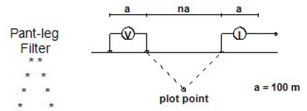
PETER E. WALCOTT & ASSOCIATES LIMITED



Pseudo Section Plot

56+00 N

Dipole-Pole Array



Logarithmic Contours 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:10000

100 0 100 200 300 400 500 600

(meters)

THOMPSON CREEK METALS INC.

INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

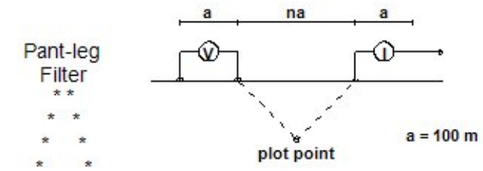
Date: FALL 2020

PETER E. WALCOTT & ASSOCIATES LIMITED

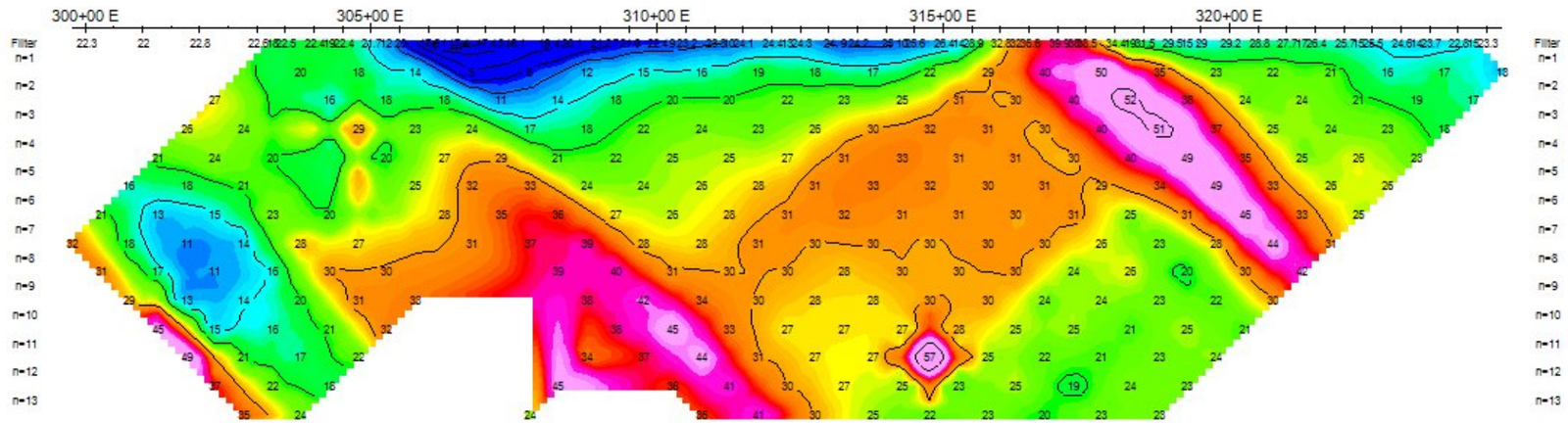
Pseudo Section Plot

66+00 N

Dipole-Pole Array



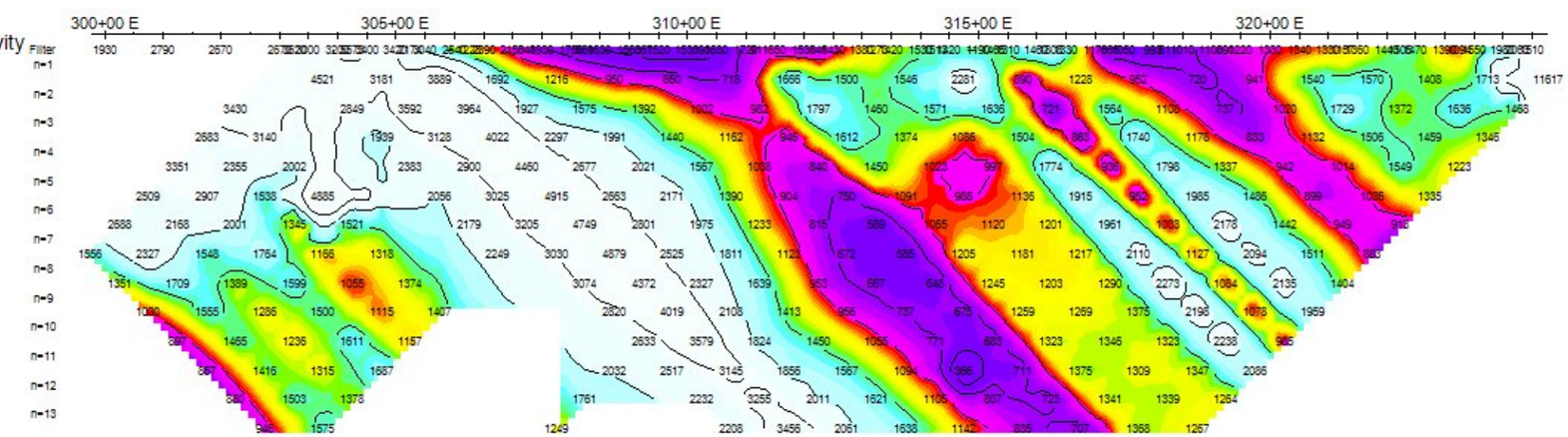
Average IP
mV/V



Average IP
mV/V

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Calculated Resistivity
Ohm*m



Calculated Resistivity
Ohm*m

Scale 1:10000

100 0 100 200 300 400 500 600

(meters)

THOMPSON CREEK METALS INC.

INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

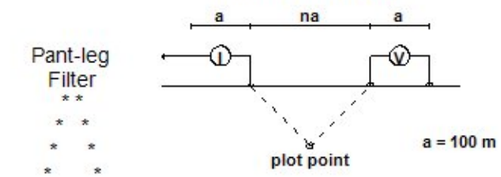
Date: FALL 2020

PETER E. WALCOTT & ASSOCIATES LIMITED

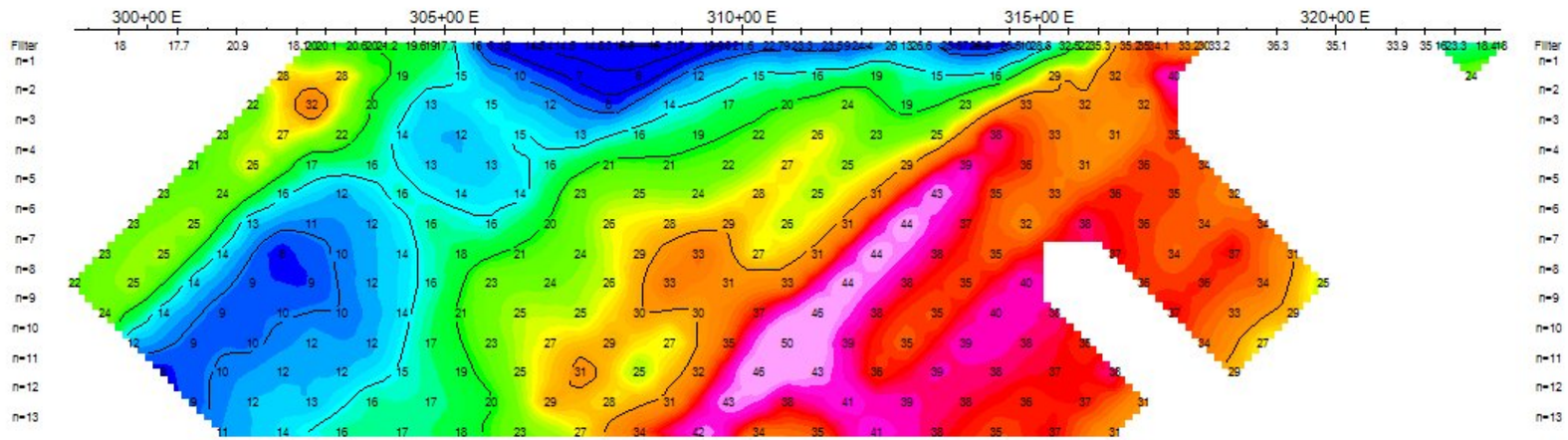
Pseudo Section Plot

66+00 N

Pole-Dipole Array



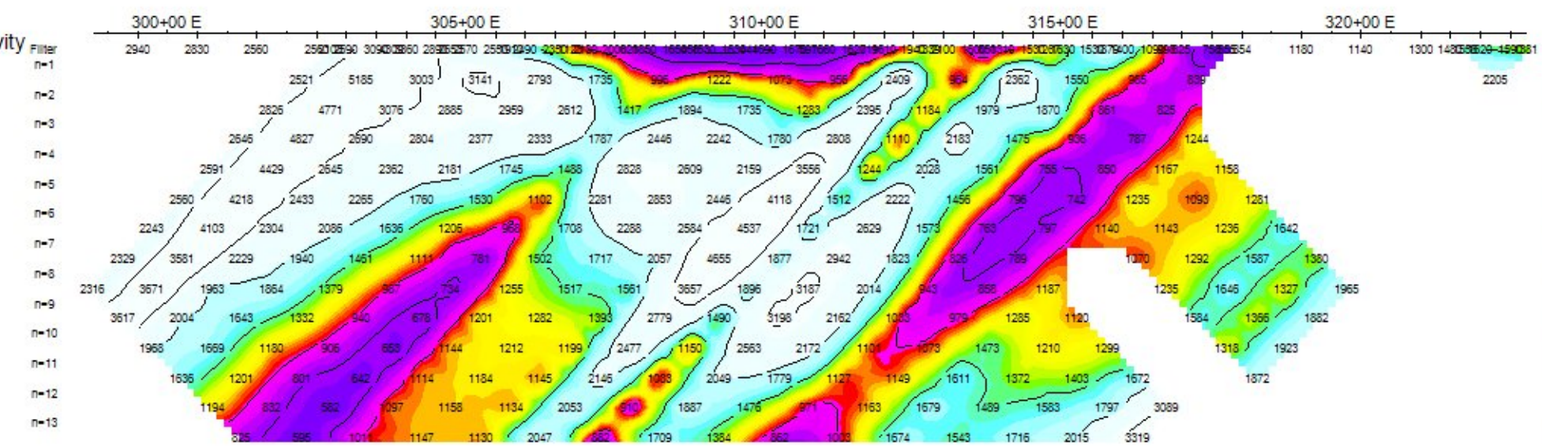
Average IP
mV/V



Average IP
mV/V

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Calculated Resistivity
Ohm*m



Calculated Resistivity
Ohm*m

Scale 1:10000

100 0 100 200 300 400 500 600

(meters)

THOMPSON CREEK METALS INC.

INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

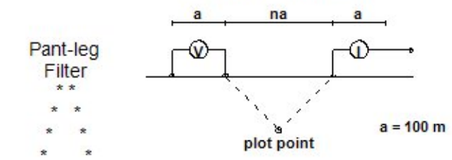
Date: FALL 2020

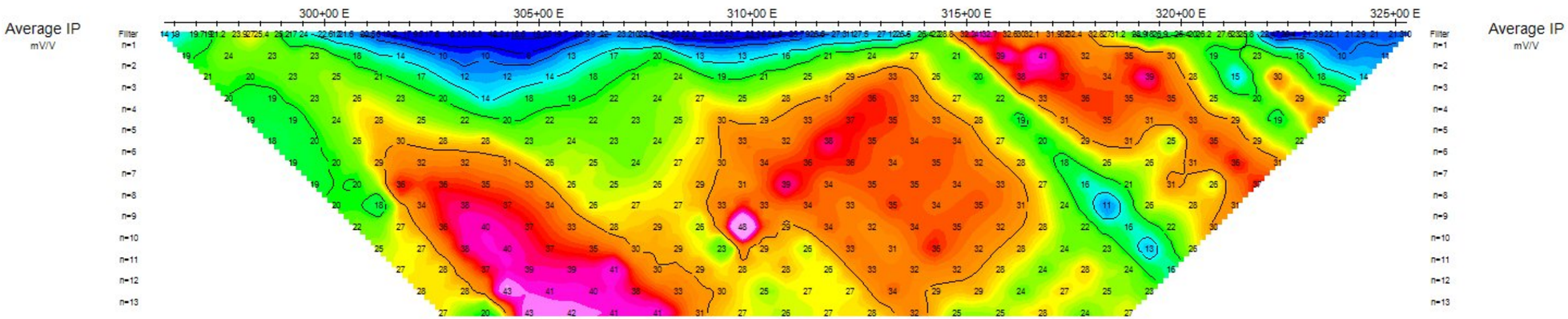
PETER E. WALCOTT & ASSOCIATES LIMITED

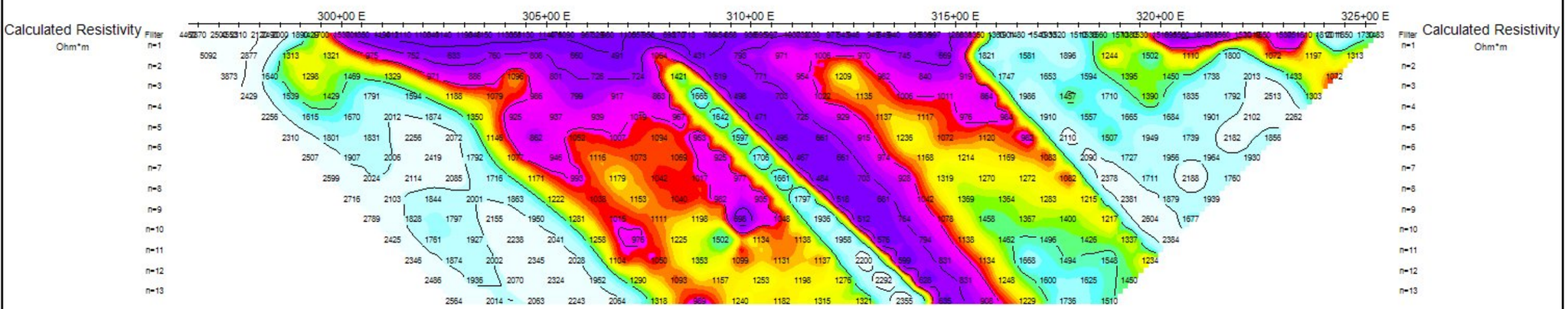
Pseudo Section Plot

70+00 N

Dipole-Pole Array







Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:10000

100 0 100 200 300 400 500 600

(meters)

THOMPSON CREEK METALS INC.

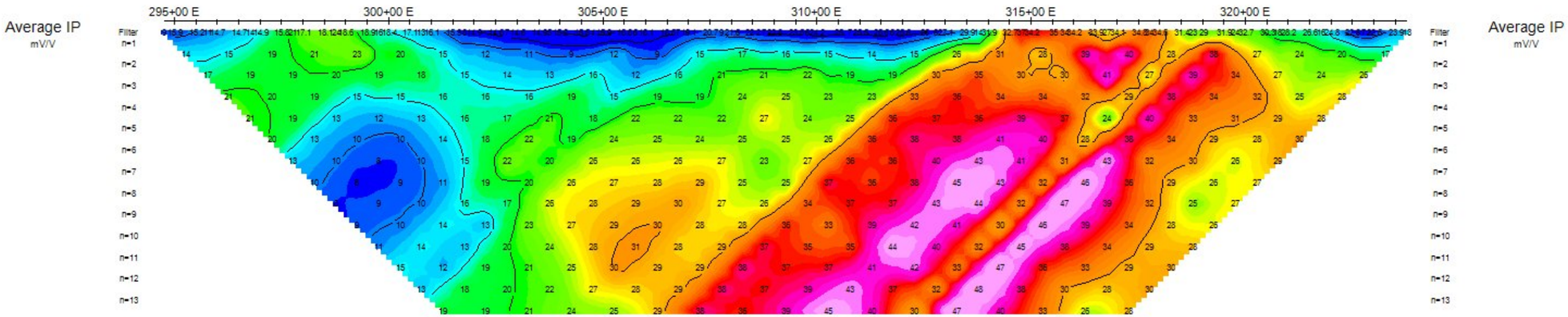
INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

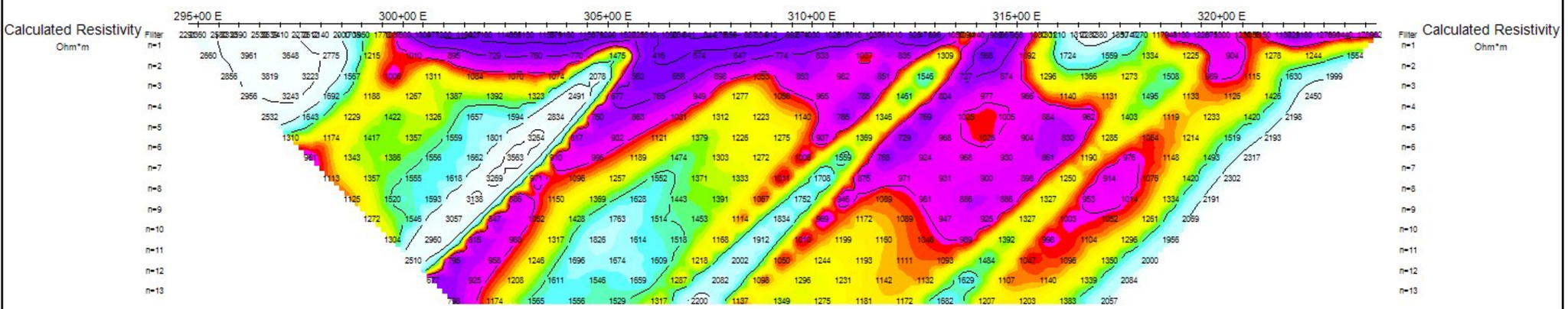
Date: FALL 2020

PETER E. WALCOTT & ASSOCIATES LIMITED

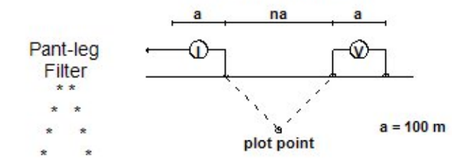
Pseudo Section Plot

70+00 N





Pole-Dipole Array



Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...

Scale 1:10000

100 0 100 200 300 400 500 600

(meters)

THOMPSON CREEK METALS INC.

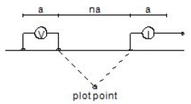
INDUCED POLARIZATION SURVEY
MAX PROPERTY,
FT. ST. JAMES, B.C.

Date: FALL 2020

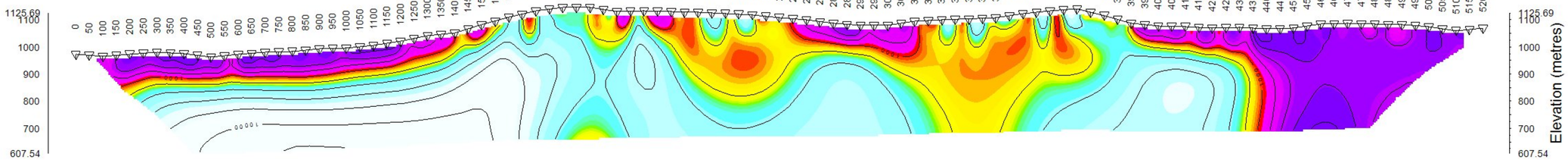
PETER E. WALCOTT & ASSOCIATES LIMITED

Line 4800

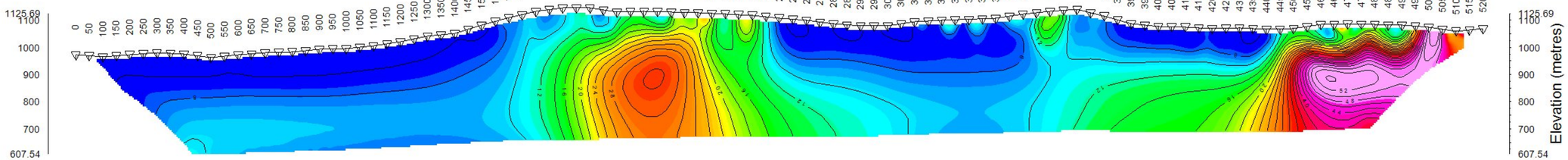
Dipole-Pole Array

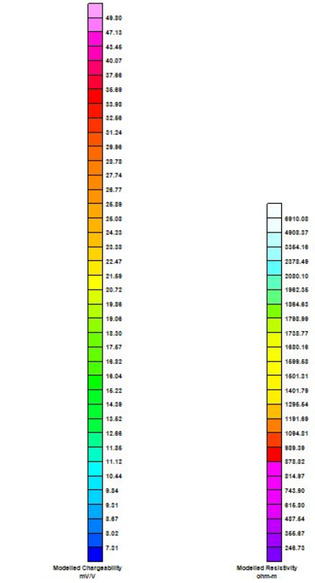


Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)





Scale 1:10000

200 0 200 400 600

(meters)

THOMPSON CREEK METALS INC.

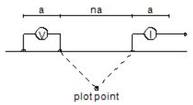
INDUCED POLARIZATION SURVEY
MAX PROJECT
BRITISH COLUMBIA

Date: FALL 2020
RES2DINV

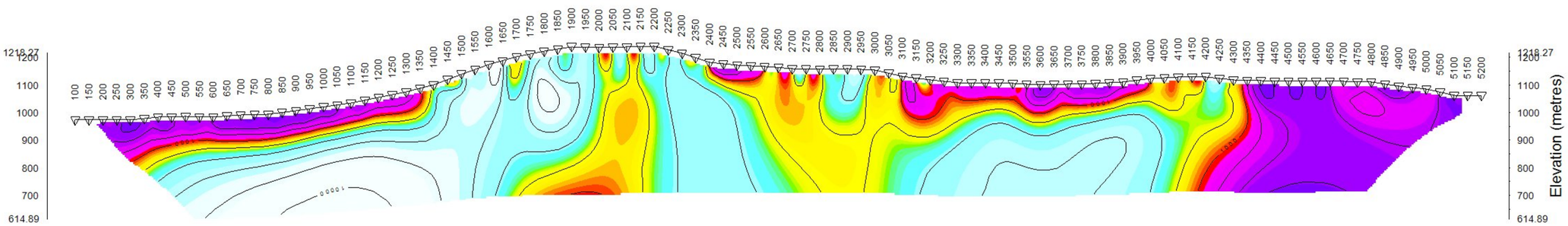
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED

Line 5200

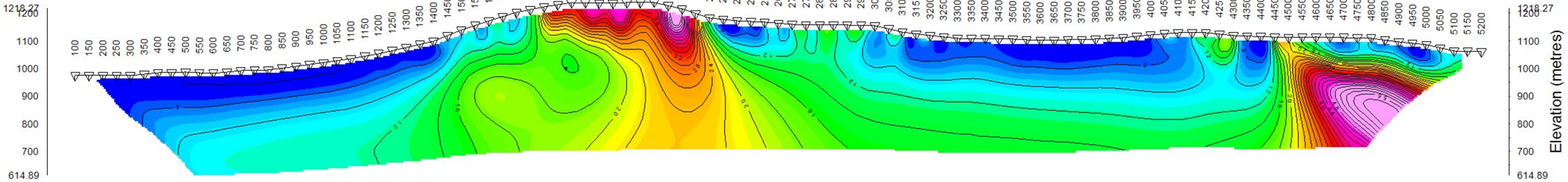
Dipole-Pole Array

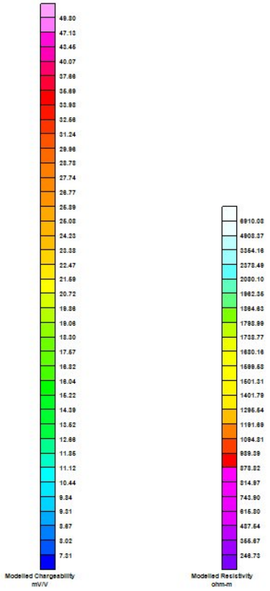


Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)





Scale 1:10000

200 0 200 400 600

(meters)

THOMPSON CREEK METALS INC.

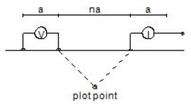
INDUCED POLARIZATION SURVEY
MAX PROJECT
BRITISH COLUMBIA

Date: FALL 2020
RES2DINV

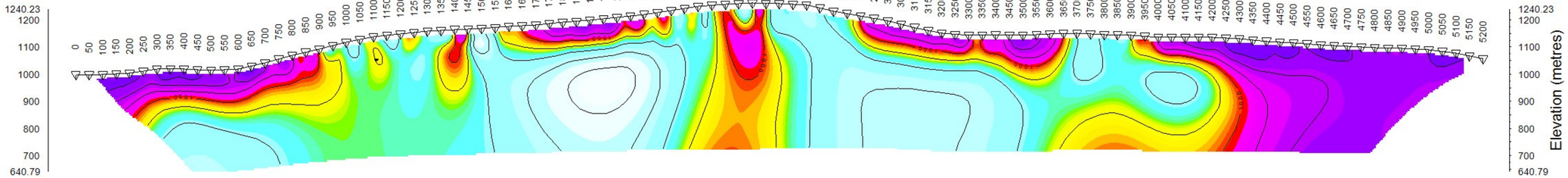
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED

Line 5600

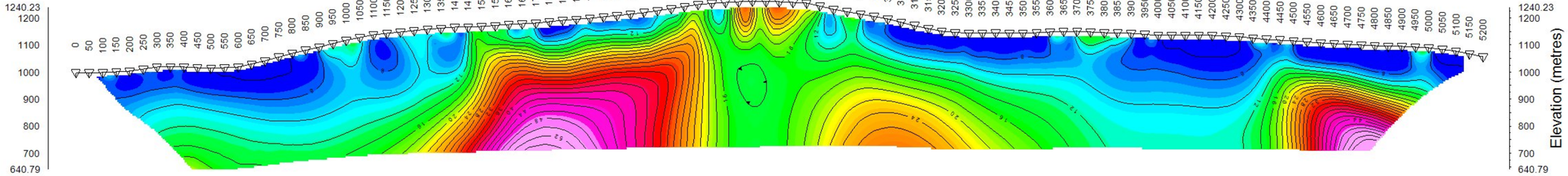
Dipole-Pole Array

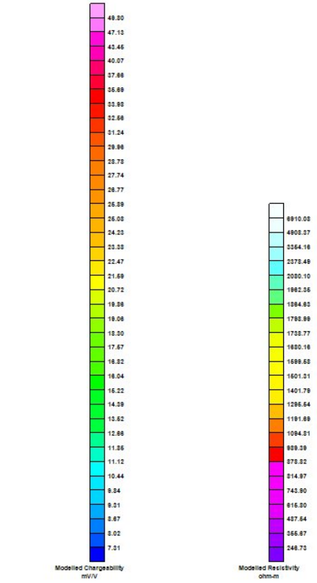


Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)





Scale 1:10000

200 0 200 400 600

(meters)

THOMPSON CREEK METALS INC.

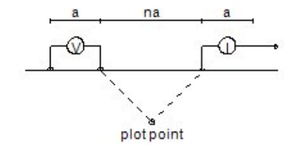
INDUCED POLARIZATION SURVEY
MAX PROJECT
BRITISH COLUMBIA

Date: FALL 2020
RES2DINV

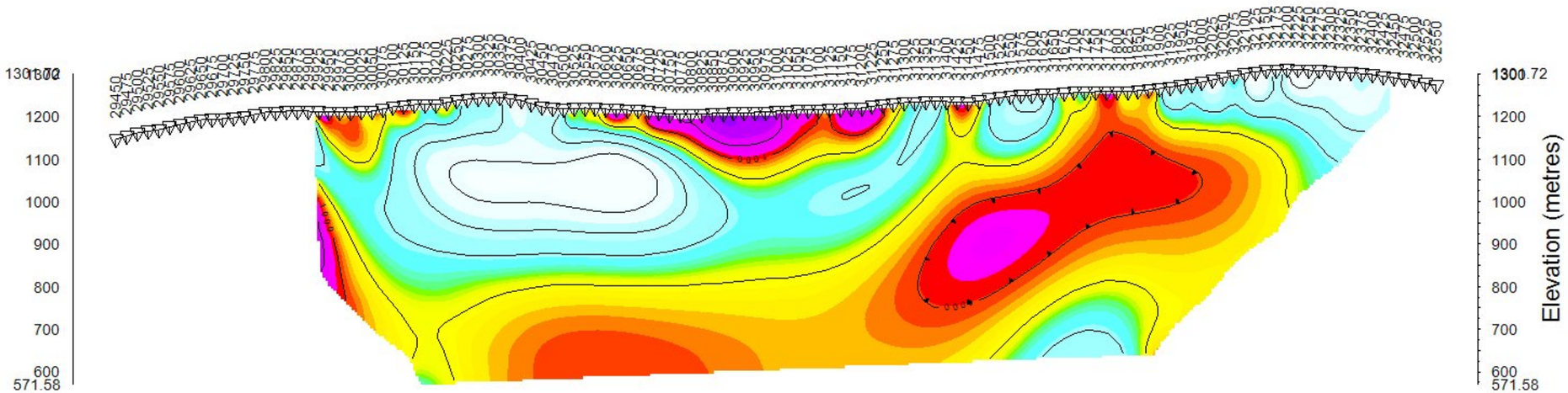
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED

Line 6600

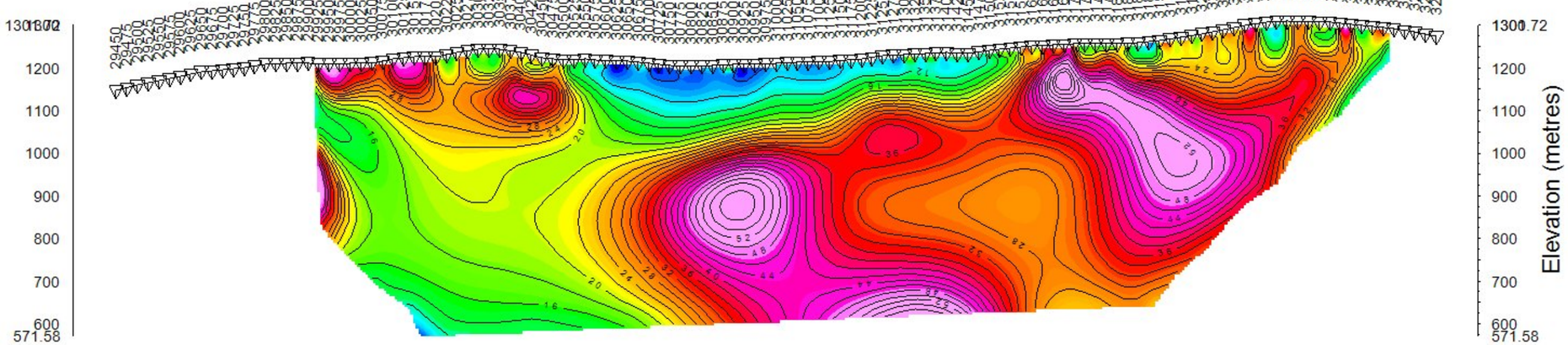
Dipole-Pole Array

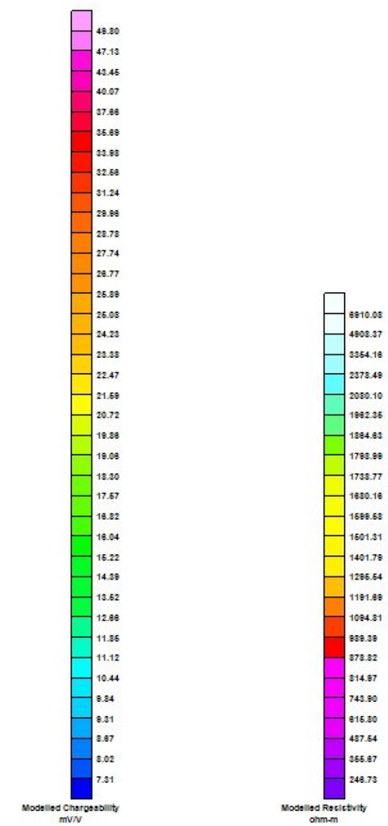


Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)

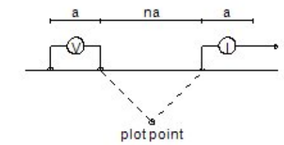




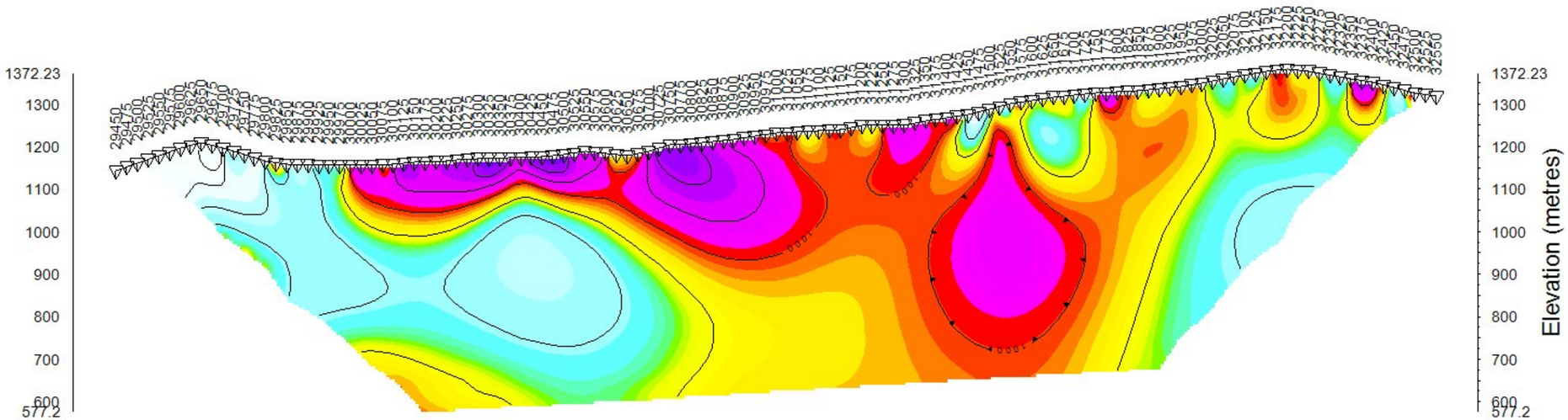
THOMPSON CREEK METALS INC.
INDUCED POLARIZATION SURVEY MAX PROJECT BRITISH COLUMBIA
Date: FALL 2020 RES2DINV
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED

Line 7000

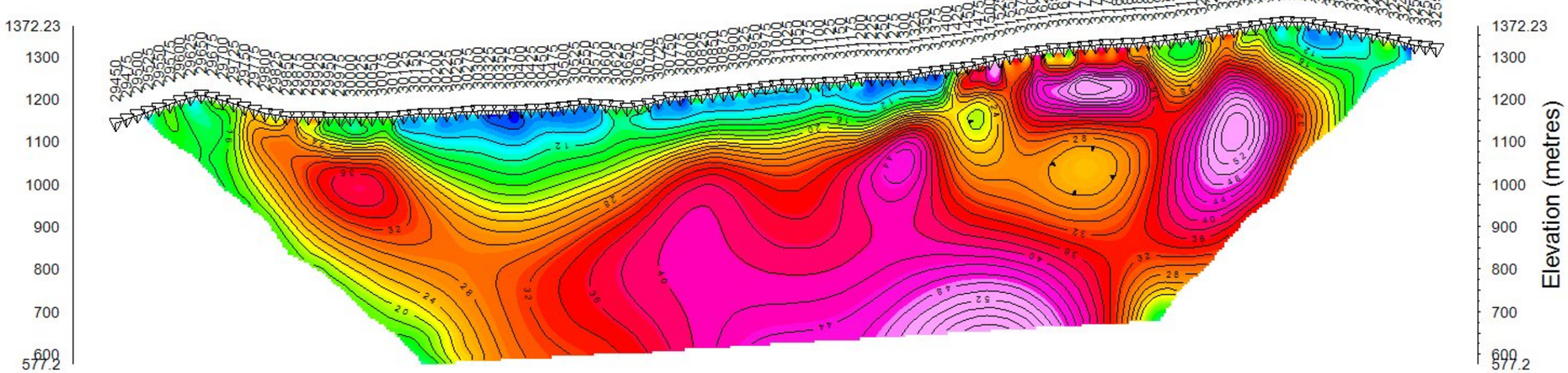
Dipole-Pole Array

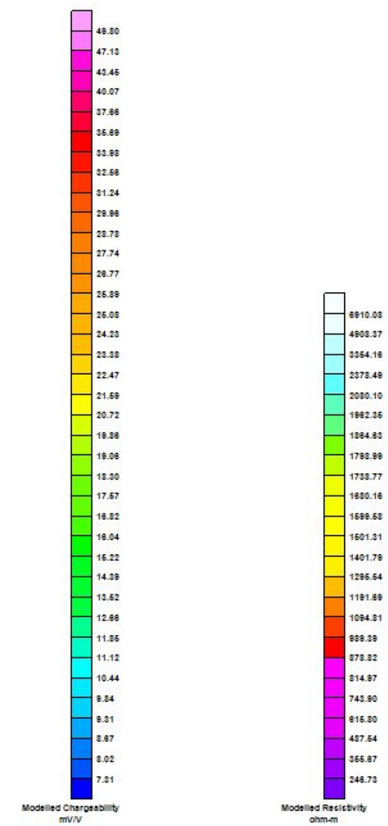


Modelled Resistivity (Ohm-m)



Modelled Chargeability (mV/V)





Scale 1:10000

200 0 200 400 600

(meters)

THOMPSON CREEK METALS INC.
INDUCED POLARIZATION SURVEY MAX PROJECT BRITISH COLUMBIA
Date: FALL 2020 RES2DINV
Inversion By:PETER E. WALCOTT & ASSOCIATES LIMITED

Appendix G

Airborne Magnetics Logistics Report

A LOGISTICS REPORT

ON

AIRBORNE MAGNETIC SURVEYING

MAX PROPERTY
FT. ST. JAMES AREA, BRITISH COLUMBIA

OMINECA M.D.
54° 57.505' N, 123° 57.642' W
NTS 093J/13,093K/16,093N/01,093O/04

Claims:
521189,521198-521200,521202-521205,521208-521210
524891,524892,532542,532635,551895,678524,678527,
678536,678564,678583,578588,678603,1076910-1076917

Work Dates:
October 13th-15th, 2020
March 25th-29th, 2021

FOR

THOMPSON CREEK METALS CO INC.

A Subsidiary of Centerra Gold

PRINCE GEORGE, BRITISH COLUMBIA

BY

ALEXANDER WALCOTT
PETER E. WALCOTT & ASSOCIATES LIMITED
Coquitlam, British Columbia

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INTRODUCTION……..	3
PROPERTY, LOCATION AND ACCESS……...	4
SURVEY SPECIFICATIONS……...	6
DATA PROCESSING AND PRESENTATION……...……	8

APPENDIX I

Personnel Employed on Survey

ACCOMPANYING MAPS

Claim Location Map	Scale 1: 50,000
Contours of Total Field Intensity (nT) 2020-2021 Combined	Scale 1: 50,000
Contours of Calculated Vertical Derivative 2020-2021 Combined	Scale 1: 50,000

INTRODUCTION.

Between October 12th and 16th, 2020, and between March 24th-30th, 2021, Peter E. Walcott & Associates Limited undertook a heli-borne magnetic surveying over parts of the Max mineral property, for Thompson Creek Metals Co Inc.

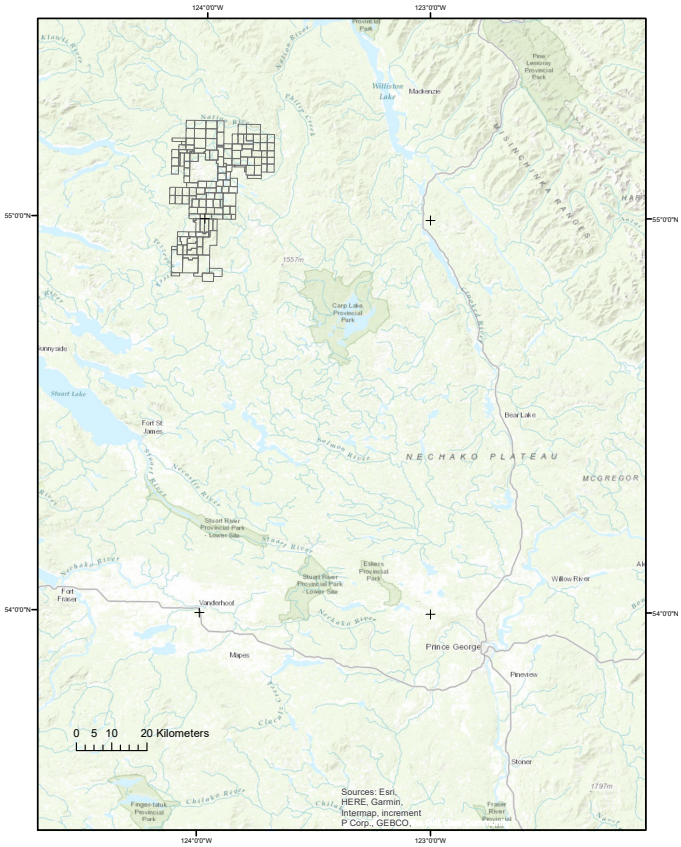
The surveys consisted of some 963 and 1546-line kilometers for each of the respective programs of airborne magnetics. The surveys were flown on east-west orientated lines flight lines with a nominal line spacing of 100 meters, with orthogonal tie lines with a nominal line spacing of 1000 meters.

PROPERTY LOCATION AND ACCESS

The Max-K2 property is in the Omineca Mining Division of British Columbia some 57 kilometres northeast of the settlement of Fort St. James. It consists of the following claims:

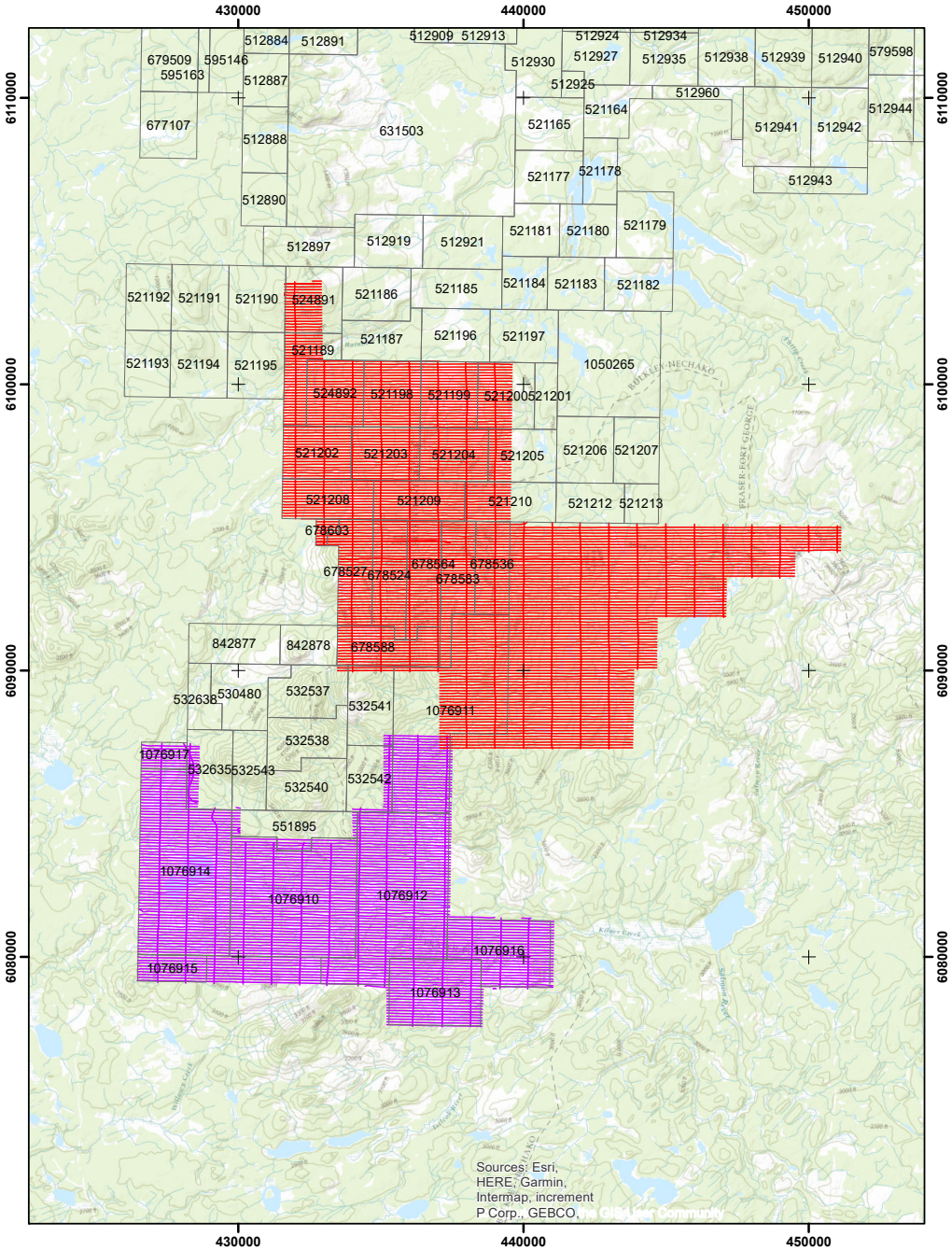
Access to the property is readily obtainable by active and old resource roads off the Rainbow forest service road, which is in turn accessed from the North Road.

Access to the grid was obtained from the Blue Stain camp, and Vanderhoof by helicopter for the respective programs carried out in the fall of 2020, and subsequent program in the spring 2021



Property Location Map

PROPERTY LOCATION AND ACCESS con't



Claim and Line Location Map
Purple 2020, Red 2021 Surveys

SURVEY SPECIFICATIONS.

The Airborne Magnetic Survey.

The airborne magnetic survey was conducted using a stinger type system mounted on an ASTAR helicopter operated by Silver King Helicopters Ltd of Smithers, British Columbia.

The stinger unit consists of three main components – C-824 Cesium Magnetometer manufactured by Geometrics San Jose, California, Bartington Mag-03 Fluxgate, and Optilogic RS-400 Laser Range Finder

The C-824 Cesium Magnetometer is an extremely sensitive magnetic sensor capable of providing sensitivity up to 0.01 nT and sampling rates up to 1000 Hz. On this survey a sampling rate of 50 Hz was employed.

The Mag-03 was connected to a Kana8 24-bit digitizer inside the helicopter, where the analog output from the X, Y, and Z components where digitized and synchronized to a GPS timing signal.

The respective digital outputs, were connected to a logging computer where the respective input was synchronized to an NTP time server, utilizing a GPS timing signal.

Flight line navigation data and helicopter height data was obtained using Hemisphere R330 GNSS receiver and Optilogic RS400 later range finder with a 10 Hz update rate.

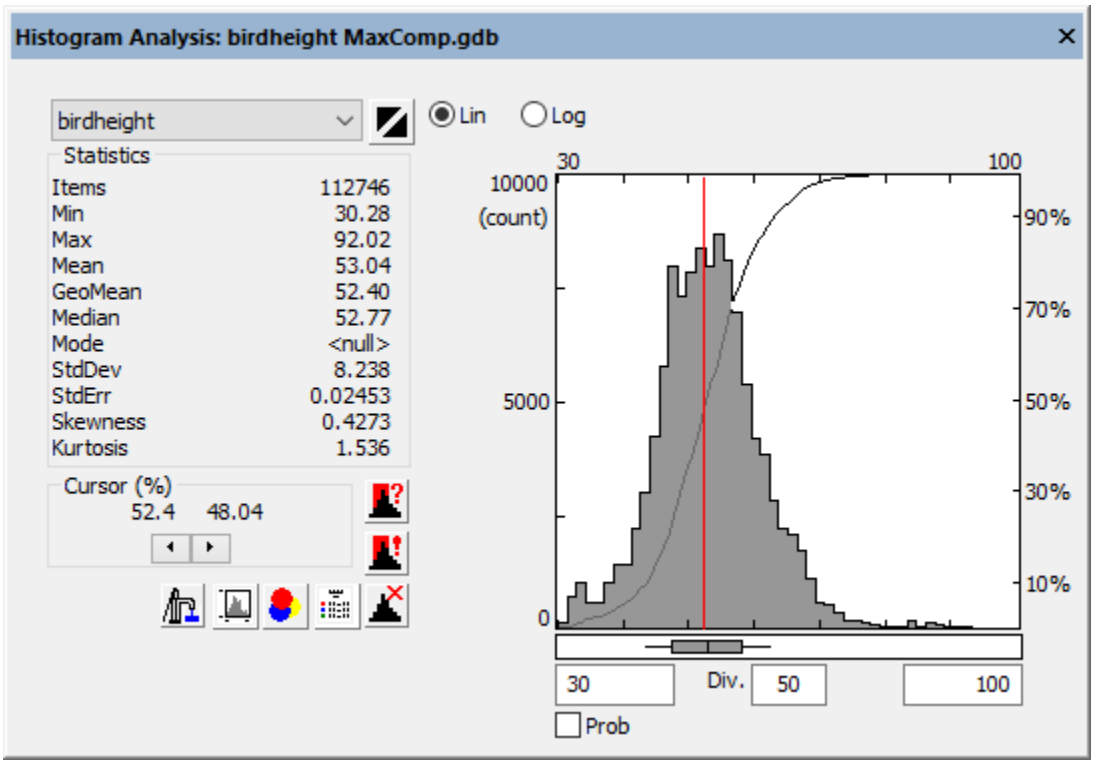
Data logging and navigation were carried out utilizing Picoenviotech ANAV software on a Panasonic CF-19 Toughbook computer with a secondary 7" daylight viewable pilot navigation monitor.

In addition to the airborne unit the survey also utilized two GSM 19 overhauser magnetometer manufactured by GEM Instruments of Richmond Hill, Ontario as base magnetometers. These instruments measure variations in the total intensity of the earth's magnetic field to an accuracy of plus or minus one nanotesla.

SURVEY SPECIFICATIONS cont'd

The surveys were carried out with a mean bird height of some 52 meters.

Survey Area	# of Lines	# of Tie Lines	Total Distance
Max South	137	16	963 km
Max North - 2021	166	20	1546 km



DATA PROCESSING AND PRESENTATION.

The data was first exported from MagLogPro, where the various sensor inputs were merged into Geosoft compatible ascii files. This merged dataset was then loaded into Geosoft Oasis Montaj for data reduction and processing.

The data was first corrected for diurnal magnetic drift, utilizing the magnetic base stations. The data was then lag corrected to account for positioning errors due to instrument delay and other positional errors. Tie line levelling was then undertaken prior to gridding.

Gridding was then undertaken on the levelled line data utilizing Geosoft's Bigrid algorithm using a 12.5 meter cell size.

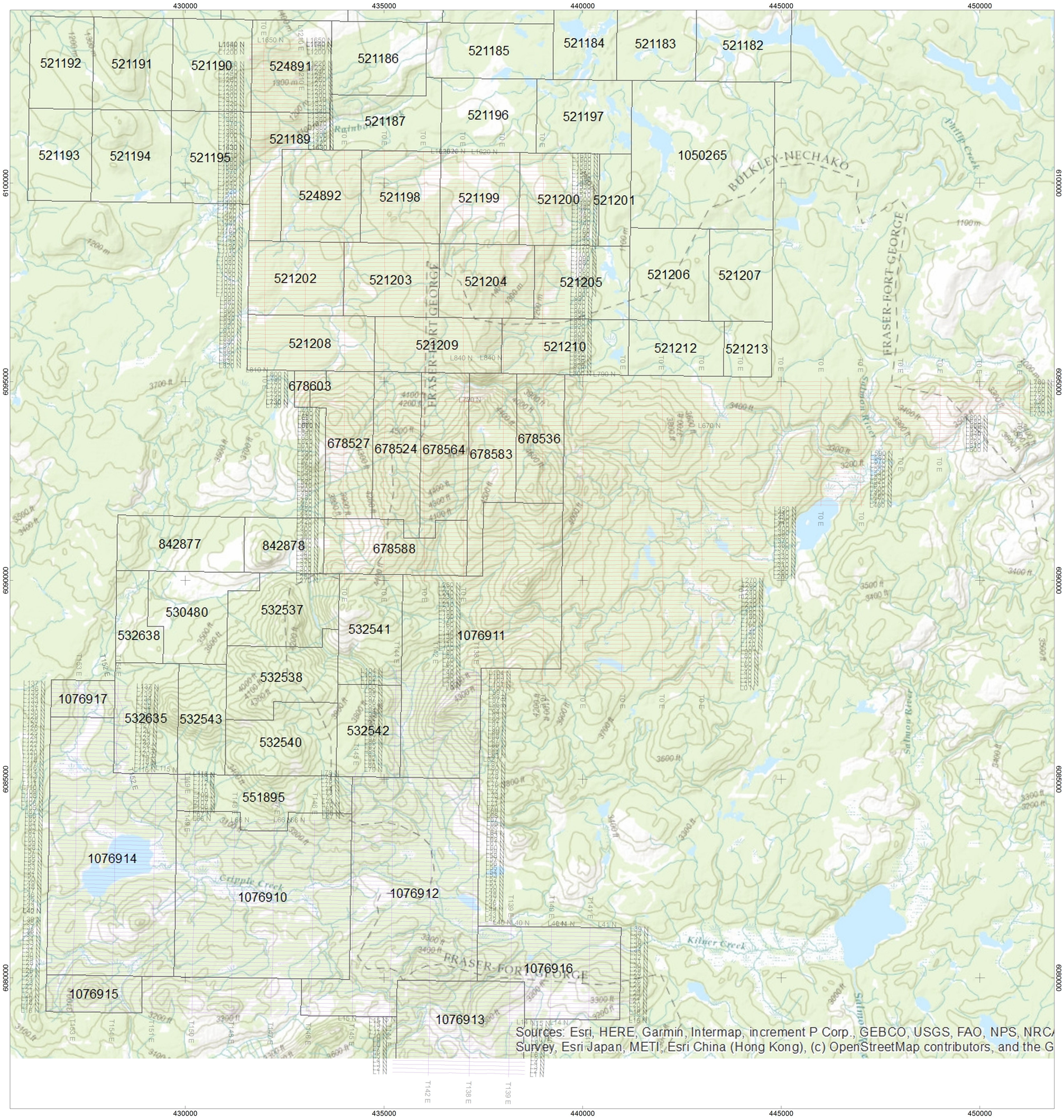
The reduced and leveled data set was then subject to several filtering techniques using the Geosoft MagMap module for evaluation and presentation.

The magnetic data for each of the respective blocks presented in this report is Contours of Total Magnetic Intensity, and Contours Calculated First Vertical Derivative.

APPENDIX I

PERSONNEL EMPLOYED.

Name	Occupation	Address	Dates
Alex Walcott	Geophysicist	Unit 111- 17 Fawcett Rd. Coquitlam, B.C. V3K 6V2	
Tom Kocan	Geophysical Operator		March 25th-29th, 2021
Matt Magee	“		“
Brent Doram	“		October 13th-15th, 2020
Pierre Bernier	Pilot	Silver King Helicopters	October 13th-15th, 2020
Chad Goddyn	:	“	March 25th-29th, 2021



Scale 1:50000

1000 0 1000 2000 3000

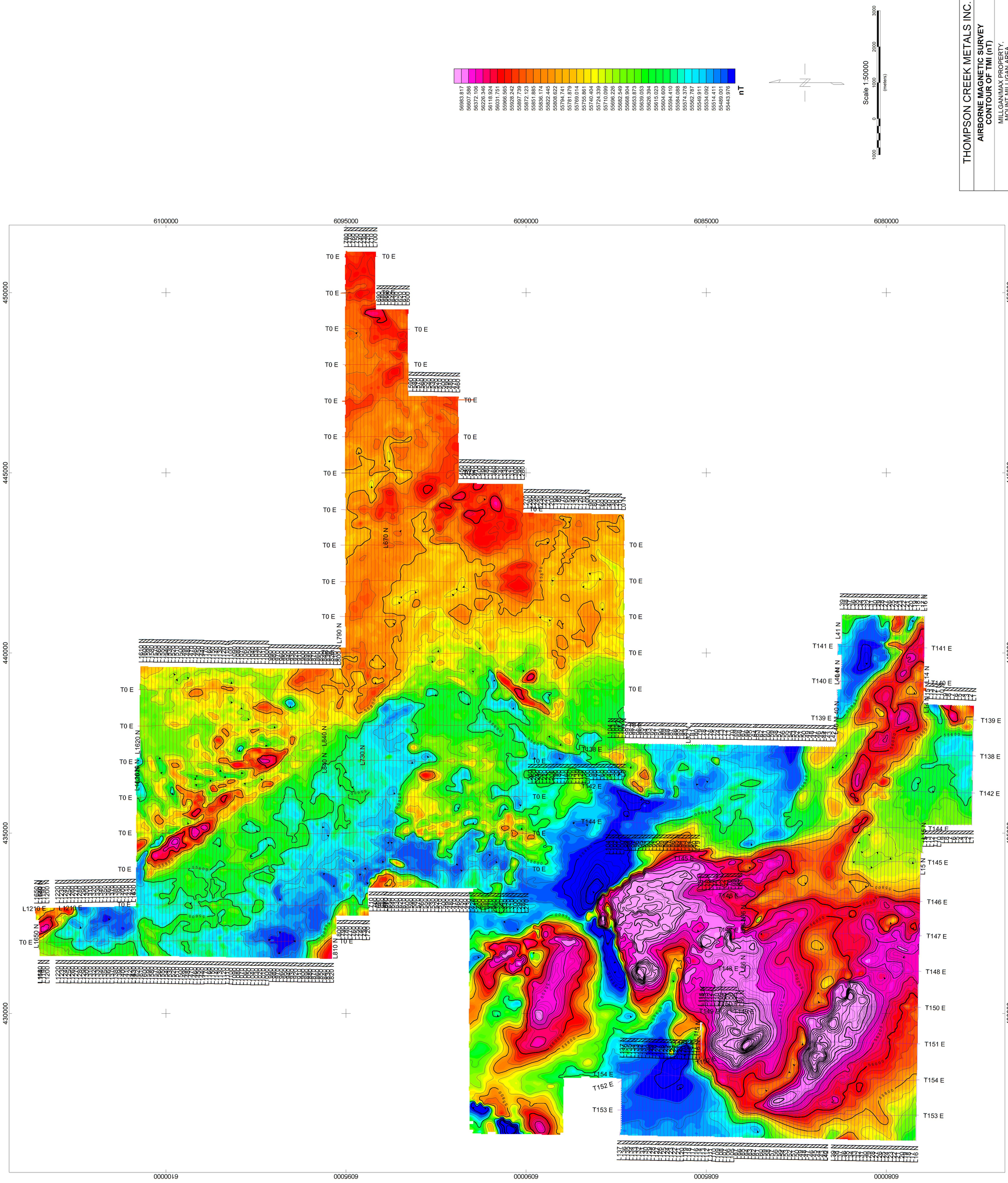
(meters)

THOMPSON CREEK METALS INC.

AIRBORNE MAGNETIC SURVEY
CLAIM AND LINE LOCATION MAP

MILLGAN/MAX PROPERTY,
MOUNT MILLIGAN AREA,
BRITISH COLUMBIA
FALL 2020/SPRING 2021

PETER E. WALCOTT & ASSOCIATES LIMITED

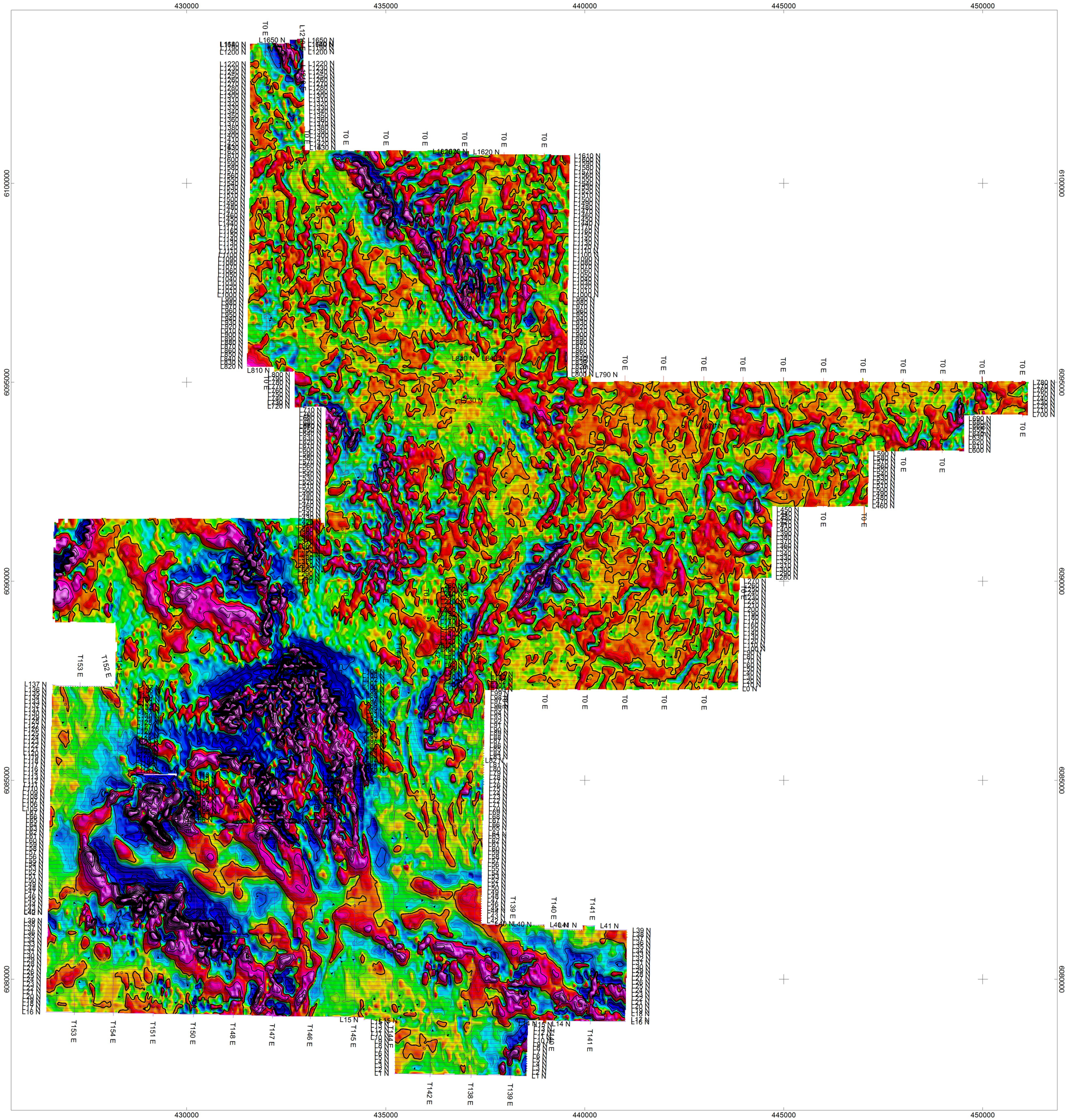


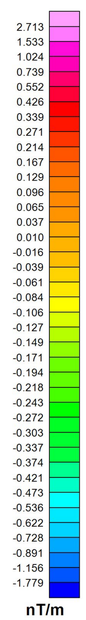
THOMPSON CREEK METALS INC.

AIRBORNE MAGNETIC SURVEY
CONTOUR OF TMI (nT)

MILLGAN/MAX PROPERTY,
MOUNT MILLIGAN AREA,
BRITISH COLUMBIA
FALL 2020/SPRING 2021

PETER E. WALCOTT & ASSOCIATES LIMITED





Scale 1:50000

1000 0 1000 2000 3000

(meters)

THOMPSON CREEK METALS INC.

AIRBORNE MAGNETIC SURVEY
CONTOUR OF 1VD OF TMI (nT/m)

MILLGAN/MAX PROPERTY,
MOUNT MILLIGAN AREA,
BRITISH COLUMBIA
FALL 2020/SPRING 2021

PETER E. WALCOTT & ASSOCIATES LIMITED

Appendix H

Assay Certificates

BUREAU VERITAS
MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 17, 2020
Analysis Start:	July 03, 2020
Report Date:	July 16, 2020
Page:	1 of 10

CERTIFICATE OF ANALYSIS VAN20001118.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_01
P.O. Number	M22165
Number of Samples:	267

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	244	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	8	Split samples by riffle splitter			VAN
PUL85	8	Pulverize to 85% passing 200 mesh			VAN
SLBHP	14	Sort, label and box pulps			VAN
FA430	266	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	266	Environmental disposal charge-Fire assay lead waste			VAN
MA200	266	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	266	Environmental disposal fee - Multi-acid neutralization			VAN
MA404	2	4 Acid Digest AAS Finish for Cu VAN	0.5	Completed	VAN

ADDITIONAL COMMENTS

Sample 3346110 was contaminated by 3346108 during prep process and not suitable for analysis. Sample 3346108 analysed at no cost.

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List
Richard Beck

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS
MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3345851	Drill Core	1.58	0.007	0.4	157.3	4.6	108	0.2	13.1	37.5	1647	8.48	6	0.2	0.4	967	0.2	1.3	<0.1	374	6.23
3345852	Drill Core	2.97	0.006	0.6	164.4	5.7	99	0.3	12.6	37.0	1685	8.03	6	0.3	0.5	1198	0.2	1.4	<0.1	375	6.56
3345853	Drill Core	2.58	0.006	0.3	137.5	5.6	124	0.3	14.0	43.4	1916	10.10	6	0.2	0.4	969	0.2	1.0	<0.1	452	7.05
3345854	Drill Core	2.33	0.006	0.4	189.9	6.4	121	0.4	14.8	44.5	1798	9.31	7	0.2	0.4	958	0.2	1.3	<0.1	452	6.37
3345855	Core DUP		0.006	0.4	193.5	6.3	123	0.4	15.1	44.9	1820	9.33	7	0.2	0.4	957	0.2	1.3	<0.1	460	6.39
3345856	Drill Core	3.42	0.006	0.3	364.0	5.6	122	0.4	14.2	44.1	1747	9.67	6	0.2	0.5	986	0.2	1.7	<0.1	437	7.09
3345857	Drill Core	3.20	<0.005	0.2	314.7	5.6	104	0.4	14.2	42.5	1680	8.64	6	0.2	0.4	1123	0.2	2.0	<0.1	396	7.13
3345858	Drill Core	1.88	0.007	0.3	228.3	4.6	94	0.4	12.1	38.9	1499	7.99	5	0.2	0.4	1101	0.1	2.0	<0.1	344	6.37
3345859	Drill Core	2.08	<0.005	0.3	343.0	5.3	102	0.4	12.8	38.6	1596	8.08	8	0.3	0.5	852	0.2	1.4	<0.1	371	4.54
3345860	Rock Pulp	0.13	0.221	100.0	2800.5	21.8	81	0.4	65.2	15.7	569	4.43	18	5.4	20.0	325	<0.1	2.2	0.8	127	2.70
3345861	Drill Core	2.23	<0.005	0.3	253.1	6.9	106	0.4	12.8	39.4	1545	8.12	9	0.4	0.5	891	0.3	1.4	<0.1	350	4.33
3345862	Drill Core	3.12	<0.005	0.3	298.5	4.7	100	0.3	15.2	46.0	1734	9.23	5	0.2	0.4	1180	0.1	1.9	<0.1	440	7.08
3345863	Drill Core	3.95	<0.005	0.3	161.3	6.3	95	0.2	16.0	45.1	1636	9.36	7	0.3	0.4	1191	0.2	1.7	<0.1	464	7.08
3345864	Drill Core	3.11	0.006	0.9	69.7	12.5	80	0.1	17.8	38.2	1719	9.37	8	0.5	0.3	1260	0.2	2.4	<0.1	468	8.84
3345865	Drill Core	3.54	0.006	0.5	146.7	5.2	109	0.2	25.0	53.6	1714	11.39	8	0.3	0.4	749	0.1	2.4	<0.1	555	7.29
3345866	Drill Core	4.24	<0.005	0.2	77.9	4.5	99	0.1	29.3	46.9	1660	10.23	7	0.2	0.3	1449	<0.1	2.5	<0.1	527	8.67
3345867	Drill Core	2.51	<0.005	0.2	90.0	2.8	116	0.1	31.5	49.1	1665	10.71	5	0.4	0.7	304	<0.1	0.8	<0.1	526	5.66
3345868	Drill Core	3.66	<0.005	0.3	139.0	3.7	104	0.2	23.1	56.5	1830	12.39	6	0.2	0.4	582	<0.1	1.5	<0.1	617	8.17
3345869	Drill Core	4.85	0.007	0.8	165.2	4.1	135	0.2	33.7	55.8	1934	11.66	6	0.2	0.4	542	0.1	0.9	<0.1	574	8.09
3345870	Rock	1.34	<0.005	<0.1	0.7	0.7	2	<0.1	<0.1	0.6	140	0.10	<1	<0.1	<0.1	76	<0.1	<0.1	<0.1	1	33.45
3345871	Drill Core	4.31	0.005	0.3	122.5	7.7	114	0.1	24.4	45.7	1952	10.25	7	0.3	0.3	682	0.1	1.4	<0.1	549	8.82
3345872	Drill Core	4.64	<0.005	0.3	348.2	6.4	104	0.4	23.8	50.5	1872	10.10	6	0.2	0.3	787	0.1	1.1	<0.1	540	9.14
3345873	Drill Core	4.76	<0.005	0.3	102.5	4.7	85	0.1	15.0	42.8	1695	8.45	6	0.1	0.4	1097	<0.1	1.4	<0.1	451	8.14
3345874	Drill Core	4.30	0.006	0.5	182.6	5.5	89	0.2	11.6	34.3	1604	7.58	6	0.3	0.6	1053	<0.1	1.2	<0.1	360	6.47
3345875	Drill Core	3.72	<0.005	0.3	160.6	4.1	91	0.2	12.6	37.3	1525	7.83	7	0.2	0.4	944	<0.1	1.2	<0.1	383	6.72
3345876	Drill Core	5.69	<0.005	0.2	259.2	5.4	103	0.3	23.8	51.8	1691	10.46	7	0.1	0.3	807	0.1	1.4	<0.1	529	8.95
3345877	Drill Core	5.11	<0.005	0.3	63.4	4.3	97	<0.1	47.5	57.4	1942	12.69	7	0.2	0.4	495	0.1	2.9	<0.1	619	10.48
3345878	Drill Core	6.25	<0.005	0.5	70.6	4.9	98	0.1	42.0	55.9	1807	11.54	6	0.2	0.4	602	0.1	2.1	<0.1	548	9.64
3345879	Drill Core	4.77	<0.005	0.4	35.4	4.6	108	<0.1	38.0	53.4	1974	11.12	6	0.3	0.4	546	<0.1	2.0	<0.1	534	9.52
3345880	Rock Pulp	0.13	0.212	96.2	2741.1	20.5	78	0.4	61.3	15.1	558	4.33	17	4.6	17.4	308	<0.1	2.1	0.7	125	2.61

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3345851	Drill Core	0.248	7.8	9	2.78	1024	0.542	8.34	2.257	1.55	0.2	15.8	17	0.5	15.9	2.1	0.1	<1	23	26.4	<0.1
3345852	Drill Core	0.220	6.7	8	2.53	852	0.558	8.28	2.415	1.53	0.3	16.7	15	0.5	14.0	2.3	0.1	<1	20	24.1	<0.1
3345853	Drill Core	0.199	7.4	9	2.86	766	0.623	7.99	1.709	1.62	0.2	18.0	16	0.6	15.8	1.6	0.1	<1	29	22.2	<0.1
3345854	Drill Core	0.177	6.7	8	2.80	841	0.637	8.59	1.852	1.79	0.3	16.4	14	0.6	13.8	2.2	0.1	<1	26	33.4	<0.1
3345855	Core DUP	0.178	5.6	8	2.79	812	0.629	8.11	1.854	1.76	0.3	16.8	13	0.6	13.5	2.2	0.1	<1	26	33.7	<0.1
3345856	Drill Core	0.306	9.8	8	3.06	848	0.636	9.09	1.777	1.84	0.2	15.9	20	0.6	16.8	2.0	0.1	<1	27	27.9	<0.1
3345857	Drill Core	0.251	7.7	8	3.08	603	0.544	8.02	1.769	1.46	0.3	15.6	16	0.5	14.5	1.8	0.1	<1	24	26.0	<0.1
3345858	Drill Core	0.202	5.9	7	2.53	735	0.535	7.91	1.902	1.92	0.2	17.4	13	0.5	11.9	2.3	0.1	<1	19	24.0	<0.1
3345859	Drill Core	0.206	6.2	8	2.47	763	0.502	8.31	2.035	2.69	0.3	17.4	14	0.5	12.6	2.1	0.1	<1	22	31.3	<0.1
3345860	Rock Pulp	0.102	36.4	92	1.55	1053	0.498	7.99	2.227	3.59	3.7	75.2	74	3.2	24.9	18.2	1.3	3	14	35.7	0.3
3345861	Drill Core	0.187	6.8	11	2.58	921	0.488	8.53	1.903	3.11	0.4	16.6	14	0.5	12.9	2.3	0.1	1	24	34.3	<0.1
3345862	Drill Core	0.109	4.9	11	3.50	465	0.552	7.47	1.597	1.27	0.5	18.5	11	0.6	13.0	2.0	0.1	<1	30	26.3	<0.1
3345863	Drill Core	0.113	5.1	10	3.30	561	0.587	7.83	1.814	1.27	0.7	16.7	11	0.6	12.5	2.1	0.1	<1	29	26.9	<0.1
3345864	Drill Core	0.091	4.9	5	3.09	400	0.555	8.20	0.837	1.20	0.9	14.2	11	0.6	11.2	1.8	<0.1	1	29	21.5	<0.1
3345865	Drill Core	0.119	5.0	7	4.28	475	0.667	6.71	1.227	1.44	0.9	19.1	12	0.7	13.6	1.7	0.1	<1	44	27.9	<0.1
3345866	Drill Core	0.088	4.3	9	4.12	480	0.614	7.25	1.401	1.16	0.5	18.9	10	0.6	12.2	1.4	<0.1	<1	43	25.1	<0.1
3345867	Drill Core	0.147	6.3	30	4.37	915	0.647	6.37	1.526	2.45	0.5	20.7	14	0.7	13.4	1.9	0.1	1	44	36.3	<0.1
3345868	Drill Core	0.096	4.5	13	4.58	530	0.733	6.53	1.156	1.33	0.5	20.4	11	0.7	14.2	1.5	<0.1	<1	46	27.4	<0.1
3345869	Drill Core	0.111	4.6	27	4.96	506	0.718	6.39	1.134	1.28	0.8	20.8	11	0.7	14.3	1.4	<0.1	<1	48	32.9	<0.1
3345870	Rock	0.007	1.0	2	2.08	11	0.006	0.05	0.029	0.02	<0.1	1.2	<1	<0.1	1.9	<0.1	<0.1	<1	<1	1.1	<0.1
3345871	Drill Core	0.134	4.9	12	4.12	590	0.648	6.68	1.112	1.57	0.5	18.4	11	0.6	14.0	1.1	<0.1	1	41	23.9	0.2
3345872	Drill Core	0.156	5.6	11	4.40	447	0.638	7.12	1.142	1.26	0.3	19.5	13	0.6	15.4	1.1	<0.1	<1	42	28.8	<0.1
3345873	Drill Core	0.194	7.5	7	3.52	501	0.583	8.34	1.992	1.18	0.3	14.1	15	0.4	14.0	0.9	<0.1	<1	28	27.8	<0.1
3345874	Drill Core	0.174	8.4	7	2.83	800	0.518	8.01	2.765	1.43	0.3	19.8	17	0.5	14.1	2.2	0.1	<1	23	25.7	<0.1
3345875	Drill Core	0.180	7.4	6	2.97	733	0.505	7.66	1.925	1.84	0.2	17.3	15	0.5	12.8	1.5	<0.1	<1	23	32.0	<0.1
3345876	Drill Core	0.135	4.9	14	4.36	486	0.630	7.25	0.854	1.37	0.3	18.2	11	0.6	12.9	1.1	<0.1	<1	40	30.9	<0.1
3345877	Drill Core	0.074	3.8	25	5.76	247	0.689	4.29	0.748	0.70	0.6	25.5	10	0.8	14.6	1.4	<0.1	<1	64	21.3	<0.1
3345878	Drill Core	0.068	3.6	14	5.30	323	0.629	5.25	0.899	1.13	1.0	23.1	9	0.8	13.6	1.3	<0.1	<1	58	26.7	0.2
3345879	Drill Core	0.050	3.3	14	5.00	408	0.623	5.54	0.861	1.40	0.5	22.9	8	0.7	13.5	1.3	<0.1	<1	54	27.3	0.3
3345880	Rock Pulp	0.098	33.0	86	1.49	1014	0.487	7.34	2.182	3.23	4.7	70.4	66	3.0	23.1	17.2	1.2	3	13	33.0	0.3

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3345851	Drill Core	28.3	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345852	Drill Core	21.9	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345853	Drill Core	47.6	0.7	0.05	<0.005	<1	<0.5	<0.5	
3345854	Drill Core	54.1	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345855	Core DUP	38.7	0.7	0.05	<0.005	<1	<0.5	<0.5	
3345856	Drill Core	56.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345857	Drill Core	30.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345858	Drill Core	27.0	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3345859	Drill Core	68.6	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3345860	Rock Pulp	207.9	2.3	0.07	<0.005	2	<0.5	1.0	
3345861	Drill Core	96.7	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345862	Drill Core	29.4	0.7	0.05	<0.005	<1	<0.5	<0.5	
3345863	Drill Core	22.1	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345864	Drill Core	27.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345865	Drill Core	43.7	0.9	0.06	<0.005	<1	<0.5	<0.5	
3345866	Drill Core	29.8	0.8	0.05	<0.005	<1	<0.5	<0.5	
3345867	Drill Core	84.8	0.9	0.05	<0.005	<1	<0.5	<0.5	
3345868	Drill Core	36.6	0.9	0.06	<0.005	<1	<0.5	<0.5	
3345869	Drill Core	34.9	0.9	0.06	<0.005	<1	<0.5	<0.5	
3345870	Rock	0.2	<0.1	<0.05	<0.005	1	<0.5	<0.5	
3345871	Drill Core	35.2	0.8	0.06	<0.005	<1	<0.5	<0.5	
3345872	Drill Core	37.5	0.9	0.06	<0.005	<1	<0.5	<0.5	
3345873	Drill Core	29.5	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3345874	Drill Core	35.5	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345875	Drill Core	52.9	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3345876	Drill Core	37.9	0.8	0.05	<0.005	<1	<0.5	<0.5	
3345877	Drill Core	17.4	1.1	0.07	<0.005	<1	<0.5	<0.5	
3345878	Drill Core	33.6	1.0	0.07	<0.005	<1	<0.5	<0.5	
3345879	Drill Core	39.7	1.0	0.06	<0.005	<1	<0.5	<0.5	
3345880	Rock Pulp	198.1	2.2	0.06	<0.005	2	<0.5	0.9	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3345881	Drill Core	1.96	0.025	0.3	44.0	3.9	86	<0.1	37.2	46.6	1931	10.60	7	0.2	0.4	250	<0.1	1.9	<0.1	501	11.53
3345882	Drill Core	3.28	<0.005	0.2	14.2	2.8	108	<0.1	48.7	51.9	2171	12.72	5	0.2	0.3	232	<0.1	1.6	<0.1	612	10.06
3345883	Drill Core	3.83	0.007	0.3	30.8	4.9	119	<0.1	48.3	58.7	2060	12.55	7	0.2	0.3	319	<0.1	1.9	<0.1	581	8.91
3345884	Drill Core	4.44	<0.005	0.2	28.9	4.1	111	<0.1	52.5	58.7	2087	12.77	6	0.2	0.3	385	<0.1	1.9	<0.1	581	9.89
3345885	Drill Core	4.41	<0.005	0.4	64.0	4.2	131	0.1	49.4	66.3	2276	13.31	7	0.3	0.5	325	<0.1	1.7	<0.1	622	10.24
3345886	Drill Core	3.08	<0.005	0.3	151.6	3.4	128	0.3	35.7	66.0	2203	12.36	6	0.3	0.5	465	<0.1	1.6	<0.1	626	10.14
3345887	Drill Core	4.24	<0.005	0.2	247.4	6.5	119	0.4	19.2	55.8	1814	9.71	10	<0.1	0.2	950	0.1	1.6	<0.1	540	8.11
3345888	Drill Core	4.20	0.014	1.8	378.0	16.0	118	0.5	21.3	57.2	1939	9.71	12	0.8	0.3	570	0.3	1.4	0.2	546	9.73
3345889	Drill Core	4.37	0.007	0.4	376.9	11.8	133	0.4	23.6	56.3	2099	10.15	7	0.7	0.3	607	0.2	0.9	0.1	618	10.15
3345890	Rock	1.39	<0.005	<0.1	1.7	0.4	3	<0.1	1.2	0.4	147	0.12	<1	0.1	<0.1	83	<0.1	<0.1	<0.1	2	33.38
3345891	Drill Core	5.03	<0.005	0.4	550.9	4.5	125	0.6	20.7	58.6	2040	11.28	7	0.2	0.3	791	0.2	1.0	<0.1	611	9.30
3345892	Drill Core	3.67	<0.005	0.4	340.7	3.4	128	0.3	23.4	62.9	2209	12.94	7	0.2	0.4	692	<0.1	1.4	<0.1	647	9.70
3345893	Drill Core	3.16	0.007	0.5	445.4	5.0	123	0.5	19.7	55.2	1813	11.11	9	0.2	0.4	786	0.2	1.4	<0.1	541	8.75
3345894	Drill Core	3.41	0.011	0.6	801.4	10.5	171	1.1	25.3	73.5	2752	15.11	9	0.5	0.4	307	0.2	1.2	<0.1	736	10.01
3345895	Core DUP		0.010	0.6	819.1	10.6	182	1.1	26.5	75.0	2786	15.48	12	0.5	0.4	294	0.4	1.3	<0.1	757	10.26
3345896	Drill Core	3.89	<0.005	0.4	197.2	8.1	120	0.3	14.0	53.3	1857	10.46	11	0.2	0.3	1006	0.1	1.5	<0.1	501	8.87
3345897	Drill Core	4.61	0.006	0.3	445.5	13.1	120	0.5	14.4	48.6	1673	8.99	9	0.2	0.3	1032	0.2	1.7	<0.1	401	8.89
3345898	Drill Core	4.66	0.007	0.2	223.3	10.0	129	0.3	13.4	51.6	1772	10.13	10	0.2	0.3	820	0.1	1.3	<0.1	486	8.64
3345899	Drill Core	4.73	<0.005	0.5	208.7	6.8	125	0.3	18.6	60.5	1878	11.88	9	0.2	0.4	843	0.2	2.3	<0.1	596	9.28
3345900	Rock Pulp	0.11	0.317	10.8	2278.4	6.9	53	0.6	11.8	14.8	652	5.47	17	1.3	1.8	521	0.2	0.8	0.1	224	2.77
3345901	Drill Core	4.58	0.006	0.4	221.8	7.2	114	0.3	15.8	52.4	1731	9.91	10	0.3	0.3	772	0.2	1.2	<0.1	482	8.46
3345902	Drill Core	4.32	0.007	0.3	315.4	4.8	105	0.5	15.1	47.0	1676	8.74	8	0.5	0.3	831	0.1	1.6	<0.1	420	8.55
3345903	Drill Core	4.58	0.009	0.7	369.3	4.6	114	0.5	19.0	48.9	1744	8.13	8	0.2	0.3	599	0.1	2.4	<0.1	378	9.37
3345904	Drill Core	4.96	0.006	1.0	203.8	4.1	134	0.3	25.7	63.5	1944	13.06	9	0.1	0.3	603	0.1	2.2	<0.1	642	8.90
3345905	Drill Core	2.95	0.005	0.2	450.5	3.8	104	0.6	19.6	57.2	1603	9.74	9	0.2	0.2	810	0.1	2.0	<0.1	472	8.65
3345906	Drill Core	4.35	0.007	0.5	377.7	3.2	109	0.5	19.2	52.4	1642	10.26	10	0.1	0.3	562	0.2	2.1	<0.1	520	8.19
3345907	Drill Core	2.38	0.012	0.6	460.9	3.3	98	0.7	17.6	47.2	1589	8.70	12	0.1	0.2	360	0.1	1.9	<0.1	437	9.11
3345908	Drill Core	2.73	0.007	0.2	234.8	5.4	105	0.4	21.0	46.1	1739	9.08	16	0.1	0.2	636	0.2	2.2	<0.1	455	8.72
3345909	Drill Core	3.57	0.011	0.5	84.2	7.5	151	0.2	30.7	72.3	2333	14.11	16	0.2	0.4	269	0.4	1.7	<0.1	753	10.48
3345910	Rock	1.34	<0.005	<0.1	1.5	0.4	3	<0.1	0.6	0.4	115	0.11	<1	0.2	<0.1	78	<0.1	0.1	<0.1	2	34.66

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3345881	Drill Core	0.033	2.9	12	4.59	168	0.567	3.57	0.862	0.96	2.9	19.6	7	0.6	12.7	1.2	<0.1	1	56	14.7	0.2
3345882	Drill Core	0.024	2.5	16	5.98	127	0.715	3.43	0.677	0.53	0.6	22.7	7	0.7	14.1	1.0	<0.1	<1	67	18.7	<0.1
3345883	Drill Core	0.069	3.5	19	5.54	241	0.692	4.53	0.752	1.20	1.5	19.3	9	0.8	14.8	1.1	<0.1	1	63	24.8	<0.1
3345884	Drill Core	0.051	3.1	12	5.81	238	0.691	4.40	0.740	0.73	0.4	22.3	8	0.8	14.6	1.1	<0.1	<1	66	22.7	<0.1
3345885	Drill Core	0.054	3.8	18	6.35	199	0.773	3.80	0.833	0.39	0.4	26.7	10	1.0	18.4	1.5	0.1	<1	79	23.0	<0.1
3345886	Drill Core	0.063	4.0	24	5.58	305	0.717	4.63	0.883	0.70	0.3	23.9	10	0.9	18.6	1.4	<0.1	<1	63	24.5	<0.1
3345887	Drill Core	0.151	4.6	8	4.04	352	0.564	8.37	1.531	1.34	0.5	11.4	11	0.6	14.5	0.8	<0.1	<1	34	37.6	<0.1
3345888	Drill Core	0.088	3.8	20	4.21	356	0.573	6.84	1.361	1.63	0.5	13.5	9	0.8	13.4	2.0	<0.1	2	37	35.7	1.0
3345889	Drill Core	0.057	3.8	30	4.25	324	0.608	6.95	1.304	1.52	0.3	16.5	8	0.7	15.1	1.8	<0.1	3	41	43.6	0.7
3345890	Rock	0.006	1.5	1	2.37	13	0.007	0.07	0.027	0.01	<0.1	1.4	<1	<0.1	2.4	0.1	<0.1	<1	<1	1.3	<0.1
3345891	Drill Core	0.052	3.4	28	4.32	324	0.640	7.33	1.052	1.23	0.2	16.9	8	0.6	14.0	0.9	<0.1	<1	38	32.7	0.2
3345892	Drill Core	0.063	3.8	14	4.77	320	0.725	6.43	0.915	0.97	0.2	20.8	9	0.7	16.7	1.2	<0.1	<1	46	24.8	<0.1
3345893	Drill Core	0.092	4.1	12	3.60	419	0.633	8.01	1.466	1.29	0.3	14.5	9	0.7	13.2	1.5	<0.1	<1	36	27.3	0.2
3345894	Drill Core	0.108	4.0	20	5.22	152	0.878	4.21	1.218	0.63	0.4	22.8	11	0.9	20.5	1.7	<0.1	1	57	30.3	0.8
3345895	Core DUP	0.105	4.0	19	5.20	143	0.903	4.07	1.158	0.60	0.4	22.5	10	0.8	20.0	1.8	<0.1	1	52	28.2	0.9
3345896	Drill Core	0.205	5.1	8	3.66	316	0.579	8.21	0.970	1.39	0.2	11.4	11	0.4	13.6	1.0	<0.1	<1	29	35.9	0.2
3345897	Drill Core	0.177	4.7	5	3.56	419	0.482	8.84	1.161	1.44	0.2	12.9	10	0.5	12.8	1.0	<0.1	<1	26	35.0	0.1
3345898	Drill Core	0.213	5.4	6	3.61	371	0.577	8.23	1.368	1.36	0.3	11.3	11	0.5	13.1	1.0	<0.1	1	27	41.7	0.3
3345899	Drill Core	0.105	4.0	8	3.98	265	0.668	6.92	1.221	0.81	0.3	18.0	10	0.7	14.8	1.3	<0.1	<1	37	23.0	0.2
3345900	Rock Pulp	0.118	9.9	22	1.20	1452	0.313	8.00	3.470	4.99	1.0	41.2	22	2.4	20.6	2.9	0.2	1	11	12.7	0.3
3345901	Drill Core	0.148	4.0	9	3.72	325	0.548	7.94	1.436	1.43	0.3	12.8	9	0.5	13.1	1.1	<0.1	<1	31	36.2	0.3
3345902	Drill Core	0.141	3.8	8	3.65	413	0.484	8.31	1.475	1.66	0.3	13.0	9	0.5	12.3	1.1	<0.1	1	28	31.9	0.2
3345903	Drill Core	0.094	3.3	19	3.88	309	0.441	7.82	1.700	1.31	0.9	10.1	8	0.4	11.9	0.8	<0.1	<1	29	42.0	0.2
3345904	Drill Core	0.104	3.7	20	4.21	297	0.698	6.91	0.876	1.22	0.5	14.6	8	0.7	13.9	1.2	<0.1	<1	36	27.9	0.1
3345905	Drill Core	0.079	3.3	13	3.88	318	0.546	7.58	0.915	1.43	0.3	13.0	7	0.5	12.5	0.8	<0.1	<1	33	25.7	0.1
3345906	Drill Core	0.109	3.7	9	3.65	312	0.573	8.01	1.333	1.82	0.5	9.6	9	0.5	11.6	1.0	<0.1	<1	33	38.2	<0.1
3345907	Drill Core	0.044	2.7	9	3.45	320	0.458	7.82	1.623	1.95	1.1	6.9	6	0.4	10.0	0.7	<0.1	<1	30	46.4	0.4
3345908	Drill Core	0.042	3.0	12	3.82	405	0.465	8.07	0.879	1.88	0.2	12.0	7	0.5	10.5	0.8	<0.1	<1	33	28.9	0.3
3345909	Drill Core	0.051	3.0	20	4.67	245	0.807	4.71	0.765	0.99	0.5	17.7	8	0.9	16.3	1.5	<0.1	<1	53	27.3	1.1
3345910	Rock	0.006	1.7	2	1.89	26	0.006	0.07	0.028	0.01	<0.1	1.2	1	<0.1	2.2	0.2	<0.1	<1	<1	1.0	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3345881	Drill Core	20.0	0.9	0.07	<0.005	<1	<0.5	<0.5	
3345882	Drill Core	13.5	1.0	0.07	<0.005	<1	<0.5	<0.5	
3345883	Drill Core	41.9	0.9	0.07	<0.005	<1	<0.5	<0.5	
3345884	Drill Core	18.2	1.0	0.07	<0.005	<1	<0.5	<0.5	
3345885	Drill Core	10.8	1.3	0.09	<0.005	<1	2.3	<0.5	
3345886	Drill Core	18.8	1.1	0.11	<0.005	<1	4.2	<0.5	
3345887	Drill Core	36.3	0.6	0.06	<0.005	<1	1.7	<0.5	
3345888	Drill Core	52.7	0.6	0.08	0.011	2	2.1	<0.5	
3345889	Drill Core	59.4	0.8	0.05	<0.005	1	1.8	<0.5	
3345890	Rock	0.4	<0.1	<0.05	<0.005	<1	4.7	<0.5	
3345891	Drill Core	44.2	0.8	0.07	<0.005	<1	1.0	<0.5	
3345892	Drill Core	31.8	0.9	<0.05	<0.005	<1	2.6	<0.5	
3345893	Drill Core	40.9	0.7	0.08	<0.005	<1	1.9	<0.5	
3345894	Drill Core	24.5	1.2	0.10	<0.005	2	2.7	<0.5	
3345895	Core DUP	22.8	1.1	0.12	<0.005	2	3.1	<0.5	
3345896	Drill Core	48.7	0.6	<0.05	<0.005	<1	1.2	<0.5	
3345897	Drill Core	47.8	0.6	0.07	<0.005	<1	0.9	<0.5	
3345898	Drill Core	45.2	0.5	<0.05	<0.005	<1	1.5	<0.5	
3345899	Drill Core	25.4	0.8	0.07	<0.005	<1	1.7	<0.5	
3345900	Rock Pulp	103.6	1.5	0.09	0.043	3	<0.5	<0.5	
3345901	Drill Core	53.9	0.5	0.05	<0.005	<1	2.0	<0.5	
3345902	Drill Core	52.3	0.6	<0.05	<0.005	<1	1.3	<0.5	
3345903	Drill Core	48.3	0.5	0.07	<0.005	<1	1.6	<0.5	
3345904	Drill Core	43.9	0.7	0.06	<0.005	<1	1.2	<0.5	
3345905	Drill Core	58.3	0.6	0.05	<0.005	<1	2.0	<0.5	
3345906	Drill Core	67.0	0.6	0.06	<0.005	<1	1.4	<0.5	
3345907	Drill Core	74.2	0.4	0.07	<0.005	<1	0.8	<0.5	
3345908	Drill Core	70.6	0.6	0.08	<0.005	<1	1.6	<0.5	
3345909	Drill Core	36.9	0.9	0.12	<0.005	<1	3.0	<0.5	
3345910	Rock	0.4	<0.1	<0.05	<0.005	<1	6.8	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3345911	Drill Core	2.55	0.022	0.3	181.4	51.5	180	0.8	20.7	57.3	1870	11.42	34	1.1	0.3	293	0.4	1.7	0.5	613	10.38
3345912	Drill Core	5.00	0.007	0.3	400.5	7.3	126	0.8	22.2	51.3	1670	10.23	15	0.1	0.3	708	0.3	2.0	<0.1	539	8.37
3345913	Drill Core	4.24	<0.005	0.3	204.6	7.7	122	0.4	25.1	56.5	1747	11.62	13	0.1	0.3	774	0.2	2.0	<0.1	621	9.60
3345914	Drill Core	5.59	<0.005	0.7	101.5	5.0	127	0.2	33.2	63.6	2101	12.58	14	0.3	0.5	429	0.2	2.6	<0.1	650	10.33
3345915	Drill Core	3.31	<0.005	0.4	179.9	3.4	138	0.3	32.9	68.4	2175	13.42	8	0.2	0.6	387	0.2	1.9	<0.1	698	10.31
3345916	Drill Core	3.93	<0.005	0.4	289.4	6.5	100	0.4	18.2	52.9	1657	10.57	12	0.1	0.3	912	0.2	2.9	<0.1	536	9.40
3345917	Drill Core	2.89	<0.005	0.4	519.4	6.4	111	0.7	16.2	48.5	1562	8.85	13	0.2	0.3	905	0.3	2.8	<0.1	457	8.46
3345918	Drill Core	3.20	0.010	1.6	432.8	15.1	115	0.8	15.6	47.6	1622	8.39	13	1.3	0.3	800	0.2	2.5	0.2	443	8.43
3345919	Drill Core	3.29	0.009	0.7	379.0	5.2	102	0.7	18.4	41.0	1555	7.82	11	0.8	0.3	716	0.2	2.7	<0.1	404	7.83
3345920	Rock Pulp	0.13	0.205	96.7	2695.8	24.0	87	0.3	65.8	17.0	550	4.33	17	6.4	21.0	311	0.3	2.3	0.8	125	2.58
3345921	Drill Core	4.43	0.014	0.8	287.5	12.5	105	0.6	21.2	52.6	1808	9.17	11	0.4	0.4	567	0.2	3.8	<0.1	492	10.04
3345922	Drill Core	5.09	0.015	1.1	100.1	9.3	136	0.3	18.9	45.5	1881	8.10	18	0.9	0.4	263	<0.1	3.1	<0.1	407	6.85
3345923	Drill Core	3.43	0.006	2.7	140.3	7.7	96	0.3	19.5	25.4	1587	5.21	7	1.5	2.2	391	<0.1	1.2	<0.1	217	5.35
3345924	Drill Core	4.36	0.010	0.8	120.9	12.3	100	0.3	4.2	18.2	1917	4.23	49	1.1	1.9	554	0.4	4.3	<0.1	193	3.97
3345925	Drill Core	3.91	0.005	1.1	125.1	13.5	93	0.4	4.3	18.4	2139	4.34	29	1.5	2.6	495	0.2	4.1	<0.1	220	5.01
3345926	Drill Core	3.44	0.014	1.8	121.9	17.2	85	0.4	4.4	18.2	2051	4.22	50	1.8	2.7	350	0.1	3.1	<0.1	215	4.95
3345927	Drill Core	3.63	0.039	3.1	116.9	22.2	185	0.4	21.0	51.7	1955	7.83	35	1.2	0.6	363	0.5	4.0	<0.1	395	8.44
3345928	Drill Core	4.77	0.033	0.4	75.2	13.3	141	0.4	19.3	52.1	1919	8.61	21	1.5	0.2	261	0.1	3.3	0.3	451	9.75
3345929	Drill Core	4.78	0.021	1.0	56.9	10.1	130	0.3	20.3	48.1	1974	8.60	19	1.0	0.7	270	<0.1	2.1	<0.1	453	7.56
3345930	Rock	1.34	<0.005	<0.1	1.7	1.1	4	<0.1	0.6	0.4	147	0.13	<1	0.1	0.1	85	<0.1	<0.1	<0.1	2	33.68
3345931	Drill Core	2.77	<0.005	1.0	47.2	7.1	115	0.1	21.9	46.0	1963	9.06	12	0.4	0.7	564	<0.1	3.4	<0.1	461	8.33
3345932	Drill Core	2.96	0.015	3.5	82.4	7.9	141	0.3	2.8	23.3	1622	5.56	14	1.8	2.7	419	0.2	2.8	<0.1	184	4.20
3345933	Drill Core	3.56	0.008	2.1	110.4	12.3	135	0.3	18.5	44.9	1914	9.27	24	0.4	0.5	880	0.2	7.1	<0.1	475	9.43
3345934	Drill Core	4.54	0.010	0.3	105.0	11.1	131	0.3	19.6	50.2	1736	10.00	22	0.3	0.5	541	0.2	4.3	<0.1	492	8.28
3345935	Core DUP		0.012	0.5	99.1	11.4	137	0.3	19.4	51.1	1763	10.05	22	0.3	0.5	535	0.2	4.4	<0.1	496	8.48
3345936	Drill Core	4.13	0.006	0.2	44.6	7.6	124	0.1	25.0	73.3	1616	10.98	17	0.2	0.2	549	<0.1	4.6	<0.1	528	8.10
3345937	Drill Core	5.07	0.009	0.3	64.1	9.2	89	0.1	23.5	55.4	1720	9.76	18	0.1	0.3	1361	<0.1	8.0	<0.1	535	10.44
3345938	Drill Core	5.20	0.037	2.0	98.8	10.7	135	0.4	20.8	64.4	1885	9.05	41	0.8	0.2	408	<0.1	4.1	<0.1	525	7.75
3345939	Drill Core	3.46	0.012	0.4	255.6	7.3	102	0.4	20.9	54.9	1835	10.66	17	0.2	0.3	833	0.1	5.7	<0.1	673	8.64
3345940	Rock Pulp	0.13	0.211	98.8	2780.3	24.4	83	0.4	61.7	16.0	565	4.36	17	6.1	22.1	311	0.2	2.2	0.8	128	2.64

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3345911	Drill Core	0.065	2.7	14	3.65	106	0.638	6.02	1.214	2.52	0.6	11.6	6	0.6	10.8	2.1	<0.1	3	33	39.5	2.0
3345912	Drill Core	0.084	3.6	16	3.90	414	0.557	7.89	0.697	1.74	0.4	11.9	8	0.5	11.6	0.8	<0.1	<1	34	38.4	0.2
3345913	Drill Core	0.096	3.5	10	3.87	342	0.680	7.31	0.631	1.20	0.3	12.8	8	0.6	11.7	1.1	<0.1	<1	36	23.9	<0.1
3345914	Drill Core	0.094	4.2	16	5.36	173	0.707	4.25	0.968	0.45	0.5	22.3	11	0.7	17.1	1.7	0.1	<1	57	18.6	0.1
3345915	Drill Core	0.031	3.1	20	5.63	116	0.758	3.76	0.924	0.35	0.2	23.4	8	0.7	16.4	1.6	0.1	<1	58	19.5	<0.1
3345916	Drill Core	0.076	3.2	17	4.05	287	0.597	7.63	0.689	1.17	0.2	13.3	8	0.5	11.9	0.9	<0.1	<1	36	31.8	0.1
3345917	Drill Core	0.070	3.4	6	3.68	488	0.498	7.71	0.751	2.28	0.2	13.5	8	0.5	10.5	1.6	<0.1	<1	28	41.0	0.2
3345918	Drill Core	0.069	3.3	8	3.70	556	0.471	8.23	0.833	2.93	0.3	10.4	7	0.5	10.0	1.7	<0.1	2	29	57.7	1.0
3345919	Drill Core	0.046	2.9	11	3.65	570	0.416	7.84	0.884	3.63	0.5	8.4	6	0.5	8.7	1.3	<0.1	2	27	67.5	0.8
3345920	Rock Pulp	0.093	37.3	85	1.47	1023	0.489	7.47	2.125	3.35	4.5	77.4	74	3.4	27.0	19.1	1.4	3	12	35.7	0.3
3345921	Drill Core	0.035	3.3	13	3.95	410	0.567	6.42	0.765	2.51	1.6	15.6	8	0.5	12.4	1.4	<0.1	<1	36	33.8	0.5
3345922	Drill Core	0.036	2.9	18	3.83	586	0.453	7.00	0.815	4.43	5.3	12.7	6	0.5	9.5	1.3	<0.1	<1	29	46.7	1.3
3345923	Drill Core	0.181	12.4	45	2.45	1063	0.349	7.38	1.929	4.80	0.8	30.5	24	0.6	13.4	5.4	0.3	1	18	51.3	0.5
3345924	Drill Core	0.164	9.6	2	1.58	338	0.328	7.16	1.428	4.34	0.8	26.6	22	0.7	13.2	6.3	0.4	1	8	41.9	0.8
3345925	Drill Core	0.178	12.5	3	1.33	243	0.334	7.73	1.430	5.18	0.9	34.8	27	0.8	15.2	7.6	0.4	3	9	36.1	1.1
3345926	Drill Core	0.174	12.6	3	1.17	179	0.311	7.74	0.912	5.62	1.5	52.2	26	0.8	14.4	7.3	0.4	2	9	34.0	1.9
3345927	Drill Core	0.061	4.5	32	4.16	457	0.421	6.83	1.176	4.09	2.1	10.7	9	0.5	9.8	2.6	<0.1	1	29	46.2	1.9
3345928	Drill Core	0.021	2.4	9	3.72	231	0.464	6.03	0.689	3.12	5.3	7.7	5	0.5	8.2	2.3	<0.1	3	31	45.7	2.9
3345929	Drill Core	0.047	4.1	9	3.75	551	0.519	6.81	0.801	4.43	0.7	12.9	8	0.4	10.5	2.4	<0.1	2	31	41.5	1.5
3345930	Rock	0.008	2.0	2	2.37	50	0.007	0.08	0.028	0.03	<0.1	1.8	1	0.2	2.5	0.2	<0.1	<1	<1	1.1	<0.1
3345931	Drill Core	0.035	4.1	10	4.20	576	0.547	7.47	0.972	2.76	0.5	17.1	9	0.6	12.9	1.7	0.1	<1	37	34.8	0.2
3345932	Drill Core	0.240	14.1	1	1.96	531	0.384	8.24	2.767	4.01	1.6	31.4	27	0.8	17.3	6.1	0.4	1	10	35.5	1.1
3345933	Drill Core	0.050	3.9	8	3.67	472	0.568	8.54	0.506	2.25	0.7	12.4	8	0.5	10.4	1.3	<0.1	<1	29	37.9	0.2
3345934	Drill Core	0.050	3.8	8	3.79	597	0.598	8.18	0.859	2.34	0.6	11.6	8	0.5	10.8	1.4	<0.1	<1	31	40.3	0.4
3345935	Core DUP	0.053	4.0	9	3.87	618	0.603	8.25	0.867	2.30	0.5	13.0	8	0.6	11.4	1.5	<0.1	<1	31	39.5	0.4
3345936	Drill Core	0.019	2.4	12	4.60	402	0.645	7.59	0.468	1.91	0.3	12.4	6	0.6	10.9	0.8	<0.1	<1	37	36.5	0.3
3345937	Drill Core	0.024	2.6	11	4.13	338	0.578	7.82	0.561	1.49	0.6	14.8	6	0.5	10.4	0.9	<0.1	<1	35	26.2	0.2
3345938	Drill Core	0.021	2.4	11	4.26	591	0.493	7.59	0.648	3.99	1.4	7.6	5	0.4	8.5	1.1	<0.1	<1	29	56.4	1.9
3345939	Drill Core	0.023	2.9	11	4.25	345	0.581	8.09	0.795	2.36	1.0	13.0	6	0.5	10.7	1.1	<0.1	<1	37	36.3	0.2
3345940	Rock Pulp	0.090	39.4	86	1.51	1093	0.495	7.35	2.201	3.03	4.8	73.1	78	3.6	27.5	18.3	1.4	3	14	33.7	0.3

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3345911	Drill Core	80.5	0.6	0.07	0.014	3	2.0	<0.5	
3345912	Drill Core	60.9	0.7	0.07	<0.005	<1	2.1	<0.5	
3345913	Drill Core	34.2	0.7	0.07	<0.005	<1	2.0	<0.5	
3345914	Drill Core	11.8	1.1	0.08	<0.005	<1	2.2	<0.5	
3345915	Drill Core	8.3	1.2	0.10	<0.005	<1	3.9	<0.5	
3345916	Drill Core	38.3	0.7	<0.05	<0.005	<1	0.9	<0.5	
3345917	Drill Core	64.7	0.7	0.06	<0.005	<1	1.7	<0.5	
3345918	Drill Core	109.3	0.5	<0.05	0.007	1	1.6	0.6	
3345919	Drill Core	128.3	0.4	<0.05	0.005	<1	1.6	0.8	
3345920	Rock Pulp	213.8	2.4	0.11	<0.005	3	0.6	1.0	
3345921	Drill Core	83.9	0.7	0.09	<0.005	<1	1.5	<0.5	
3345922	Drill Core	127.6	0.7	0.06	<0.005	2	1.6	0.7	
3345923	Drill Core	147.4	0.9	0.06	<0.005	<1	1.1	1.0	
3345924	Drill Core	84.6	0.7	<0.05	<0.005	<1	<0.5	0.6	
3345925	Drill Core	114.1	1.0	<0.05	<0.005	<1	<0.5	0.5	
3345926	Drill Core	141.5	1.3	<0.05	<0.005	1	<0.5	0.6	
3345927	Drill Core	167.8	0.5	0.05	<0.005	1	0.9	1.1	
3345928	Drill Core	107.1	0.4	<0.05	<0.005	2	1.4	0.8	
3345929	Drill Core	126.4	0.6	0.06	<0.005	1	1.8	0.8	
3345930	Rock	0.5	<0.1	<0.05	<0.005	<1	4.4	<0.5	
3345931	Drill Core	92.4	0.8	<0.05	<0.005	<1	1.0	<0.5	
3345932	Drill Core	121.3	0.9	<0.05	<0.005	<1	<0.5	0.7	
3345933	Drill Core	73.7	0.6	0.10	<0.005	<1	1.4	<0.5	
3345934	Drill Core	63.8	0.5	0.06	<0.005	<1	1.8	<0.5	
3345935	Core DUP	67.0	0.6	0.07	<0.005	<1	<0.5	<0.5	
3345936	Drill Core	55.4	0.6	<0.05	<0.005	<1	1.7	<0.5	
3345937	Drill Core	36.5	0.7	0.06	<0.005	<1	1.8	<0.5	
3345938	Drill Core	168.9	0.5	<0.05	<0.005	<1	1.7	1.0	
3345939	Drill Core	75.0	0.6	0.08	<0.005	<1	0.5	<0.5	
3345940	Rock Pulp	225.4	2.4	0.11	<0.005	2	0.6	1.0	

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3345941	Drill Core	1.54	0.007	0.2	158.8	2.8	127	0.3	19.3	47.8	1707	8.69	5	0.5	0.3	279	<0.1	1.9	<0.1	528	7.46
3345942	Drill Core	2.57	0.027	0.8	201.7	14.9	237	0.5	18.9	52.0	2319	8.82	15	1.2	0.2	282	<0.1	1.9	0.2	528	8.48
3345943	Drill Core	2.69	0.048	7.0	308.6	421.8	4715	2.5	15.4	40.1	2564	6.71	62	2.1	0.2	390	74.7	3.4	2.0	358	11.14
3345944	Drill Core	3.43	0.018	0.3	118.9	18.7	144	0.5	20.6	49.5	3529	9.10	63	1.4	0.2	337	<0.1	2.8	0.1	534	9.28
3345945	Drill Core	4.82	0.010	0.3	88.6	14.2	112	0.4	25.5	59.5	3383	10.48	52	0.4	0.2	309	<0.1	3.5	<0.1	656	8.51
3345946	Drill Core	5.13	0.019	0.8	44.1	16.7	73	0.4	21.6	50.6	2438	8.83	74	0.5	0.2	651	<0.1	6.6	<0.1	513	9.40
3345947	Drill Core	3.26	0.033	1.0	45.7	22.6	78	0.7	20.7	49.2	2982	8.58	143	0.7	0.2	231	<0.1	5.1	<0.1	490	6.92
3345948	Drill Core	3.49	0.027	0.4	29.7	9.7	95	0.2	23.7	60.6	1762	9.71	25	0.7	0.2	386	<0.1	3.3	<0.1	574	8.07
3345949	Drill Core	3.55	0.034	0.7	34.8	12.0	82	0.2	28.9	61.2	1693	9.43	36	0.6	0.3	764	<0.1	3.9	<0.1	528	9.93
3345950	Rock	1.40	<0.005	<0.1	1.1	0.9	5	<0.1	0.3	0.6	146	0.17	<1	0.1	<0.1	89	<0.1	<0.1	<0.1	3	31.31
3345951	Drill Core	3.12	0.011	2.1	26.8	6.7	87	<0.1	28.6	48.1	1613	9.42	10	0.3	0.2	435	<0.1	2.7	<0.1	566	8.39
3345952	Drill Core	4.30	<0.005	0.4	46.9	5.9	77	<0.1	28.8	47.3	1580	9.27	10	0.4	0.2	717	0.2	2.9	<0.1	517	9.41
3345953	Drill Core	4.47	0.006	0.4	17.6	7.0	72	<0.1	28.7	44.6	1357	8.69	17	0.1	0.3	879	0.3	3.3	<0.1	486	9.11
3345954	Drill Core	2.87	0.009	1.3	11.6	8.5	83	<0.1	37.7	52.9	1520	9.61	13	0.2	0.3	738	0.3	3.2	<0.1	530	9.12
3345955	Drill Core	2.99	<0.005	0.4	17.0	5.0	58	<0.1	38.3	48.2	1286	9.20	10	0.1	0.2	839	<0.1	3.4	<0.1	477	9.05
3345956	Drill Core	1.97	0.010	0.6	103.7	3.4	75	0.1	34.4	47.3	1626	8.59	8	0.4	0.7	425	<0.1	2.2	<0.1	398	9.03
3345957	Drill Core	4.07	0.010	5.1	151.9	5.0	78	0.2	143.9	46.6	1302	6.47	9	1.3	2.2	678	0.1	1.8	0.1	252	5.63
3345958	Drill Core	4.76	0.007	0.6	68.1	4.6	60	<0.1	59.9	49.0	1309	8.09	10	0.3	0.6	1091	<0.1	3.7	<0.1	387	7.60
3345959	Drill Core	4.59	<0.005	0.9	30.8	5.2	65	<0.1	40.7	49.1	1298	8.78	13	0.1	0.2	1216	0.1	4.2	<0.1	440	8.82
3345960	Rock Pulp	0.13	0.663	335.8	5163.9	21.1	76	1.3	34.6	17.6	543	4.76	61	4.4	15.6	351	0.7	3.5	1.6	117	2.53
3345961	Drill Core	4.63	0.014	10.1	74.7	6.2	83	0.2	38.0	42.5	1309	7.47	16	0.7	1.0	457	0.1	1.9	0.3	347	5.46
3345962	Drill Core	3.03	0.007	1.2	19.3	5.4	60	<0.1	37.1	43.4	1346	8.83	12	0.6	1.1	572	<0.1	2.3	<0.1	446	7.24
3345963	Drill Core	4.17	0.010	7.7	132.0	4.3	92	0.2	104.8	41.9	1341	7.52	11	1.0	1.9	314	<0.1	1.1	<0.1	270	5.69
3345964	Drill Core	4.28	0.006	0.6	99.6	4.0	102	0.1	101.4	46.9	1468	7.64	12	1.0	1.9	412	<0.1	1.8	<0.1	275	5.98
3345965	Drill Core	5.55	<0.005	0.8	20.6	3.6	100	<0.1	61.8	60.4	1782	11.89	9	0.3	0.3	399	<0.1	2.2	<0.1	606	9.81
3345966	Drill Core	5.32	<0.005	0.3	14.5	5.8	94	<0.1	60.1	56.0	1679	11.08	14	<0.1	0.2	489	0.2	3.1	<0.1	568	10.63
3345967	Drill Core	4.62	0.005	0.5	18.0	5.1	107	0.1	74.5	70.3	1799	12.45	10	<0.1	0.2	317	0.2	2.4	<0.1	613	10.78
3345968	Drill Core	4.84	<0.005	0.7	9.5	5.5	108	<0.1	63.1	64.0	1752	12.07	10	0.1	0.2	464	0.2	2.3	<0.1	617	10.98
3345969	Drill Core	5.39	0.005	0.8	23.4	3.9	107	<0.1	55.9	61.2	1622	11.45	8	0.4	0.2	354	0.2	1.4	<0.1	591	9.57
3345970	Rock	1.31	<0.005	<0.1	0.9	0.3	2	<0.1	<0.1	0.4	98	0.11	1	0.1	<0.1	76	<0.1	<0.1	<0.1	2	32.49

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3345941	Drill Core	0.017	2.4	12	4.33	489	0.444	7.57	0.799	3.82	1.5	8.8	5	0.4	8.7	1.0	<0.1	1	33	43.7	0.3
3345942	Drill Core	0.016	2.1	10	5.02	514	0.428	6.66	0.228	3.33	1.9	8.1	5	0.6	8.6	1.5	<0.1	2	30	46.6	2.2
3345943	Drill Core	0.016	2.6	8	2.25	69	0.296	6.03	0.196	3.62	2.5	5.6	5	0.6	6.3	2.5	<0.1	2	20	33.4	4.4
3345944	Drill Core	0.024	2.4	9	3.16	361	0.470	5.94	0.312	3.66	0.6	8.0	5	0.5	9.8	1.0	<0.1	2	31	41.2	2.4
3345945	Drill Core	0.014	2.1	11	3.65	507	0.574	6.27	0.626	3.11	0.6	7.0	5	0.5	9.0	0.9	<0.1	1	34	47.0	1.4
3345946	Drill Core	0.018	2.6	9	3.33	358	0.431	7.06	0.874	2.91	1.8	7.8	6	0.4	9.3	1.1	<0.1	<1	32	40.5	2.2
3345947	Drill Core	0.013	2.3	7	2.91	58	0.383	6.81	0.400	3.73	0.8	5.1	5	0.4	7.3	0.8	<0.1	1	28	47.7	4.6
3345948	Drill Core	0.014	2.5	9	4.54	596	0.487	7.57	0.576	3.06	1.0	10.6	5	0.5	9.9	1.0	<0.1	<1	37	49.0	1.1
3345949	Drill Core	0.021	2.3	6	4.44	335	0.488	7.09	0.556	1.63	1.1	12.0	5	0.6	8.8	1.1	<0.1	<1	34	35.2	1.4
3345950	Rock	0.008	1.1	2	4.10	12	0.008	0.09	0.031	0.03	<0.1	1.3	<1	0.2	2.0	0.1	<0.1	<1	<1	2.1	<0.1
3345951	Drill Core	0.017	2.2	9	4.29	492	0.493	7.75	0.512	2.45	0.7	9.5	5	0.4	9.0	0.7	<0.1	<1	41	50.9	0.4
3345952	Drill Core	0.017	2.3	8	4.44	285	0.461	8.63	0.684	1.70	0.5	10.9	5	0.5	8.7	0.7	<0.1	<1	39	36.5	0.2
3345953	Drill Core	0.022	2.8	10	3.91	300	0.464	8.67	0.733	1.59	0.7	11.2	6	0.5	8.5	0.9	<0.1	<1	38	32.9	0.3
3345954	Drill Core	0.020	2.5	11	4.56	289	0.488	7.78	0.843	1.45	0.9	11.0	5	0.7	8.6	0.8	<0.1	<1	44	32.4	0.5
3345955	Drill Core	0.016	1.9	10	4.20	236	0.444	7.56	0.518	1.43	0.5	12.2	5	0.5	7.9	0.9	<0.1	<1	40	31.2	<0.1
3345956	Drill Core	0.110	5.7	48	4.13	232	0.531	5.89	1.607	1.49	0.7	17.7	12	0.6	12.0	1.9	0.1	<1	42	42.7	<0.1
3345957	Drill Core	0.225	10.0	310	5.71	1277	0.349	6.36	0.929	3.19	0.8	28.0	19	0.6	11.7	3.6	0.2	2	22	58.2	0.2
3345958	Drill Core	0.054	3.5	72	4.58	342	0.408	7.02	0.836	1.39	0.5	15.6	7	0.4	8.7	1.3	<0.1	<1	33	34.5	<0.1
3345959	Drill Core	0.017	2.2	8	4.11	208	0.436	7.75	0.813	1.27	0.3	11.4	5	0.6	8.0	0.7	<0.1	<1	41	33.9	0.2
3345960	Rock Pulp	0.107	29.7	66	1.40	415	0.492	6.97	2.056	3.32	4.0	83.9	61	3.5	22.8	20.5	1.4	3	12	29.6	0.7
3345961	Drill Core	0.073	5.7	41	4.05	802	0.394	7.48	1.597	3.22	0.9	15.0	11	0.6	10.7	2.2	0.1	1	31	48.4	1.4
3345962	Drill Core	0.060	5.1	21	4.40	769	0.461	6.41	1.658	2.40	0.6	21.3	10	0.6	11.8	2.2	0.1	<1	49	21.1	0.5
3345963	Drill Core	0.180	8.9	259	5.26	1233	0.393	6.17	1.451	3.30	0.5	30.2	17	0.6	12.6	3.3	0.2	<1	32	44.7	0.1
3345964	Drill Core	0.178	8.6	261	5.45	1182	0.401	6.20	1.420	2.95	0.4	32.8	16	0.6	12.6	3.3	0.2	<1	34	49.8	<0.1
3345965	Drill Core	0.020	2.4	42	5.90	241	0.597	4.53	0.673	0.99	0.4	18.2	6	0.6	11.6	0.9	<0.1	<1	72	26.0	<0.1
3345966	Drill Core	0.014	1.7	74	6.06	133	0.563	4.35	0.445	0.47	0.3	15.6	5	0.5	10.3	0.6	<0.1	<1	75	20.4	0.1
3345967	Drill Core	0.011	2.0	59	6.62	96	0.632	3.53	0.449	0.36	0.3	18.4	5	0.6	13.0	0.7	<0.1	<1	86	22.3	0.2
3345968	Drill Core	0.013	1.8	33	6.05	103	0.615	4.16	0.412	0.48	0.2	17.4	5	0.7	11.5	0.7	<0.1	<1	72	20.3	<0.1
3345969	Drill Core	0.015	2.1	24	5.35	249	0.584	5.17	0.725	1.64	0.3	14.9	5	0.5	9.8	0.8	<0.1	<1	61	37.4	0.3
3345970	Rock	0.005	1.5	1	1.62	30	0.005	0.08	0.028	0.03	<0.1	1.1	<1	<0.1	2.0	0.1	<0.1	<1	<1	1.1	<0.1

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3345941	Drill Core	144.6	0.4	<0.05	<0.005	<1	1.2	0.7	
3345942	Drill Core	93.7	0.4	0.07	<0.005	2	0.7	0.5	
3345943	Drill Core	110.9	0.3	0.19	0.011	7	1.6	0.8	
3345944	Drill Core	139.5	0.5	<0.05	<0.005	<1	0.6	1.0	
3345945	Drill Core	112.5	0.4	0.08	<0.005	<1	1.5	0.8	
3345946	Drill Core	86.1	0.4	<0.05	<0.005	<1	1.1	<0.5	
3345947	Drill Core	148.5	0.3	<0.05	0.006	<1	<0.5	1.1	
3345948	Drill Core	116.9	0.5	<0.05	<0.005	<1	1.6	0.7	
3345949	Drill Core	66.3	0.6	0.05	<0.005	<1	2.0	<0.5	
3345950	Rock	0.7	<0.1	<0.05	<0.005	<1	3.6	<0.5	
3345951	Drill Core	105.9	0.5	<0.05	0.007	<1	1.4	0.5	
3345952	Drill Core	58.5	0.5	0.06	<0.005	<1	0.5	<0.5	
3345953	Drill Core	52.4	0.5	<0.05	<0.005	<1	0.5	<0.5	
3345954	Drill Core	51.9	0.5	0.07	<0.005	<1	1.2	<0.5	
3345955	Drill Core	41.9	0.6	0.08	<0.005	<1	1.7	<0.5	
3345956	Drill Core	61.3	0.8	0.07	<0.005	<1	2.1	<0.5	
3345957	Drill Core	102.6	0.9	<0.05	0.008	<1	2.5	0.6	
3345958	Drill Core	41.8	0.6	0.05	<0.005	<1	2.0	<0.5	
3345959	Drill Core	40.2	0.6	0.09	<0.005	<1	1.5	<0.5	
3345960	Rock Pulp	174.0	2.5	0.11	0.212	2	0.6	1.0	
3345961	Drill Core	87.9	0.6	0.05	0.005	1	2.4	0.5	
3345962	Drill Core	42.7	0.8	0.05	<0.005	<1	2.3	<0.5	
3345963	Drill Core	95.4	1.0	<0.05	0.008	<1	3.9	0.7	
3345964	Drill Core	83.4	1.1	<0.05	<0.005	<1	3.0	<0.5	
3345965	Drill Core	29.7	0.8	<0.05	<0.005	<1	1.6	<0.5	
3345966	Drill Core	12.3	0.8	<0.05	<0.005	<1	3.3	<0.5	
3345967	Drill Core	9.3	0.9	0.07	<0.005	<1	5.2	<0.5	
3345968	Drill Core	12.2	0.8	0.06	<0.005	<1	2.5	<0.5	
3345969	Drill Core	58.8	0.7	0.06	<0.005	<1	3.8	<0.5	
3345970	Rock	1.0	<0.1	<0.05	<0.005	<1	5.4	<0.5	

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3345971	Drill Core	3.43	0.011	19.4	39.8	4.8	119	0.2	54.2	57.5	1858	10.59	13	0.7	0.3	268	0.2	1.2	<0.1	553	9.96
3345972	Drill Core	4.00	<0.005	0.3	9.3	4.8	118	<0.1	65.1	67.6	1785	14.09	11	0.1	0.2	443	0.1	2.0	<0.1	705	10.33
3345973	Drill Core	4.91	0.023	0.4	16.0	12.2	135	0.2	51.7	62.7	2131	11.03	41	0.2	0.3	469	0.2	2.6	<0.1	604	10.26
3345974	Drill Core	4.67	0.007	0.3	15.4	8.4	93	<0.1	40.7	51.7	1690	9.41	18	0.2	0.3	647	<0.1	2.5	<0.1	518	10.48
3345975	Core DUP		0.008	0.4	15.6	9.5	95	<0.1	39.2	50.6	1698	9.47	19	0.2	0.3	654	0.2	2.7	<0.1	521	10.55
3345976	Drill Core	4.67	0.010	0.6	26.1	5.0	101	0.1	43.9	57.9	1975	10.54	17	0.2	0.3	526	0.1	1.8	<0.1	568	10.81
3345977	Drill Core	3.69	0.008	0.3	7.6	3.7	105	<0.1	41.7	54.4	1983	10.98	9	0.1	0.3	304	<0.1	1.5	<0.1	588	10.84
3345978	Drill Core	3.57	0.032	1.6	37.4	13.9	143	0.2	29.8	51.3	2182	9.87	30	0.3	0.3	446	0.2	2.0	<0.1	543	8.88
3345979	Drill Core	3.16	0.017	0.9	137.5	15.2	111	0.4	95.6	41.2	1502	6.75	10	1.4	1.7	475	0.2	0.9	0.1	301	6.99
3345980	Rock Pulp	0.13	0.236	97.8	2729.7	21.7	84	0.3	58.8	16.3	547	4.29	20	5.2	18.0	325	0.4	2.0	0.7	120	2.53
3345981	Drill Core	3.01	0.005	3.4	120.2	5.7	88	0.2	111.5	39.6	1374	6.61	7	1.2	2.0	473	0.1	0.6	<0.1	243	6.65
3345982	Drill Core	2.77	0.010	0.9	53.6	19.3	127	0.2	37.6	55.7	2198	10.46	21	0.2	0.3	460	0.3	2.3	<0.1	573	10.61
3345983	Drill Core	4.49	0.017	0.4	33.8	19.8	187	0.2	27.4	51.4	2646	9.68	26	0.4	0.3	409	0.3	1.6	<0.1	515	8.61
3345984	Drill Core	4.96	<0.005	0.4	38.9	8.5	83	<0.1	24.8	45.9	1391	9.05	13	0.1	0.2	906	<0.1	2.1	<0.1	454	9.16
3345985	Drill Core	4.90	0.009	0.4	19.9	7.2	84	<0.1	25.4	52.4	1420	9.05	17	<0.1	0.2	842	0.1	1.9	<0.1	480	9.06
3345986	Drill Core	5.09	0.006	0.3	27.2	6.5	69	0.1	26.5	49.6	1348	8.99	13	<0.1	0.2	1114	0.1	2.0	<0.1	478	10.14
3345987	Drill Core	5.33	0.010	0.4	21.0	6.0	113	0.1	29.6	52.7	1677	10.12	22	<0.1	0.2	635	0.3	2.1	<0.1	548	9.21
3345988	Drill Core	4.97	0.007	0.5	13.1	7.7	82	<0.1	26.6	53.4	1446	9.30	13	0.1	0.2	1495	0.1	4.2	<0.1	494	9.93
3345989	Drill Core	4.59	<0.005	0.3	14.0	6.5	88	<0.1	29.1	54.9	1438	9.95	11	<0.1	0.1	1267	0.2	3.1	<0.1	550	9.84
3345990	Rock	1.39	<0.005	<0.1	1.1	0.8	4	<0.1	1.5	0.7	162	0.17	<1	0.1	<0.1	83	<0.1	<0.1	<0.1	4	31.31
3345991	Drill Core	4.50	<0.005	0.9	79.5	5.6	88	0.1	89.8	51.5	1514	8.67	9	0.7	1.4	855	0.2	2.5	<0.1	414	7.81
3345992	Drill Core	3.18	0.006	1.2	140.7	4.1	80	0.2	125.2	41.5	1290	6.69	7	1.0	2.2	710	0.2	1.9	<0.1	249	6.47
3345993	Drill Core	2.74	0.007	0.7	108.5	5.2	89	0.1	123.6	43.0	1351	6.51	6	1.0	2.0	781	0.2	2.1	<0.1	245	7.15
3345994	Drill Core	3.54	0.012	0.6	43.8	8.7	111	0.2	38.4	58.9	1663	11.93	18	0.1	0.3	997	0.2	4.8	<0.1	694	10.42
3345995	Drill Core	5.00	<0.005	0.4	21.3	4.8	148	<0.1	48.5	67.6	1828	14.73	11	0.1	0.3	546	0.1	3.4	<0.1	816	9.10
3345996	Drill Core	5.01	0.005	0.5	24.1	4.6	134	<0.1	54.3	73.5	1880	15.55	10	0.2	0.4	688	0.1	2.9	<0.1	854	9.95
3345997	Drill Core	2.77	0.129	1.7	52.2	56.8	410	0.8	37.3	59.9	2354	10.63	23	0.8	0.4	216	5.0	1.7	1.1	590	9.74
3345998	Drill Core	3.08	0.031	0.7	30.5	17.1	176	0.2	36.9	45.2	1870	8.65	23	0.4	0.3	624	0.5	2.7	0.3	445	7.97
3345999	Drill Core	2.31	0.006	1.3	119.4	8.2	77	0.2	124.1	40.2	1304	6.42	8	1.0	2.0	831	0.4	2.2	<0.1	242	6.80
3346000	Rock Pulp	0.13	0.227	99.3	2790.0	22.0	82	0.3	65.2	15.9	557	4.31	19	4.6	17.6	325	0.4	2.3	0.7	127	2.64

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Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3345971	Drill Core	0.020	2.6	49	5.43	335	0.565	4.75	0.704	2.00	0.3	15.8	6	0.6	10.9	1.2	<0.1	2	68	44.9	0.7
3345972	Drill Core	0.014	2.2	52	6.16	124	0.698	4.18	0.571	0.42	0.3	18.9	5	0.7	11.9	0.8	<0.1	<1	80	24.9	<0.1
3345973	Drill Core	0.020	2.6	64	5.70	223	0.649	4.44	0.692	0.66	0.6	17.0	6	0.7	12.4	0.9	<0.1	<1	73	21.3	1.1
3345974	Drill Core	0.019	2.3	71	5.20	308	0.518	6.21	0.647	1.11	0.4	15.0	6	0.6	10.3	0.9	<0.1	<1	58	29.4	0.4
3345975	Core DUP	0.018	2.4	69	5.26	323	0.497	6.22	0.670	1.10	0.4	15.3	6	0.5	10.5	0.8	<0.1	<1	58	29.6	0.4
3345976	Drill Core	0.017	2.5	118	6.37	138	0.588	4.26	0.694	0.53	0.6	19.1	6	0.5	13.7	0.9	<0.1	<1	76	24.6	0.3
3345977	Drill Core	0.017	2.4	172	6.53	142	0.599	3.72	0.603	0.52	0.5	19.7	6	0.6	13.4	0.8	<0.1	<1	84	22.3	<0.1
3345978	Drill Core	0.031	2.9	77	4.81	335	0.548	6.02	1.124	2.26	0.9	12.4	6	0.8	10.2	1.0	<0.1	<1	51	44.6	1.9
3345979	Drill Core	0.161	8.0	205	4.86	882	0.362	6.04	1.154	3.58	0.6	25.8	16	0.5	10.7	3.3	0.1	3	25	49.3	0.9
3345980	Rock Pulp	0.102	30.6	83	1.46	1004	0.487	7.06	2.034	3.29	4.3	69.7	63	3.2	23.7	17.8	1.3	3	13	36.5	0.3
3345981	Drill Core	0.184	9.3	249	5.23	994	0.373	6.40	1.404	3.86	0.5	29.0	18	0.6	11.7	3.4	0.2	2	27	55.5	0.2
3345982	Drill Core	0.031	2.6	102	5.59	228	0.615	4.63	0.770	1.22	0.6	17.9	7	0.6	13.3	1.0	<0.1	<1	73	30.6	0.8
3345983	Drill Core	0.022	2.5	43	4.27	566	0.515	6.95	0.783	4.00	0.6	9.7	6	0.5	9.0	1.1	<0.1	1	43	78.8	1.3
3345984	Drill Core	0.022	2.3	12	3.88	342	0.447	8.12	0.682	1.60	0.2	11.6	5	0.5	7.2	0.8	<0.1	<1	32	32.3	0.1
3345985	Drill Core	0.013	2.0	13	4.39	293	0.452	7.96	0.651	1.25	0.2	12.1	4	0.4	7.9	0.6	<0.1	<1	36	32.3	0.3
3345986	Drill Core	0.015	2.1	14	4.38	170	0.462	8.04	0.670	0.85	0.2	11.8	5	0.4	8.2	0.5	<0.1	<1	40	27.1	0.3
3345987	Drill Core	0.013	2.1	12	4.83	287	0.544	7.40	0.654	1.65	0.4	12.4	5	0.5	9.5	0.6	<0.1	<1	47	36.0	0.4
3345988	Drill Core	0.016	2.1	9	4.27	211	0.473	7.81	0.715	1.11	0.4	12.2	5	0.5	7.9	0.6	<0.1	<1	36	31.3	0.2
3345989	Drill Core	0.011	1.8	10	4.63	189	0.530	7.30	0.665	0.99	0.3	13.2	4	0.4	8.5	0.5	<0.1	<1	44	29.3	<0.1
3345990	Rock	0.006	1.6	3	3.12	21	0.008	0.13	0.035	0.03	<0.1	1.3	1	0.1	2.6	0.2	<0.1	<1	<1	1.3	<0.1
3345991	Drill Core	0.126	6.6	168	5.52	337	0.476	6.53	1.732	1.13	0.7	30.7	14	0.8	11.8	2.8	0.2	<1	38	41.1	<0.1
3345992	Drill Core	0.199	9.8	254	5.28	1042	0.355	6.85	2.028	2.60	0.8	34.9	19	0.7	12.1	4.0	0.2	1	25	47.0	<0.1
3345993	Drill Core	0.189	9.6	257	5.29	799	0.340	6.60	2.144	1.46	1.4	30.5	19	0.6	12.2	3.9	0.2	1	26	34.9	<0.1
3345994	Drill Core	0.015	2.1	24	4.46	203	0.644	6.40	0.632	0.97	1.6	13.2	5	0.7	9.1	0.9	<0.1	<1	52	27.8	0.5
3345995	Drill Core	0.017	2.4	33	5.47	188	0.717	5.35	0.662	0.73	0.5	16.2	6	0.7	11.0	1.0	<0.1	<1	61	28.8	0.1
3345996	Drill Core	0.020	2.5	32	5.56	120	0.765	4.70	0.668	0.41	0.4	18.2	6	0.7	11.6	1.2	<0.1	<1	62	20.7	0.3
3345997	Drill Core	0.024	2.6	20	4.47	156	0.574	4.87	1.568	1.64	0.9	14.3	6	0.6	10.5	1.4	<0.1	2	50	34.5	2.7
3345998	Drill Core	0.026	2.7	26	4.43	433	0.424	7.51	0.864	2.18	0.5	10.7	6	0.5	8.7	1.0	<0.1	<1	34	51.9	1.3
3345999	Drill Core	0.186	9.3	255	5.19	940	0.336	6.65	1.874	1.67	0.7	30.1	18	0.5	11.7	3.7	0.2	1	23	32.1	<0.1
3346000	Rock Pulp	0.098	29.5	88	1.49	1085	0.494	7.34	2.222	3.12	4.6	69.0	62	3.6	23.8	18.8	1.3	3	13	34.2	0.3

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3345971	Drill Core	60.8	0.8	0.09	<0.005	<1	3.9	<0.5	
3345972	Drill Core	10.8	0.9	0.07	<0.005	<1	3.9	<0.5	
3345973	Drill Core	16.5	0.7	0.07	<0.005	<1	3.4	<0.5	
3345974	Drill Core	26.8	0.6	0.09	<0.005	<1	2.8	<0.5	
3345975	Core DUP	26.7	0.7	0.06	<0.005	<1	3.0	<0.5	
3345976	Drill Core	15.0	1.0	0.06	<0.005	<1	4.6	<0.5	
3345977	Drill Core	14.8	1.1	0.07	<0.005	<1	4.5	<0.5	
3345978	Drill Core	74.7	0.6	0.05	<0.005	<1	1.5	<0.5	
3345979	Drill Core	80.7	0.8	0.07	0.007	<1	2.2	<0.5	
3345980	Rock Pulp	187.9	2.4	0.09	<0.005	1	0.7	1.0	
3345981	Drill Core	105.5	0.9	<0.05	<0.005	<1	2.5	0.5	
3345982	Drill Core	41.5	0.8	<0.05	<0.005	<1	4.7	<0.5	
3345983	Drill Core	147.6	0.5	<0.05	<0.005	<1	2.9	0.8	
3345984	Drill Core	30.8	0.5	0.07	<0.005	<1	2.8	<0.5	
3345985	Drill Core	28.9	0.5	<0.05	<0.005	<1	3.5	<0.5	
3345986	Drill Core	26.8	0.5	0.06	<0.005	<1	2.0	<0.5	
3345987	Drill Core	57.0	0.6	0.06	<0.005	<1	2.1	<0.5	
3345988	Drill Core	35.4	0.6	<0.05	<0.005	<1	1.6	<0.5	
3345989	Drill Core	30.5	0.6	0.07	<0.005	<1	1.6	<0.5	
3345990	Rock	0.9	<0.1	<0.05	<0.005	<1	3.9	<0.5	
3345991	Drill Core	33.2	0.9	<0.05	<0.005	<1	3.9	<0.5	
3345992	Drill Core	62.8	0.9	<0.05	<0.005	<1	3.5	<0.5	
3345993	Drill Core	29.6	0.9	<0.05	<0.005	<1	3.3	<0.5	
3345994	Drill Core	27.8	0.7	0.05	<0.005	<1	3.4	<0.5	
3345995	Drill Core	23.1	0.9	0.08	<0.005	<1	1.6	<0.5	
3345996	Drill Core	11.9	0.9	0.08	<0.005	<1	2.6	<0.5	
3345997	Drill Core	55.7	0.7	0.06	<0.005	3	3.0	<0.5	
3345998	Drill Core	95.5	0.5	<0.05	<0.005	1	1.5	<0.5	
3345999	Drill Core	36.2	0.9	<0.05	<0.005	<1	2.1	<0.5	
3346000	Rock Pulp	175.6	2.3	0.07	<0.005	2	0.7	1.0	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346001	Drill Core	2.81	<0.005	1.1	106.0	8.2	82	0.2	129.5	42.4	1371	6.54	7	1.1	2.1	886	0.2	2.1	<0.1	248	7.02
3346002	Drill Core	3.46	0.013	1.0	69.1	19.1	123	0.2	35.5	49.0	1734	8.84	10	0.2	0.3	890	0.2	4.9	<0.1	445	9.13
3346003	Drill Core	4.48	0.054	0.3	25.2	42.2	158	0.4	40.5	55.1	2059	10.39	48	0.2	0.2	674	0.3	4.6	0.2	554	9.79
3346004	Drill Core	4.14	0.121	0.6	34.9	51.5	204	0.4	66.5	88.5	2272	15.70	56	0.3	0.2	214	0.3	2.4	0.1	818	8.45
3346005	Core DUP		0.116	0.7	32.8	54.7	205	0.3	62.4	86.0	2241	15.47	65	0.3	0.3	208	0.3	2.5	0.2	818	8.44
3346006	Drill Core	3.46	<0.005	0.4	15.9	4.1	133	<0.1	56.5	72.8	1985	13.78	5	0.1	0.3	298	0.2	1.7	<0.1	758	9.74
3346007	Drill Core	4.53	0.008	1.0	66.6	8.9	140	0.1	33.5	48.6	1707	9.41	10	0.5	0.8	538	0.2	1.5	<0.1	496	8.62
3346008	Drill Core	4.36	<0.005	2.4	153.2	12.9	117	0.3	9.2	21.8	1325	6.00	6	1.0	1.8	620	0.3	1.7	<0.1	239	5.91
3346009	Drill Core	4.91	<0.005	0.7	59.5	13.4	147	0.2	51.8	65.0	2044	12.42	10	0.2	0.5	593	0.2	2.3	<0.1	687	10.20
3346010	Rock	1.45	<0.005	<0.1	0.9	0.4	2	<0.1	<0.1	0.3	106	0.11	<1	0.2	0.1	75	<0.1	<0.1	<0.1	2	32.15
3346011	Drill Core	3.21	<0.005	0.3	30.2	7.3	117	0.1	64.5	63.9	1751	12.16	9	0.3	0.3	487	0.1	1.5	<0.1	691	9.84
3346012	Drill Core	2.89	0.007	2.1	135.6	8.1	113	0.2	169.0	47.4	1409	6.73	6	1.3	2.4	483	0.2	0.6	<0.1	238	6.40
3346013	Drill Core	4.64	<0.005	1.8	139.8	12.3	83	0.2	167.8	46.7	1249	6.55	5	1.2	2.3	626	<0.1	0.4	<0.1	231	6.17
3346014	Drill Core	3.58	<0.005	1.5	129.6	6.8	68	0.1	162.0	45.2	1248	6.50	4	1.0	2.1	734	<0.1	0.4	<0.1	220	6.09
3346015	Core DUP		<0.005	1.5	127.8	7.1	69	0.1	160.2	43.9	1212	6.23	4	1.1	2.2	717	<0.1	0.4	<0.1	214	5.94
3346016	Drill Core	1.85	<0.005	1.4	104.2	4.8	78	0.1	163.9	46.9	1284	6.65	5	1.1	2.3	624	<0.1	0.4	<0.1	235	5.25
3346017	Drill Core	3.25	<0.005	0.8	61.4	6.2	87	<0.1	63.8	57.0	1655	10.03	5	0.5	0.9	784	0.2	1.4	<0.1	531	8.85
3346018	Drill Core	2.03	<0.005	3.8	126.5	11.2	82	0.1	6.5	24.7	1328	5.62	6	1.1	1.7	1151	0.2	1.1	<0.1	232	4.86
3346019	Drill Core	3.69	0.007	1.7	128.6	11.0	71	0.1	5.9	23.9	1169	5.20	5	1.1	1.7	968	0.2	1.3	<0.1	231	4.75
3346020	Rock Pulp	0.11	1.498	263.2	>10000	20.1	93	2.2	23.0	13.8	723	4.90	6	1.0	3.7	444	0.9	2.5	0.4	90	1.98
3346021	Drill Core	3.19	0.007	1.5	126.6	26.5	84	0.1	22.1	27.8	1234	5.71	5	1.1	1.7	942	0.2	1.3	<0.1	224	4.07
3346022	Drill Core	3.17	0.006	1.3	126.1	9.5	85	0.1	5.8	22.6	1246	5.35	5	1.0	1.8	1165	0.2	1.7	<0.1	220	5.00
3346023	Drill Core	4.66	<0.005	0.3	45.1	4.3	94	<0.1	90.0	62.9	1626	10.82	6	0.4	0.6	385	<0.1	1.6	<0.1	580	9.34
3346024	Drill Core	5.00	<0.005	0.3	15.4	3.7	91	<0.1	56.9	69.6	1652	12.94	4	<0.1	0.2	355	0.1	1.6	<0.1	739	9.96
3346025	Drill Core	5.16	0.024	0.4	16.1	5.4	130	<0.1	58.5	69.7	1853	13.09	5	0.2	0.3	447	0.2	1.9	<0.1	700	9.76
3346026	Drill Core	3.42	0.012	1.3	192.0	7.0	162	0.4	55.3	67.1	2484	12.16	4	0.3	0.2	315	0.2	2.2	<0.1	664	10.15
3346027	Drill Core	3.57	0.006	1.1	35.6	6.5	108	<0.1	50.9	65.8	1803	11.42	6	0.2	0.4	340	<0.1	2.0	<0.1	608	10.26
3346028	Drill Core	3.84	0.016	0.9	179.0	14.7	66	0.4	27.0	79.8	1298	8.75	14	0.7	1.8	1361	0.2	4.6	<0.1	438	10.64
3346029	Drill Core	3.11	0.007	0.3	17.7	5.0	116	<0.1	49.7	62.9	1721	12.17	5	0.1	0.2	292	<0.1	1.6	<0.1	628	8.97
3346030	Rock	1.37	<0.005	0.1	2.0	0.8	4	0.4	1.2	0.5	108	0.12	<1	0.3	0.1	99	<0.1	0.7	13.4	2	34.06

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Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346001	Drill Core	0.199	9.8	294	5.40	1050	0.361	6.99	1.599	2.48	3.0	30.6	19	0.4	11.8	3.9	0.2	1	26	34.0	<0.1
3346002	Drill Core	0.028	2.7	23	3.97	350	0.438	8.14	0.751	1.62	1.4	9.9	6	0.4	8.5	0.9	<0.1	<1	35	39.5	0.4
3346003	Drill Core	0.014	2.1	11	4.53	244	0.552	6.70	0.802	1.22	1.4	10.1	5	0.4	8.8	0.7	<0.1	<1	46	33.5	2.2
3346004	Drill Core	0.019	2.5	22	6.17	144	0.798	4.47	0.588	1.02	1.3	15.9	6	0.7	13.3	0.9	<0.1	<1	79	36.5	2.5
3346005	Core DUP	0.020	2.5	22	6.07	152	0.810	4.40	0.555	1.02	1.3	15.6	6	0.7	13.4	1.0	<0.1	<1	79	39.7	2.7
3346006	Drill Core	0.019	2.3	18	6.17	207	0.716	4.35	0.608	0.67	0.4	17.6	6	0.7	12.6	0.9	<0.1	<1	73	26.7	<0.1
3346007	Drill Core	0.062	4.9	28	3.88	693	0.553	6.79	1.504	1.96	0.5	19.7	10	0.7	11.5	2.9	0.1	<1	41	33.5	0.4
3346008	Drill Core	0.139	10.5	26	2.31	1469	0.421	8.22	2.875	2.94	0.6	27.2	20	0.7	16.1	6.8	0.4	<1	19	17.4	0.1
3346009	Drill Core	0.036	3.3	24	5.58	419	0.677	5.19	0.843	0.91	0.4	20.1	8	0.8	12.1	1.8	0.1	<1	65	19.0	<0.1
3346010	Rock	0.007	1.2	2	1.80	28	0.007	0.12	0.059	0.03	<0.1	2.2	<1	<0.1	2.2	0.2	<0.1	<1	<1	0.7	<0.1
3346011	Drill Core	0.028	2.3	45	5.79	261	0.647	5.03	0.509	0.82	0.4	15.9	6	0.6	10.0	0.9	<0.1	<1	61	26.6	0.2
3346012	Drill Core	0.213	10.2	343	6.26	1475	0.314	6.56	1.170	4.02	0.7	31.9	19	0.5	11.2	3.3	0.2	2	24	60.8	0.2
3346013	Drill Core	0.205	9.6	341	5.97	1378	0.309	6.26	0.799	4.15	0.6	28.2	18	0.6	11.0	3.1	0.2	1	23	54.5	0.1
3346014	Drill Core	0.189	9.8	322	5.93	1141	0.301	6.13	0.797	3.73	0.5	29.2	18	0.5	10.9	3.1	0.2	1	22	48.4	<0.1
3346015	Core DUP	0.193	9.6	345	5.82	1153	0.292	5.99	0.772	3.82	0.5	28.3	17	0.6	10.9	3.0	0.2	1	22	47.2	<0.1
3346016	Drill Core	0.207	9.6	372	6.02	1348	0.315	6.56	1.192	3.37	0.6	28.1	18	0.5	10.8	3.3	0.2	<1	23	52.5	<0.1
3346017	Drill Core	0.075	5.2	71	5.39	387	0.575	5.80	1.288	1.32	0.4	19.0	11	0.7	11.7	2.1	0.1	1	48	32.0	<0.1
3346018	Drill Core	0.219	12.8	6	2.37	596	0.446	8.40	3.895	2.49	0.6	30.6	26	0.6	16.2	6.7	0.4	2	12	31.9	0.2
3346019	Drill Core	0.200	12.0	5	2.06	882	0.398	7.93	3.710	2.92	0.7	26.1	24	0.7	15.3	6.3	0.4	1	11	31.9	0.2
3346020	Rock Pulp	0.071	12.5	45	0.88	106	0.280	7.12	2.537	1.78	1.9	30.6	25	2.7	12.7	6.0	0.3	1	10	16.5	1.1
3346021	Drill Core	0.211	12.6	39	2.48	1194	0.419	8.08	3.664	2.88	0.6	30.9	25	0.7	15.2	6.4	0.4	1	13	34.2	0.2
3346022	Drill Core	0.192	12.3	5	1.97	441	0.424	8.20	4.631	1.74	0.7	30.0	24	0.7	16.8	7.1	0.4	2	12	33.4	0.1
3346023	Drill Core	0.057	3.9	104	6.05	449	0.576	4.49	0.712	1.36	0.4	18.1	7	0.6	11.2	1.1	<0.1	<1	59	31.0	<0.1
3346024	Drill Core	0.013	2.1	17	5.95	151	0.695	4.25	0.682	0.64	0.4	17.2	5	0.6	10.9	0.7	<0.1	<1	70	25.5	<0.1
3346025	Drill Core	0.018	2.6	17	5.75	171	0.730	4.26	0.485	0.76	0.5	18.2	6	0.9	12.7	1.1	<0.1	<1	67	22.2	<0.1
3346026	Drill Core	0.018	2.9	12	5.09	204	0.720	4.37	0.543	1.32	2.1	14.5	7	0.8	12.7	1.0	<0.1	<1	72	34.1	0.9
3346027	Drill Core	0.025	2.8	12	5.12	314	0.638	4.40	0.744	1.14	0.8	16.5	7	0.6	11.6	1.3	<0.1	<1	63	22.8	0.3
3346028	Drill Core	0.098	9.2	10	3.07	118	0.551	6.71	1.616	0.35	0.9	20.0	18	0.7	17.5	3.9	0.2	<1	35	10.0	0.8
3346029	Drill Core	0.012	2.2	15	5.40	347	0.666	5.18	0.646	1.05	0.5	15.0	5	0.6	11.4	0.7	<0.1	<1	61	29.6	0.3
3346030	Rock	0.007	1.9	2	1.66	30	0.008	0.17	0.077	0.04	0.8	2.6	1	<0.1	2.9	0.5	<0.1	<1	<1	1.2	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346001	Drill Core	43.8	1.0	<0.05	<0.005	<1	1.9	<0.5	
3346002	Drill Core	45.7	0.5	0.05	<0.005	<1	1.8	<0.5	
3346003	Drill Core	40.2	0.6	0.06	<0.005	2	1.2	<0.5	
3346004	Drill Core	39.8	0.8	0.12	<0.005	1	1.3	<0.5	
3346005	Core DUP	39.5	0.8	0.08	<0.005	1	2.6	<0.5	
3346006	Drill Core	21.3	0.9	0.08	<0.005	<1	3.3	<0.5	
3346007	Drill Core	51.3	0.8	0.07	<0.005	<1	2.7	<0.5	
3346008	Drill Core	34.8	1.0	<0.05	<0.005	<1	0.7	<0.5	
3346009	Drill Core	16.4	0.9	0.06	<0.005	<1	2.5	<0.5	
3346010	Rock	0.7	<0.1	<0.05	<0.005	<1	4.8	<0.5	
3346011	Drill Core	25.1	0.7	0.07	<0.005	<1	2.5	<0.5	
3346012	Drill Core	96.9	0.9	<0.05	<0.005	<1	2.9	<0.5	
3346013	Drill Core	112.2	1.0	<0.05	<0.005	<1	3.5	<0.5	
3346014	Drill Core	109.6	1.0	<0.05	<0.005	<1	2.4	<0.5	
3346015	Core DUP	111.9	0.8	<0.05	<0.005	<1	2.8	<0.5	
3346016	Drill Core	100.7	0.9	<0.05	<0.005	<1	3.1	<0.5	
3346017	Drill Core	42.9	0.8	0.08	<0.005	<1	3.8	<0.5	
3346018	Drill Core	50.9	1.1	<0.05	<0.005	<1	0.6	<0.5	
3346019	Drill Core	53.5	0.9	<0.05	<0.005	<1	0.7	<0.5	
3346020	Rock Pulp	49.8	1.0	0.14	0.164	3	<0.5	<0.5	1.35
3346021	Drill Core	51.8	1.0	<0.05	<0.005	<1	0.7	<0.5	
3346022	Drill Core	44.9	1.0	0.07	<0.005	<1	1.0	<0.5	
3346023	Drill Core	44.1	0.9	<0.05	<0.005	<1	3.7	<0.5	
3346024	Drill Core	22.3	0.8	0.06	<0.005	<1	2.1	<0.5	
3346025	Drill Core	29.8	0.9	0.10	<0.005	<1	2.0	<0.5	
3346026	Drill Core	59.6	0.8	0.14	<0.005	<1	2.7	<0.5	
3346027	Drill Core	36.3	0.8	0.08	<0.005	<1	1.1	<0.5	
3346028	Drill Core	6.9	0.9	0.44	<0.005	<1	1.0	<0.5	
3346029	Drill Core	35.9	0.8	0.06	<0.005	<1	0.8	<0.5	
3346030	Rock	1.7	<0.1	<0.05	<0.005	<1	4.3	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346031	Drill Core	4.53	0.005	0.7	37.6	6.2	107	<0.1	52.6	66.7	1666	12.90	7	0.1	0.3	562	0.1	2.8	<0.1	656	9.61
3346032	Drill Core	4.73	0.006	0.3	23.8	5.6	110	<0.1	53.6	62.2	1718	11.96	6	0.1	0.3	386	<0.1	1.9	<0.1	632	9.98
3346033	Drill Core	4.81	0.005	0.7	22.2	5.8	123	<0.1	61.2	72.8	1757	14.07	6	0.2	0.3	382	<0.1	2.6	<0.1	714	9.50
3346034	Drill Core	4.68	0.027	0.8	39.5	6.8	100	0.1	47.5	58.3	1572	11.88	9	0.2	0.4	478	<0.1	2.1	<0.1	630	9.19
3346035	Drill Core	4.98	0.014	0.5	68.2	22.2	142	0.3	48.0	60.2	1877	11.39	6	0.8	0.3	298	0.2	1.2	0.1	616	8.78
3346036	Drill Core	5.52	0.009	0.5	34.5	8.3	155	0.2	64.6	73.3	1983	13.78	12	0.3	0.5	305	<0.1	2.0	<0.1	720	9.64
3346037	Drill Core	5.25	0.013	2.0	101.4	6.1	147	0.3	48.2	63.3	1997	12.44	10	0.3	0.5	275	<0.1	2.6	<0.1	658	8.80
3346038	Drill Core	3.44	<0.005	0.4	155.6	14.8	117	0.2	31.4	44.9	1543	9.08	7	0.2	0.5	890	0.2	3.6	<0.1	468	9.16
3346039	Drill Core	4.65	0.009	0.5	142.5	10.7	116	0.2	29.6	41.5	1528	8.12	11	0.3	0.6	852	0.2	2.3	<0.1	376	8.10
3346040	Rock Pulp	0.13	0.226	94.9	2745.5	24.0	85	0.3	61.4	16.5	558	4.34	17	6.1	20.2	320	0.3	2.2	0.8	122	2.51
3346041	Drill Core	4.34	0.014	4.3	251.0	13.4	119	0.3	20.1	41.9	1759	7.99	7	0.5	0.7	901	0.4	1.3	<0.1	380	7.70
3346042	Drill Core	4.20	0.012	0.8	180.9	8.5	113	0.2	15.6	42.3	1629	8.08	4	0.3	0.6	966	0.2	1.2	<0.1	379	7.16
3346043	Drill Core	3.81	0.008	1.9	108.5	5.4	72	0.2	116.8	39.2	1244	6.10	2	0.8	1.5	396	0.1	0.7	<0.1	218	7.19
3346044	Drill Core	4.41	0.012	2.1	124.6	12.0	88	0.2	101.5	41.5	1297	6.47	4	0.9	1.7	409	0.2	1.6	<0.1	247	5.90
3346045	Drill Core	4.27	0.007	1.4	127.5	7.0	81	0.1	107.7	40.9	1187	6.26	3	1.2	2.6	582	<0.1	1.5	<0.1	236	5.65
3346046	Drill Core	4.80	0.006	1.5	119.9	7.4	92	0.1	112.0	41.7	1219	6.29	5	1.4	2.9	832	<0.1	1.6	<0.1	236	5.87
3346047	Drill Core	4.13	0.008	0.7	129.5	6.2	94	0.2	103.8	42.4	1348	6.58	4	1.4	2.7	875	<0.1	1.8	<0.1	249	6.25
3346048	Drill Core	2.87	0.011	0.6	148.4	10.9	98	0.2	72.7	38.3	1400	6.57	6	1.4	2.4	812	0.1	1.5	0.2	279	6.14
3346049	Drill Core	2.97	0.008	0.3	149.6	6.6	98	0.2	58.0	37.1	1376	6.36	6	1.2	2.2	418	0.1	1.1	<0.1	267	6.53
3346050	Rock	1.37	<0.005	<0.1	1.1	0.4	3	<0.1	2.4	0.4	109	0.10	<1	0.1	<0.1	95	<0.1	<0.1	<0.1	1	33.90
3346051	Drill Core	4.83	0.008	1.3	147.6	13.6	107	0.2	10.8	33.7	1685	7.03	8	0.6	1.2	1186	0.2	2.6	<0.1	362	6.42
3346052	Drill Core	4.19	0.007	1.1	139.0	9.0	104	0.2	11.2	34.5	1609	6.92	7	0.6	1.2	887	<0.1	1.6	<0.1	338	5.28
3346053	Drill Core	4.12	0.006	1.0	196.6	13.8	121	0.3	11.7	35.4	1595	6.79	5	0.7	1.2	737	0.2	1.1	<0.1	342	5.80
3346054	Drill Core	4.31	0.012	2.5	180.8	16.3	133	0.3	10.3	33.6	1703	6.90	7	0.9	1.1	738	0.3	1.1	0.3	357	5.74
3346055	Core DUP		0.014	2.8	181.7	16.5	134	0.3	10.8	34.1	1728	6.95	7	0.9	1.1	720	0.2	1.0	0.3	360	5.86
3346056	Drill Core	4.25	0.005	0.9	153.0	8.4	107	0.2	9.2	30.4	1639	6.77	5	0.5	1.1	932	0.1	1.9	<0.1	304	5.98
3346057	Drill Core	4.15	0.006	2.1	190.5	10.9	107	0.2	7.0	26.6	1533	6.23	7	0.6	1.2	1057	0.2	2.0	<0.1	290	5.12
3346058	Drill Core	4.83	0.007	1.7	141.4	10.0	108	0.2	7.5	32.0	1531	6.60	8	0.6	1.4	935	0.2	2.0	0.3	289	5.31
3346059	Drill Core	4.34	0.009	3.2	212.3	10.8	121	0.3	7.4	30.7	1650	6.69	7	0.7	1.4	1000	0.2	1.8	<0.1	299	5.38
3346060	Rock Pulp	0.13	0.227	97.5	2843.3	23.7	82	0.3	61.6	16.0	568	4.37	18	5.8	19.9	305	0.2	2.3	0.8	125	2.57

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346031	Drill Core	0.015	2.7	15	5.69	154	0.710	4.62	0.531	0.56	0.6	17.8	6	0.8	12.8	1.0	<0.1	<1	64	19.3	<0.1
3346032	Drill Core	0.016	2.5	16	5.73	182	0.678	4.62	0.547	0.67	0.9	19.2	6	0.7	12.8	0.9	<0.1	<1	65	25.5	<0.1
3346033	Drill Core	0.017	2.8	17	5.98	153	0.779	4.60	0.494	0.60	1.0	20.7	7	0.7	13.4	1.1	<0.1	<1	68	22.9	<0.1
3346034	Drill Core	0.018	3.0	20	5.17	227	0.696	5.40	0.699	0.72	0.8	18.1	7	0.7	12.4	1.1	<0.1	<1	57	21.5	0.1
3346035	Drill Core	0.014	2.8	12	5.09	393	0.641	4.76	0.809	2.45	0.5	17.6	6	0.8	12.4	1.6	<0.1	3	58	44.7	1.3
3346036	Drill Core	0.016	3.2	17	5.72	202	0.793	4.03	0.457	1.87	0.7	20.6	8	0.6	14.5	1.5	<0.1	<1	66	40.4	0.6
3346037	Drill Core	0.016	3.3	17	5.14	328	0.724	4.69	0.779	2.34	1.0	18.6	8	0.7	13.8	1.5	<0.1	1	58	36.5	0.6
3346038	Drill Core	0.025	3.8	13	3.76	438	0.581	7.45	0.930	1.36	0.3	16.4	8	0.6	12.1	1.7	<0.1	<1	39	22.8	<0.1
3346039	Drill Core	0.045	5.0	10	3.44	436	0.470	8.05	1.241	1.19	0.2	16.1	10	0.6	13.3	1.9	0.1	<1	30	24.2	0.4
3346040	Rock Pulp	0.096	34.3	84	1.47	1001	0.499	7.24	2.032	3.09	5.0	75.9	69	3.5	27.0	18.4	1.4	3	13	33.8	0.3
3346041	Drill Core	0.043	5.3	11	3.25	635	0.481	8.10	1.224	2.22	0.3	18.2	10	0.6	12.8	2.6	0.1	2	29	29.6	0.5
3346042	Drill Core	0.070	5.3	6	3.18	701	0.472	8.09	1.434	2.42	0.3	17.0	11	0.5	11.7	2.3	0.1	<1	26	30.4	0.2
3346043	Drill Core	0.153	7.9	252	5.06	537	0.326	5.80	1.681	3.14	0.7	28.7	15	0.6	11.8	3.2	0.2	1	26	29.3	0.3
3346044	Drill Core	0.161	9.0	211	4.88	664	0.353	6.24	1.991	2.91	0.9	24.1	17	0.6	11.9	2.9	0.2	1	28	28.0	0.7
3346045	Drill Core	0.177	11.1	234	5.25	1216	0.356	6.57	1.408	3.65	0.6	28.9	21	0.5	11.9	3.9	0.2	1	27	32.2	<0.1
3346046	Drill Core	0.197	12.4	254	5.15	1474	0.365	6.88	1.110	3.86	0.7	34.6	23	0.5	12.8	4.2	0.2	1	26	31.2	<0.1
3346047	Drill Core	0.192	12.0	225	5.22	1119	0.351	6.87	1.455	2.69	0.5	30.3	22	0.5	11.8	4.0	0.2	<1	26	30.6	<0.1
3346048	Drill Core	0.181	11.4	157	4.42	1115	0.392	7.09	1.684	3.03	0.6	27.0	21	0.6	13.3	4.1	0.2	1	26	33.0	0.4
3346049	Drill Core	0.175	10.8	119	4.00	817	0.377	6.61	2.164	3.05	0.3	30.4	21	0.6	12.2	3.5	0.2	1	28	26.4	0.2
3346050	Rock	0.006	1.2	2	1.65	33	0.005	0.06	0.025	0.01	<0.1	1.1	<1	<0.1	2.6	0.2	<0.1	<1	<1	1.0	<0.1
3346051	Drill Core	0.178	9.3	11	2.70	1010	0.494	8.46	2.149	2.18	0.5	21.5	19	0.6	16.6	3.7	0.2	1	21	21.3	0.2
3346052	Drill Core	0.172	9.9	11	2.83	1053	0.480	8.53	2.412	2.75	0.8	19.0	19	0.5	17.2	3.7	0.2	1	21	30.3	0.4
3346053	Drill Core	0.191	9.6	10	2.61	1210	0.462	8.00	1.739	3.94	0.4	21.1	19	0.6	18.1	3.8	0.2	2	20	35.5	0.4
3346054	Drill Core	0.135	8.4	11	2.64	828	0.476	8.36	1.902	3.45	0.4	20.2	17	0.7	15.8	4.5	0.2	3	22	33.5	1.0
3346055	Core DUP	0.128	8.3	11	2.66	742	0.482	8.31	1.903	3.61	0.4	21.6	17	0.7	15.9	4.5	0.2	2	21	33.5	1.0
3346056	Drill Core	0.112	8.0	10	2.53	950	0.484	8.77	2.479	2.19	0.5	19.8	16	0.6	14.6	3.4	0.2	<1	21	21.6	0.1
3346057	Drill Core	0.151	9.1	7	2.09	1201	0.460	8.56	2.755	2.65	0.9	18.9	19	0.6	16.9	4.5	0.2	<1	16	17.6	0.2
3346058	Drill Core	0.163	9.6	6	2.21	1228	0.451	8.52	2.633	2.41	0.6	20.5	19	0.6	15.9	4.2	0.3	1	17	19.3	0.3
3346059	Drill Core	0.170	9.4	6	2.25	1260	0.488	8.39	2.480	2.29	0.9	20.2	20	0.6	16.4	4.4	0.2	<1	18	20.9	0.3
3346060	Rock Pulp	0.100	37.2	84	1.49	1042	0.497	7.32	2.089	2.70	4.5	68.7	74	3.5	26.7	18.0	1.4	3	14	33.0	0.3

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346031	Drill Core	20.1	0.9	0.08	<0.005	<1	0.8	<0.5	
3346032	Drill Core	24.9	1.0	0.08	<0.005	<1	3.1	<0.5	
3346033	Drill Core	22.1	1.0	0.09	<0.005	<1	2.9	<0.5	
3346034	Drill Core	22.4	0.9	0.08	<0.005	<1	1.2	<0.5	
3346035	Drill Core	96.3	0.9	0.10	<0.005	1	1.3	0.5	
3346036	Drill Core	97.1	1.0	0.08	<0.005	<1	0.7	0.5	
3346037	Drill Core	95.2	0.8	0.07	<0.005	<1	0.9	0.5	
3346038	Drill Core	43.2	0.8	0.05	<0.005	<1	1.4	<0.5	
3346039	Drill Core	39.0	0.8	0.05	<0.005	<1	0.6	<0.5	
3346040	Rock Pulp	201.6	2.4	0.07	<0.005	<1	0.7	1.0	
3346041	Drill Core	69.8	0.8	<0.05	0.008	<1	1.9	<0.5	
3346042	Drill Core	80.2	0.7	0.06	<0.005	<1	0.9	<0.5	
3346043	Drill Core	114.9	0.8	<0.05	<0.005	<1	2.4	0.6	
3346044	Drill Core	97.4	0.8	<0.05	<0.005	1	2.4	<0.5	
3346045	Drill Core	109.6	0.9	0.06	<0.005	<1	1.3	<0.5	
3346046	Drill Core	103.3	1.0	<0.05	<0.005	<1	1.6	<0.5	
3346047	Drill Core	69.0	1.0	<0.05	<0.005	<1	2.2	<0.5	
3346048	Drill Core	96.2	1.1	0.05	<0.005	<1	1.0	<0.5	
3346049	Drill Core	91.7	1.0	0.06	<0.005	<1	1.2	<0.5	
3346050	Rock	0.3	<0.1	<0.05	<0.005	<1	4.0	<0.5	
3346051	Drill Core	50.7	0.9	<0.05	<0.005	<1	1.0	<0.5	
3346052	Drill Core	77.8	0.7	0.06	<0.005	<1	<0.5	<0.5	
3346053	Drill Core	125.9	0.8	<0.05	<0.005	1	1.1	<0.5	
3346054	Drill Core	118.1	0.8	<0.05	0.010	1	1.1	<0.5	
3346055	Core DUP	120.4	0.8	<0.05	<0.005	1	0.7	<0.5	
3346056	Drill Core	58.1	0.7	0.08	<0.005	<1	0.6	<0.5	
3346057	Drill Core	49.6	0.7	<0.05	<0.005	<1	0.5	<0.5	
3346058	Drill Core	45.7	0.7	0.05	<0.005	<1	0.8	<0.5	
3346059	Drill Core	53.4	0.8	<0.05	<0.005	<1	0.7	<0.5	
3346060	Rock Pulp	216.0	2.4	0.09	<0.005	<1	<0.5	1.0	

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346061	Drill Core	4.35	0.030	1.9	206.4	40.6	172	0.5	6.9	29.6	2002	6.61	27	1.1	1.4	644	1.3	1.2	0.4	302	4.90
3346062	Drill Core	4.16	0.009	8.0	259.5	23.9	118	0.4	6.9	29.3	1736	6.71	7	1.8	1.2	923	0.5	0.8	0.2	310	5.54
3346063	Drill Core	4.24	0.006	3.5	186.9	6.1	88	0.2	7.0	30.4	1492	6.52	5	0.5	1.0	1050	0.1	1.0	<0.1	278	5.61
3346064	Drill Core	4.20	0.006	2.9	212.4	6.5	95	0.2	7.3	30.3	1585	6.85	5	0.5	1.1	957	0.2	1.0	<0.1	287	5.53
3346065	Drill Core	3.90	0.008	5.9	208.9	11.0	118	0.2	6.8	30.1	1567	6.65	6	0.8	1.0	865	0.5	0.7	0.1	290	5.29
3346066	Drill Core	4.39	0.010	1.5	147.4	16.6	116	0.2	7.5	30.5	1534	6.67	9	0.4	0.9	1123	2.2	1.1	<0.1	287	5.60
3346067	Drill Core	3.17	0.007	1.3	139.4	4.3	102	0.2	156.6	49.5	1413	6.86	4	0.9	1.6	484	0.1	0.5	<0.1	225	6.57
3346068	Drill Core	2.75	<0.005	1.5	93.2	3.6	114	0.1	169.2	48.8	1559	7.45	4	0.9	1.8	523	0.1	0.7	<0.1	231	6.23
3346069	Drill Core	4.73	0.006	1.8	143.2	10.6	107	0.2	21.9	29.0	1615	6.85	7	0.7	1.3	1505	0.3	1.5	<0.1	287	6.09
3346070	Rock	1.40	<0.005	<0.1	1.5	0.5	2	<0.1	<0.1	0.4	137	0.11	<1	0.4	<0.1	77	<0.1	<0.1	<0.1	<1	31.84
3346071	Drill Core	3.92	0.016	2.9	205.0	10.9	122	0.3	7.5	32.2	1699	7.00	7	0.8	1.6	901	0.3	1.1	<0.1	282	5.42
3346072	Drill Core	4.04	0.006	1.6	171.6	11.3	107	0.2	7.5	29.4	1596	6.83	5	0.5	1.2	891	0.2	1.1	<0.1	279	5.93
3346073	Drill Core	4.53	0.005	1.6	181.9	9.0	113	0.2	8.2	32.1	1599	6.89	4	0.7	1.4	801	0.2	0.8	<0.1	300	5.80
3346074	Drill Core	4.11	0.006	2.3	160.1	12.7	110	0.2	7.9	30.6	1663	6.88	6	0.6	1.2	762	0.3	0.9	<0.1	304	5.95
3346075	Drill Core	4.21	0.006	2.3	244.3	16.4	106	0.3	8.2	32.7	1629	6.84	4	0.7	1.6	855	0.2	1.1	<0.1	287	5.57
3346076	Drill Core	2.90	0.010	1.7	191.8	12.6	99	0.2	8.7	30.7	1650	6.97	6	0.6	1.3	704	0.2	0.8	<0.1	292	5.11
3346077	Drill Core	2.93	0.017	1.8	181.4	9.0	99	0.2	8.8	31.0	1610	6.93	5	0.3	0.8	689	0.2	0.9	<0.1	293	5.16
3346078	Drill Core	2.37	0.020	13.1	164.4	19.1	121	0.3	8.7	40.1	1572	6.79	11	0.4	0.6	799	0.2	1.3	0.2	280	5.08
3346079	Drill Core	4.21	0.009	1.9	164.5	13.1	111	0.2	8.6	28.2	1726	7.08	7	0.2	0.5	1215	0.4	1.6	<0.1	302	6.03
3346080	Rock Pulp	0.13	0.649	329.6	5168.4	20.8	73	1.2	34.3	17.8	539	4.69	60	4.4	16.0	361	0.7	3.2	1.4	114	2.54
3346081	Drill Core	2.02	0.008	1.2	102.8	17.2	107	0.1	27.4	27.7	1490	5.99	4	0.4	0.9	831	0.1	0.6	<0.1	236	6.08
3346082	Drill Core	4.45	0.007	1.3	148.5	9.6	102	0.2	8.3	31.1	1675	7.12	7	0.3	0.6	904	0.2	1.2	<0.1	302	6.17
3346083	Drill Core	4.38	0.005	2.1	167.6	11.7	123	0.2	8.9	32.4	1827	7.11	6	0.4	0.7	820	0.3	1.0	<0.1	315	6.37
3346084	Drill Core	4.47	0.008	1.8	181.4	9.1	119	0.2	8.3	31.8	1732	6.88	5	0.5	1.0	756	0.2	1.1	<0.1	302	6.00
3346085	Drill Core	5.59	0.005	1.6	191.1	9.3	117	0.2	8.9	33.4	1778	7.23	6	0.6	1.1	861	0.1	1.2	<0.1	314	5.88
3346086	Drill Core	1.87	0.009	1.6	190.0	18.3	103	0.3	7.6	29.4	1532	6.34	4	1.3	1.2	544	0.3	0.6	0.2	326	4.81
3346087	Drill Core	4.34	0.008	1.8	208.3	15.9	99	0.2	9.4	32.2	1754	7.33	4	0.7	1.4	871	0.1	0.9	<0.1	338	6.20
3346088	Drill Core	3.07	0.020	3.1	211.8	19.6	100	0.3	8.6	32.2	1490	6.75	4	1.3	1.6	584	0.3	0.6	0.2	377	5.84
3346089	Drill Core	2.46	0.012	2.6	222.7	16.3	86	0.2	8.6	31.0	1218	6.64	5	1.0	1.1	748	0.2	0.6	0.2	370	5.36
3346090	Rock	1.30	<0.005	0.2	2.3	0.6	3	<0.1	2.5	0.9	144	0.18	3	0.3	<0.1	74	<0.1	<0.1	<0.1	5	30.81

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346061	Drill Core	0.167	8.8	5	2.44	551	0.440	8.60	1.734	5.55	0.6	23.3	18	0.6	14.6	5.3	0.3	3	17	48.7	1.5
3346062	Drill Core	0.165	8.9	5	2.37	675	0.478	8.36	1.937	4.98	0.5	21.8	17	0.6	15.5	5.6	0.3	2	19	42.7	1.2
3346063	Drill Core	0.158	7.0	5	2.24	1220	0.450	8.18	2.495	2.71	0.5	19.8	16	0.5	13.7	4.3	0.2	<1	17	18.5	0.2
3346064	Drill Core	0.156	7.9	5	2.36	1320	0.470	8.68	2.642	2.74	0.5	20.4	17	0.6	14.1	3.8	0.2	<1	17	21.4	0.1
3346065	Drill Core	0.160	9.0	5	2.33	1446	0.463	8.36	2.316	3.69	0.4	17.9	18	0.5	14.6	4.8	0.2	2	18	28.5	0.6
3346066	Drill Core	0.154	8.8	5	2.44	1277	0.459	8.75	2.314	3.41	0.4	14.5	17	0.5	14.5	4.4	0.2	<1	17	27.3	0.7
3346067	Drill Core	0.178	7.3	317	6.04	799	0.302	5.86	1.150	3.44	0.5	24.1	15	0.5	10.5	2.0	<0.1	1	26	39.8	0.1
3346068	Drill Core	0.191	8.5	344	6.54	867	0.335	6.15	1.227	3.43	0.6	27.0	15	0.5	11.1	2.1	0.1	1	30	41.1	<0.1
3346069	Drill Core	0.175	9.7	37	2.79	1308	0.420	8.16	2.273	2.51	0.7	17.3	19	0.6	14.9	3.5	0.2	1	18	18.7	0.4
3346070	Rock	0.007	1.4	2	2.39	15	0.006	0.13	0.080	0.01	<0.1	2.4	<1	<0.1	2.8	0.6	<0.1	<1	<1	1.2	<0.1
3346071	Drill Core	0.165	10.0	6	2.37	1207	0.509	8.48	2.488	3.09	0.7	22.5	20	0.6	15.5	4.9	0.3	<1	19	25.4	0.8
3346072	Drill Core	0.150	8.0	5	2.36	1274	0.477	8.41	2.475	2.54	0.4	20.9	16	0.5	13.8	4.4	0.2	1	16	20.9	0.2
3346073	Drill Core	0.184	9.7	7	2.46	1557	0.484	8.57	2.362	3.21	0.3	24.6	19	0.6	15.7	4.8	0.3	2	18	25.0	0.4
3346074	Drill Core	0.178	9.8	7	2.41	1583	0.432	8.38	2.405	2.84	0.3	21.2	20	0.6	15.1	4.7	0.2	2	17	19.0	0.5
3346075	Drill Core	0.186	10.3	8	2.45	1525	0.472	8.23	2.429	2.93	0.5	24.9	21	0.7	17.2	5.9	0.3	1	19	22.8	0.4
3346076	Drill Core	0.166	9.4	7	2.44	1603	0.438	8.28	2.340	3.52	0.4	22.3	18	0.6	15.7	4.6	0.2	1	18	24.6	0.9
3346077	Drill Core	0.159	8.8	7	2.53	1452	0.471	8.39	2.368	3.46	0.4	16.6	17	0.7	14.5	4.1	0.2	<1	19	23.4	0.6
3346078	Drill Core	0.152	8.3	7	2.48	747	0.490	8.11	2.093	3.78	0.5	13.9	16	0.6	13.6	4.6	0.2	<1	19	19.1	1.4
3346079	Drill Core	0.181	9.1	7	2.58	1540	0.476	8.50	2.373	2.50	0.5	13.6	18	0.5	15.3	4.0	0.2	<1	19	15.0	0.2
3346080	Rock Pulp	0.105	29.3	65	1.40	806	0.489	7.32	2.043	3.30	3.7	80.8	58	3.5	23.0	19.7	1.4	3	12	30.2	0.7
3346081	Drill Core	0.172	9.1	83	3.17	1406	0.443	7.62	2.547	2.95	0.8	29.9	18	0.7	15.3	5.8	0.3	1	23	26.3	0.4
3346082	Drill Core	0.180	9.1	7	2.57	2024	0.478	8.61	2.504	2.53	0.5	12.3	18	0.5	15.4	2.7	0.1	<1	19	18.2	0.3
3346083	Drill Core	0.183	9.7	7	2.61	2000	0.517	8.41	2.327	3.10	0.5	11.2	19	0.5	15.3	2.6	0.2	<1	20	30.1	0.6
3346084	Drill Core	0.165	9.2	7	2.58	1659	0.473	8.22	1.928	4.06	0.5	14.4	18	0.5	15.5	3.0	0.2	<1	20	31.2	0.7
3346085	Drill Core	0.185	9.9	7	2.70	1274	0.478	8.53	2.340	3.39	0.7	18.0	19	0.5	16.5	3.0	0.1	1	20	32.6	0.5
3346086	Drill Core	0.165	7.5	6	2.29	163	0.387	7.23	1.485	4.23	0.5	19.2	15	0.5	13.5	4.6	0.1	5	18	40.2	1.7
3346087	Drill Core	0.167	10.1	7	2.72	877	0.480	8.57	2.159	3.30	0.4	24.0	19	0.6	16.3	3.7	0.2	1	21	29.9	0.5
3346088	Drill Core	0.179	8.6	7	2.47	240	0.438	7.70	1.697	5.11	0.4	24.9	17	0.7	15.7	5.5	0.2	5	19	36.3	1.8
3346089	Drill Core	0.160	8.0	7	2.40	135	0.378	7.93	1.743	4.89	0.4	16.5	16	1.0	13.9	5.0	0.2	5	18	40.7	2.4
3346090	Rock	0.007	1.1	4	2.28	25	0.009	0.18	0.051	0.06	<0.1	1.8	<1	0.1	2.2	0.3	<0.1	<1	<1	1.9	<0.1

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346061	Drill Core	137.9	0.8	0.05	<0.005	<1	1.0	0.7	
3346062	Drill Core	134.3	0.7	<0.05	0.018	1	0.7	0.6	
3346063	Drill Core	43.6	0.8	<0.05	0.013	<1	0.8	<0.5	
3346064	Drill Core	51.6	0.7	0.06	0.011	<1	1.4	<0.5	
3346065	Drill Core	82.9	0.7	<0.05	0.013	<1	0.7	<0.5	
3346066	Drill Core	74.6	0.5	<0.05	<0.005	<1	0.5	<0.5	
3346067	Drill Core	130.1	0.8	<0.05	<0.005	<1	2.7	0.6	
3346068	Drill Core	136.9	0.9	<0.05	<0.005	<1	2.6	0.7	
3346069	Drill Core	44.1	0.7	<0.05	<0.005	<1	0.8	<0.5	
3346070	Rock	0.4	0.1	<0.05	<0.005	<1	4.5	<0.5	
3346071	Drill Core	70.5	0.8	0.06	<0.005	<1	0.8	<0.5	
3346072	Drill Core	49.8	0.7	0.06	<0.005	<1	1.0	<0.5	
3346073	Drill Core	72.9	0.8	<0.05	<0.005	<1	0.9	<0.5	
3346074	Drill Core	59.2	0.7	0.06	<0.005	<1	0.6	<0.5	
3346075	Drill Core	71.4	0.9	0.06	<0.005	<1	1.0	<0.5	
3346076	Drill Core	88.1	0.8	<0.05	<0.005	<1	0.8	<0.5	
3346077	Drill Core	83.1	0.7	<0.05	<0.005	<1	0.6	<0.5	
3346078	Drill Core	74.4	0.6	<0.05	0.032	1	0.9	<0.5	
3346079	Drill Core	41.3	0.6	0.05	<0.005	<1	1.2	<0.5	
3346080	Rock Pulp	172.0	2.3	0.10	0.233	2	0.6	1.0	
3346081	Drill Core	59.4	1.8	<0.05	<0.005	<1	2.1	<0.5	
3346082	Drill Core	43.4	0.5	0.06	<0.005	<1	0.8	<0.5	
3346083	Drill Core	74.1	0.5	0.08	<0.005	<1	1.4	<0.5	
3346084	Drill Core	113.7	0.6	0.06	<0.005	<1	0.9	0.5	
3346085	Drill Core	98.1	0.7	<0.05	<0.005	<1	0.8	<0.5	
3346086	Drill Core	115.1	0.6	0.05	<0.005	2	0.7	0.5	
3346087	Drill Core	82.5	0.8	0.06	<0.005	<1	1.4	<0.5	
3346088	Drill Core	132.5	0.8	<0.05	0.007	2	1.3	0.7	
3346089	Drill Core	125.3	0.6	<0.05	<0.005	2	0.5	0.6	
3346090	Rock	1.6	<0.1	<0.05	<0.005	<1	6.7	<0.5	

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346091	Drill Core	2.05	0.007	1.4	171.1	7.8	91	0.2	7.6	27.9	1434	6.50	5	0.8	0.8	791	0.2	0.7	0.1	353	5.73
3346092	Drill Core	4.35	0.012	2.3	286.3	51.9	292	0.4	8.8	31.1	2027	6.71	14	1.1	2.1	609	2.0	1.3	<0.1	354	5.60
3346093	Drill Core	3.96	0.022	4.1	148.0	43.7	272	0.4	7.8	28.0	2170	6.82	20	1.8	2.2	301	1.9	1.6	0.5	307	4.51
3346094	Drill Core	4.56	0.028	2.2	155.4	19.4	216	0.3	8.5	31.8	2465	7.23	32	1.3	2.3	317	0.3	1.7	0.4	304	4.47
3346095	Core DUP		0.028	1.8	145.3	18.8	204	0.3	7.9	29.6	2422	7.11	28	1.3	2.2	315	0.4	1.8	0.3	300	4.42
3346096	Drill Core	4.24	0.025	1.3	154.1	35.2	259	0.6	7.1	28.7	2644	6.67	20	1.4	1.4	360	1.7	1.3	0.6	377	5.06
3346097	Drill Core	2.42	0.035	1.5	132.5	25.3	210	0.5	7.6	28.5	2817	7.34	28	0.9	0.6	284	0.5	1.4	1.2	354	4.87
3346098	Drill Core	3.66	0.061	1.0	178.0	21.1	156	0.4	6.7	28.3	2641	7.09	22	1.2	1.1	331	0.8	1.4	0.9	427	5.64
3346099	Drill Core	3.44	0.082	1.4	224.4	30.0	211	0.6	7.8	32.3	1928	8.39	40	1.4	1.1	223	0.8	1.3	2.6	382	3.18
3346100	Rock Pulp	0.13	0.680	311.3	5385.2	21.7	85	0.7	39.9	15.8	553	5.03	25	4.6	16.8	317	0.7	3.6	0.6	126	2.57
3346101	Drill Core	3.77	0.032	13.6	238.4	33.2	251	0.5	8.4	32.0	2443	7.71	35	2.4	1.0	391	0.3	1.4	1.3	365	4.11
3346102	Drill Core	3.15	0.011	6.4	229.8	11.2	143	0.3	8.7	33.6	1696	6.53	7	1.7	1.3	508	0.2	0.7	0.1	310	5.12
3346103	Drill Core	2.84	0.006	1.2	105.2	8.8	115	<0.1	8.1	27.3	1701	6.38	7	0.9	2.1	647	<0.1	1.1	<0.1	287	5.96
3346104	Drill Core	1.21	0.033	45.6	203.6	86.1	146	0.6	8.9	31.2	1122	6.35	12	2.8	0.7	371	0.8	1.0	0.7	289	4.34
3346105	Drill Core	4.47	0.009	3.0	116.6	7.5	106	0.1	8.0	31.1	1750	6.90	6	0.7	1.0	788	0.1	1.4	<0.1	344	5.49
3346106	Drill Core	4.40	0.018	1.3	116.1	8.1	108	0.2	8.6	35.5	1880	7.12	10	0.9	1.7	709	0.1	1.8	<0.1	331	5.53
3346107	Drill Core	4.27	0.020	1.9	261.7	7.1	91	0.3	9.1	34.9	1777	7.31	8	0.7	1.8	989	0.1	1.5	<0.1	313	6.38
3346108	Drill Core	2.12	0.085	183.9	115.2	43.1	116	0.9	6.5	22.1	1137	7.81	64	45.0	1.0	191	0.8	1.5	3.5	406	2.71
3346109	Drill Core	4.10	0.180	11.1	148.3	41.3	62	2.4	3.1	14.7	904	6.94	59	5.3	0.4	122	0.7	2.7	3.1	263	3.38
3346110	Rock																				
3346111	Drill Core	3.68	0.077	28.5	95.2	35.4	265	0.6	6.7	29.1	1751	8.75	68	17.7	0.9	207	4.7	2.4	3.3	398	3.71
3346112	Drill Core	3.64	0.029	1.6	170.2	16.9	156	0.5	8.9	33.2	2046	7.23	18	0.8	0.9	529	0.4	1.4	0.7	366	4.88
3346113	Drill Core	4.67	0.048	5.3	171.3	23.3	168	1.2	8.2	29.8	1980	7.60	36	1.0	0.9	446	0.8	1.8	1.6	371	3.82
3346114	Drill Core	2.01	0.080	29.8	113.5	42.3	114	2.3	4.6	19.6	1759	5.72	37	18.7	1.1	648	0.7	1.8	2.0	374	6.59
3346115	Drill Core	4.71	0.009	1.4	168.9	11.3	127	0.3	11.3	31.4	1821	6.97	6	1.0	1.4	657	0.1	1.0	<0.1	364	6.58
3346116	Rock Pulp	0.11	1.499	267.4	>10000	19.1	89	2.3	22.3	13.4	744	5.04	7	1.1	3.6	449	0.8	2.7	0.4	92	2.00
3346117	Drill Core	2.98	0.015	6.6	142.5	35.6	147	0.3	12.6	35.8	1714	6.91	15	1.2	1.1	422	0.8	1.2	0.3	384	6.17

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346091	Drill Core	0.157	8.8	7	2.43	392	0.403	7.76	1.754	4.22	0.4	17.7	17	0.7	15.1	4.1	0.1	5	18	33.7	1.3
3346092	Drill Core	0.176	9.6	6	3.05	422	0.429	7.91	0.968	6.28	0.5	25.7	19	0.8	16.1	5.5	0.3	3	20	69.5	2.6
3346093	Drill Core	0.175	8.3	6	2.91	82	0.416	7.23	1.077	6.36	1.2	26.2	17	0.6	14.0	4.8	0.2	3	18	48.5	3.3
3346094	Drill Core	0.164	8.5	7	3.14	97	0.488	7.71	0.780	6.58	1.0	28.2	18	0.8	15.4	5.6	0.3	3	19	61.7	3.2
3346095	Core DUP	0.171	8.2	6	3.08	96	0.493	7.54	0.744	6.39	0.9	27.6	18	0.8	15.7	5.3	0.3	2	20	61.0	3.2
3346096	Drill Core	0.158	8.3	6	3.00	142	0.416	7.06	0.933	6.39	0.8	18.2	17	0.8	13.6	5.9	0.3	8	17	63.7	2.8
3346097	Drill Core	0.156	7.6	6	3.11	58	0.440	7.21	1.115	5.41	0.9	11.2	15	0.8	13.5	4.1	0.2	5	19	63.4	4.2
3346098	Drill Core	0.127	6.8	6	2.68	52	0.387	6.26	1.411	4.57	0.7	16.9	13	0.9	12.4	6.9	0.2	9	15	26.8	3.4
3346099	Drill Core	0.164	5.6	6	2.54	32	0.455	7.19	0.933	7.43	1.0	17.4	14	0.8	13.2	4.5	0.2	5	18	41.5	5.6
3346100	Rock Pulp	0.099	29.5	69	1.53	1003	0.470	7.33	2.029	3.36	4.3	65.9	60	3.4	22.5	16.5	1.2	3	13	33.8	0.6
3346101	Drill Core	0.205	7.9	6	2.83	107	0.491	7.79	0.762	6.81	0.9	14.1	17	0.7	14.7	4.5	0.2	4	18	74.2	3.3
3346102	Drill Core	0.154	8.4	8	2.62	571	0.460	8.18	1.542	6.50	0.6	15.4	16	0.8	14.8	4.6	0.2	2	19	58.2	1.7
3346103	Drill Core	0.138	10.2	7	2.37	975	0.407	8.10	2.099	4.27	0.5	31.3	19	0.9	16.7	6.9	0.4	3	17	26.1	0.6
3346104	Drill Core	0.131	5.7	7	1.93	39	0.366	7.22	1.099	7.50	0.4	16.6	13	0.9	13.0	5.9	0.2	4	17	32.9	5.0
3346105	Drill Core	0.146	7.9	7	2.68	868	0.523	8.78	2.063	3.46	0.3	19.4	16	0.6	14.7	4.1	0.2	<1	20	33.1	0.6
3346106	Drill Core	0.190	9.0	8	2.69	784	0.559	8.43	2.210	3.12	0.7	19.7	18	0.6	15.8	3.5	0.2	1	22	27.9	1.5
3346107	Drill Core	0.167	9.3	7	2.58	945	0.510	8.49	2.217	2.61	0.7	21.8	18	0.5	16.2	3.8	0.2	<1	20	15.9	0.8
3346108	Drill Core	0.121	2.2	6	1.85	65	0.281	5.99	0.860	6.50	1.0	13.0	6	0.8	7.8	12.6	<0.1	10	12	27.5	7.1
3346109	Drill Core	0.055	1.6	5	0.84	70	0.139	3.08	0.622	3.15	0.4	5.7	4	0.8	4.8	1.8	<0.1	3	8	8.8	7.1
3346110	Rock																				
3346111	Drill Core	0.129	3.1	6	2.33	16	0.332	6.09	0.917	5.88	0.7	10.9	8	0.7	8.3	6.0	<0.1	9	16	36.9	7.7
3346112	Drill Core	0.190	6.9	6	2.59	103	0.484	8.38	1.151	6.31	0.6	13.1	15	0.4	14.6	2.6	0.2	1	19	54.6	3.5
3346113	Drill Core	0.186	5.4	6	2.74	42	0.390	6.96	0.890	5.49	0.6	13.0	12	0.5	11.9	2.6	0.1	5	17	49.2	4.7
3346114	Drill Core	0.120	4.1	4	1.81	29	0.211	4.38	0.522	4.68	0.3	12.6	9	0.7	10.0	4.4	<0.1	10	12	45.6	4.5
3346115	Drill Core	0.125	7.6	9	3.15	688	0.412	7.67	1.154	5.30	0.3	22.3	15	0.5	15.4	4.1	0.2	2	22	46.8	1.8
3346116	Rock Pulp	0.069	12.9	43	0.91	117	0.288	7.22	2.374	1.84	1.6	32.3	26	2.8	12.8	6.3	0.4	1	10	16.7	1.3
3346117	Drill Core	0.088	6.8	10	2.85	114	0.399	7.12	0.933	5.65	0.5	15.7	14	0.6	14.1	4.7	0.2	3	22	37.9	2.9

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346091	Drill Core	107.0	0.7	<0.05	<0.005	<1	1.2	<0.5	
3346092	Drill Core	181.8	0.8	0.08	<0.005	3	1.0	1.0	
3346093	Drill Core	184.1	0.8	0.16	<0.005	3	0.8	1.0	
3346094	Drill Core	194.6	0.7	0.06	<0.005	2	0.7	1.1	
3346095	Core DUP	196.0	0.7	0.06	<0.005	3	1.0	1.1	
3346096	Drill Core	153.4	0.6	0.07	<0.005	4	1.2	1.1	
3346097	Drill Core	140.3	0.5	0.10	<0.005	3	0.9	1.0	
3346098	Drill Core	86.5	0.6	0.08	<0.005	3	1.0	<0.5	
3346099	Drill Core	137.6	0.7	0.05	<0.005	4	0.6	1.0	
3346100	Rock Pulp	165.6	2.1	0.08	<0.005	3	0.6	0.9	
3346101	Drill Core	176.1	0.5	0.06	0.028	2	0.9	1.4	
3346102	Drill Core	154.6	0.6	0.05	0.011	2	1.2	1.1	
3346103	Drill Core	86.5	1.2	<0.05	<0.005	<1	1.2	<0.5	
3346104	Drill Core	149.7	0.6	<0.05	0.115	5	1.0	0.9	
3346105	Drill Core	92.3	0.8	<0.05	<0.005	<1	1.4	<0.5	
3346106	Drill Core	69.3	0.8	<0.05	<0.005	<1	1.1	<0.5	
3346107	Drill Core	62.4	1.1	0.06	<0.005	<1	1.6	<0.5	
3346108	Drill Core	127.3	0.5	<0.05	0.540	6	0.8	0.8	
3346109	Drill Core	53.2	0.4	<0.05	0.034	6	1.6	<0.5	
3346110	Rock								
3346111	Drill Core	128.2	0.4	0.08	0.078	4	0.7	0.8	
3346112	Drill Core	185.7	0.5	0.07	0.006	2	0.8	1.1	
3346113	Drill Core	143.8	0.5	0.06	0.008	4	0.7	1.0	
3346114	Drill Core	102.0	0.4	<0.05	0.082	3	1.1	0.6	
3346115	Drill Core	114.3	0.7	<0.05	<0.005	1	1.4	1.0	
3346116	Rock Pulp	50.2	1.0	0.15	0.139	3	<0.5	<0.5	1.34
3346117	Drill Core	114.6	0.5	0.07	0.013	2	1.4	1.0	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3345857	Drill Core	3.20	<0.005	0.2	314.7	5.6	104	0.4	14.2	42.5	1680	8.64	6	0.2	0.4	1123	0.2	2.0	<0.1	396	7.13
REP 3345857	QC			0.2	307.7	5.4	102	0.4	14.0	41.5	1657	8.40	6	0.2	0.4	1094	0.2	2.0	<0.1	388	6.88
3345891	Drill Core	5.03	<0.005	0.4	550.9	4.5	125	0.6	20.7	58.6	2040	11.28	7	0.2	0.3	791	0.2	1.0	<0.1	611	9.30
REP 3345891	QC			0.4	539.1	4.6	124	0.6	20.2	60.2	2086	11.43	8	0.2	0.3	829	0.2	1.1	<0.1	613	9.41
3345898	Drill Core	4.66	0.007	0.2	223.3	10.0	129	0.3	13.4	51.6	1772	10.13	10	0.2	0.3	820	0.1	1.3	<0.1	486	8.64
REP 3345898	QC		0.006																		
3345913	Drill Core	4.24	<0.005	0.3	204.6	7.7	122	0.4	25.1	56.5	1747	11.62	13	0.1	0.3	774	0.2	2.0	<0.1	621	9.60
REP 3345913	QC		<0.005																		
3345926	Drill Core	3.44	0.014	1.8	121.9	17.2	85	0.4	4.4	18.2	2051	4.22	50	1.8	2.7	350	0.1	3.1	<0.1	215	4.95
REP 3345926	QC			1.7	126.6	18.1	93	0.4	4.6	18.0	2152	4.45	50	2.0	3.0	379	0.1	3.2	<0.1	232	5.16
3345961	Drill Core	4.63	0.014	10.1	74.7	6.2	83	0.2	38.0	42.5	1309	7.47	16	0.7	1.0	457	0.1	1.9	0.3	347	5.46
REP 3345961	QC			10.0	74.7	6.7	86	0.2	38.6	43.0	1342	7.66	14	0.7	1.0	462	0.1	2.0	0.3	354	5.68
REP 3345972	QC		<0.005																		
3345988	Drill Core	4.97	0.007	0.5	13.1	7.7	82	<0.1	26.6	53.4	1446	9.30	13	0.1	0.2	1495	0.1	4.2	<0.1	494	9.93
REP 3345988	QC		<0.005																		
3345996	Drill Core	5.01	0.005	0.5	24.1	4.6	134	<0.1	54.3	73.5	1880	15.55	10	0.2	0.4	688	0.1	2.9	<0.1	854	9.95
REP 3345996	QC			0.5	24.7	4.6	138	0.1	53.8	71.3	1826	14.94	9	0.2	0.4	703	0.1	2.9	<0.1	842	9.93
3346031	Drill Core	4.53	0.005	0.7	37.6	6.2	107	<0.1	52.6	66.7	1666	12.90	7	0.1	0.3	562	0.1	2.8	<0.1	656	9.61
REP 3346031	QC			0.6	37.6	6.6	102	<0.1	53.9	64.8	1670	12.85	4	0.2	0.3	548	<0.1	2.9	<0.1	664	9.64
3346048	Drill Core	2.87	0.011	0.6	148.4	10.9	98	0.2	72.7	38.3	1400	6.57	6	1.4	2.4	812	0.1	1.5	0.2	279	6.14
REP 3346048	QC		0.010																		
3346064	Drill Core	4.20	0.006	2.9	212.4	6.5	95	0.2	7.3	30.3	1585	6.85	5	0.5	1.1	957	0.2	1.0	<0.1	287	5.53
REP 3346064	QC		0.008																		
3346067	Drill Core	3.17	0.007	1.3	139.4	4.3	102	0.2	156.6	49.5	1413	6.86	4	0.9	1.6	484	0.1	0.5	<0.1	225	6.57
REP 3346067	QC			1.4	140.3	4.5	100	0.2	155.9	46.9	1422	6.84	4	0.9	1.6	454	0.1	0.4	<0.1	225	6.59
3346102	Drill Core	3.15	0.011	6.4	229.8	11.2	143	0.3	8.7	33.6	1696	6.53	7	1.7	1.3	508	0.2	0.7	0.1	310	5.12
REP 3346102	QC			6.2	226.4	11.1	151	0.2	8.5	32.8	1693	6.51	7	1.6	1.2	515	<0.1	0.8	<0.1	311	5.11
Core Reject Duplicates																					

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3345857	Drill Core	0.251	7.7	8	3.08	603	0.544	8.02	1.769	1.46	0.3	15.6	16	0.5	14.5	1.8	0.1	<1	24	26.0	<0.1
REP 3345857	QC	0.246	6.9	8	2.96	585	0.531	7.65	1.763	1.44	0.2	15.3	15	0.5	13.5	1.8	0.1	<1	23	25.2	<0.1
3345891	Drill Core	0.052	3.4	28	4.32	324	0.640	7.33	1.052	1.23	0.2	16.9	8	0.6	14.0	0.9	<0.1	<1	38	32.7	0.2
REP 3345891	QC	0.052	3.5	30	4.44	325	0.649	7.43	0.983	1.28	0.2	17.9	8	0.6	14.6	1.1	<0.1	<1	42	32.2	0.2
3345898	Drill Core	0.213	5.4	6	3.61	371	0.577	8.23	1.368	1.36	0.3	11.3	11	0.5	13.1	1.0	<0.1	1	27	41.7	0.3
REP 3345898	QC																				
3345913	Drill Core	0.096	3.5	10	3.87	342	0.680	7.31	0.631	1.20	0.3	12.8	8	0.6	11.7	1.1	<0.1	<1	36	23.9	<0.1
REP 3345913	QC																				
3345926	Drill Core	0.174	12.6	3	1.17	179	0.311	7.74	0.912	5.62	1.5	52.2	26	0.8	14.4	7.3	0.4	2	9	34.0	1.9
REP 3345926	QC	0.177	14.2	3	1.23	164	0.325	8.11	0.980	5.45	1.7	52.8	29	0.8	15.3	7.8	0.4	2	9	34.1	1.9
3345961	Drill Core	0.073	5.7	41	4.05	802	0.394	7.48	1.597	3.22	0.9	15.0	11	0.6	10.7	2.2	0.1	1	31	48.4	1.4
REP 3345961	QC	0.075	5.3	42	4.20	740	0.414	7.70	1.665	3.34	0.8	15.4	11	0.7	11.0	2.3	0.1	<1	33	50.2	1.4
REP 3345972	QC																				
3345988	Drill Core	0.016	2.1	9	4.27	211	0.473	7.81	0.715	1.11	0.4	12.2	5	0.5	7.9	0.6	<0.1	<1	36	31.3	0.2
REP 3345988	QC																				
3345996	Drill Core	0.020	2.5	32	5.56	120	0.765	4.70	0.668	0.41	0.4	18.2	6	0.7	11.6	1.2	<0.1	<1	62	20.7	0.3
REP 3345996	QC	0.018	2.6	33	5.44	120	0.738	4.57	0.652	0.41	0.4	18.9	6	0.7	11.9	1.2	<0.1	<1	65	21.5	0.3
3346031	Drill Core	0.015	2.7	15	5.69	154	0.710	4.62	0.531	0.56	0.6	17.8	6	0.8	12.8	1.0	<0.1	<1	64	19.3	<0.1
REP 3346031	QC	0.016	2.6	16	5.68	145	0.709	4.65	0.539	0.57	0.6	17.3	6	0.7	12.7	1.0	<0.1	<1	64	20.4	<0.1
3346048	Drill Core	0.181	11.4	157	4.42	1115	0.392	7.09	1.684	3.03	0.6	27.0	21	0.6	13.3	4.1	0.2	1	26	33.0	0.4
REP 3346048	QC																				
3346064	Drill Core	0.156	7.9	5	2.36	1320	0.470	8.68	2.642	2.74	0.5	20.4	17	0.6	14.1	3.8	0.2	<1	17	21.4	0.1
REP 3346064	QC																				
3346067	Drill Core	0.178	7.3	317	6.04	799	0.302	5.86	1.150	3.44	0.5	24.1	15	0.5	10.5	2.0	<0.1	1	26	39.8	0.1
REP 3346067	QC	0.169	7.4	315	6.08	766	0.315	5.78	1.156	3.45	0.5	24.5	14	0.5	10.2	1.9	0.1	1	26	38.2	0.1
3346102	Drill Core	0.154	8.4	8	2.62	571	0.460	8.18	1.542	6.50	0.6	15.4	16	0.8	14.8	4.6	0.2	2	19	58.2	1.7
REP 3346102	QC	0.157	8.8	8	2.60	663	0.447	8.12	1.543	6.50	0.7	16.7	17	0.7	15.5	4.8	0.3	2	18	52.8	1.7
Core Reject Duplicates																					

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
Pulp Duplicates									
3345857	Drill Core	30.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
REP 3345857	QC	28.9	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3345891	Drill Core	44.2	0.8	0.07	<0.005	<1	1.0	<0.5	
REP 3345891	QC	46.1	0.8	0.07	<0.005	<1	1.8	<0.5	
3345898	Drill Core	45.2	0.5	<0.05	<0.005	<1	1.5	<0.5	
REP 3345898	QC								
3345913	Drill Core	34.2	0.7	0.07	<0.005	<1	2.0	<0.5	
REP 3345913	QC								
3345926	Drill Core	141.5	1.3	<0.05	<0.005	1	<0.5	0.6	
REP 3345926	QC	153.1	1.3	0.05	<0.005	<1	0.5	0.6	
3345961	Drill Core	87.9	0.6	0.05	0.005	1	2.4	0.5	
REP 3345961	QC	91.3	0.7	<0.05	0.007	1	1.2	0.6	
REP 3345972	QC								
3345988	Drill Core	35.4	0.6	<0.05	<0.005	<1	1.6	<0.5	
REP 3345988	QC								
3345996	Drill Core	11.9	0.9	0.08	<0.005	<1	2.6	<0.5	
REP 3345996	QC	12.7	0.9	0.08	<0.005	<1	3.3	<0.5	
3346031	Drill Core	20.1	0.9	0.08	<0.005	<1	0.8	<0.5	
REP 3346031	QC	19.5	0.8	0.10	<0.005	<1	0.7	<0.5	
3346048	Drill Core	96.2	1.1	0.05	<0.005	<1	1.0	<0.5	
REP 3346048	QC								
3346064	Drill Core	51.6	0.7	0.06	0.011	<1	1.4	<0.5	
REP 3346064	QC								
3346067	Drill Core	130.1	0.8	<0.05	<0.005	<1	2.7	0.6	
REP 3346067	QC	125.7	0.7	<0.05	<0.005	<1	2.6	0.7	
3346102	Drill Core	154.6	0.6	0.05	0.011	2	1.2	1.1	
REP 3346102	QC	137.8	0.6	<0.05	0.014	2	0.8	1.1	
Core Reject Duplicates									

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Project: MAX
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QUALITY CONTROL REPORT VAN20001118.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3345904	Drill Core	4.96	0.006	1.0	203.8	4.1	134	0.3	25.7	63.5	1944	13.06	9	0.1	0.3	603	0.1	2.2	<0.1	642	8.90
DUP 3345904	QC		<0.005	0.5	186.9	3.9	137	0.2	22.6	67.1	1990	13.95	10	0.1	0.3	651	<0.1	2.2	<0.1	679	9.22
3345938	Drill Core	5.20	0.037	2.0	98.8	10.7	135	0.4	20.8	64.4	1885	9.05	41	0.8	0.2	408	<0.1	4.1	<0.1	525	7.75
DUP 3345938	QC		0.034	2.0	93.6	10.4	132	0.4	20.2	60.9	1897	8.85	40	0.8	0.2	416	<0.1	3.7	<0.1	510	7.79
3345972	Drill Core	4.00	<0.005	0.3	9.3	4.8	118	<0.1	65.1	67.6	1785	14.09	11	0.1	0.2	443	0.1	2.0	<0.1	705	10.33
DUP 3345972	QC		<0.005	0.4	8.6	4.8	122	<0.1	69.4	68.8	1812	14.23	10	0.1	0.3	437	0.2	2.0	<0.1	707	10.48
3346006	Drill Core	3.46	<0.005	0.4	15.9	4.1	133	<0.1	56.5	72.8	1985	13.78	5	0.1	0.3	298	0.2	1.7	<0.1	758	9.74
DUP 3346006	QC		<0.005	0.4	16.4	4.1	136	<0.1	58.9	74.4	2027	14.18	5	0.1	0.2	308	0.2	1.6	<0.1	778	9.86
3346074	Drill Core	4.11	0.006	2.3	160.1	12.7	110	0.2	7.9	30.6	1663	6.88	6	0.6	1.2	762	0.3	0.9	<0.1	304	5.95
DUP 3346074	QC		0.006	2.4	173.5	13.2	121	0.2	8.8	32.1	1686	7.05	5	0.7	1.3	807	0.2	1.0	<0.1	309	5.93
3346108	Drill Core	2.12	0.085	183.9	115.2	43.1	116	0.9	6.5	22.1	1137	7.81	64	45.0	1.0	191	0.8	1.5	3.5	406	2.71
DUP 3346108	QC		0.079	186.6	116.4	42.1	111	0.9	6.2	21.6	1133	7.72	63	46.0	1.0	184	1.0	1.5	3.4	401	2.77
Reference Materials																					
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard			2.5	32.2	26.5	49	<0.1	48.0	8.4	489	6.45	10	3.1	16.5	49	<0.1	0.6	0.4	157	0.27
STD OREAS25A-4A	Standard			2.5	31.4	24.6	41	<0.1	45.0	7.8	477	6.32	9	2.7	14.9	44	<0.1	0.7	0.3	157	0.27
STD OREAS25A-4A	Standard			2.4	33.4	26.9	44	<0.1	45.7	7.8	504	6.67	10	2.9	16.5	48	<0.1	0.6	0.4	162	0.29
STD OREAS25A-4A	Standard			2.5	34.4	25.4	45	<0.1	49.4	8.2	501	6.60	10	2.8	15.6	50	<0.1	0.6	0.4	157	0.29
STD OREAS25A-4A	Standard			2.3	32.3	26.6	47	<0.1	46.6	7.8	499	6.55	9	3.1	17.1	50	<0.1	0.5	0.4	165	0.29
STD OREAS25A-4A	Standard			2.5	31.6	25.0	46	<0.1	44.6	7.7	485	6.47	10	2.7	15.1	46	<0.1	0.6	0.3	157	0.26
STD OREAS25A-4A	Standard			2.3	33.3	25.3	46	<0.1	47.1	7.7	500	6.63	11	2.9	15.6	47	<0.1	0.6	0.4	163	0.30
STD OREAS25A-4A	Standard			2.3	30.4	23.7	43	<0.1	46.0	7.7	488	6.42	9	2.6	15.1	46	<0.1	0.6	0.4	160	0.27
STD OREAS45H	Standard			1.5	786.8	14.0	47	<0.1	437.8	95.6	397	20.51	16	2.0	8.3	30	<0.1	0.6	0.2	271	0.14
STD OREAS45E	Standard			2.5	790.9	18.4	48	0.3	476.7	62.0	570	24.50	16	2.5	13.0	17	<0.1	1.1	0.3	324	0.07
STD OREAS45H	Standard			1.6	794.5	13.5	43	<0.1	451.8	97.0	402	21.46	18	1.7	7.8	30	<0.1	0.7	0.2	273	0.14
STD OREAS45E	Standard			2.5	787.0	17.8	47	0.3	473.0	62.0	572	26.10	17	2.4	12.7	17	<0.1	1.0	0.3	327	0.06
STD OREAS45E	Standard			2.3	780.0	20.7	50	0.3	465.1	62.6	552	24.34	18	2.9	14.7	17	<0.1	0.9	0.4	315	0.06
STD OREAS45H	Standard			1.7	752.6	12.5	44	<0.1	435.2	91.2	395	20.22	18	1.7	7.6	29	<0.1	0.6	0.2	266	0.13
STD OREAS45H	Standard			1.5	817.2	13.4	45	0.1	460.5	99.6	419	20.93	18	1.8	8.0	30	<0.1	0.7	0.2	283	0.14

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Project: MAX
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QUALITY CONTROL REPORT VAN20001118.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
3345904	Drill Core	0.104	3.7	20	4.21	297	0.698	6.91	0.876	1.22	0.5	14.6	8	0.7	13.9	1.2	<0.1	<1	36	27.9	0.1
DUP 3345904	QC	0.095	3.5	16	4.22	287	0.731	6.97	0.809	1.13	0.4	14.5	8	0.6	14.1	1.2	<0.1	<1	39	25.7	0.1
3345938	Drill Core	0.021	2.4	11	4.26	591	0.493	7.59	0.648	3.99	1.4	7.6	5	0.4	8.5	1.1	<0.1	<1	29	56.4	1.9
DUP 3345938	QC	0.020	2.2	11	4.28	580	0.469	7.49	0.631	3.99	1.4	7.6	5	0.5	8.6	1.0	<0.1	<1	29	59.3	1.8
3345972	Drill Core	0.014	2.2	52	6.16	124	0.698	4.18	0.571	0.42	0.3	18.9	5	0.7	11.9	0.8	<0.1	<1	80	24.9	<0.1
DUP 3345972	QC	0.017	2.3	53	6.24	123	0.717	4.19	0.557	0.40	0.2	19.3	5	0.6	11.9	0.9	<0.1	<1	75	25.1	<0.1
3346006	Drill Core	0.019	2.3	18	6.17	207	0.716	4.35	0.608	0.67	0.4	17.6	6	0.7	12.6	0.9	<0.1	<1	73	26.7	<0.1
DUP 3346006	QC	0.019	2.4	19	6.27	214	0.745	4.42	0.639	0.68	0.4	18.4	6	0.7	13.3	1.0	<0.1	<1	74	28.5	<0.1
3346074	Drill Core	0.178	9.8	7	2.41	1583	0.432	8.38	2.405	2.84	0.3	21.2	20	0.6	15.1	4.7	0.2	2	17	19.0	0.5
DUP 3346074	QC	0.183	10.2	8	2.51	1670	0.461	8.47	2.404	2.89	0.3	22.5	20	0.7	16.7	5.2	0.3	2	18	20.3	0.5
3346108	Drill Core	0.121	2.2	6	1.85	65	0.281	5.99	0.860	6.50	1.0	13.0	6	0.8	7.8	12.6	<0.1	10	12	27.5	7.1
DUP 3346108	QC	0.116	1.9	6	1.81	25	0.282	5.75	0.790	6.24	1.0	13.5	6	0.8	7.8	12.6	<0.1	10	13	25.9	7.2
Reference Materials																					
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard	0.048	23.1	119	0.31	150	0.907	8.90	0.139	0.46	1.8	148.8	49	3.9	10.6	18.9	1.4	<1	13	38.5	<0.1
STD OREAS25A-4A	Standard	0.044	19.5	115	0.30	148	0.886	8.41	0.124	0.48	1.9	141.0	44	3.6	9.7	19.4	1.4	1	13	40.0	<0.1
STD OREAS25A-4A	Standard	0.050	23.5	120	0.34	156	0.925	9.14	0.139	0.50	2.0	148.4	50	3.8	10.1	19.5	1.5	<1	13	42.7	<0.1
STD OREAS25A-4A	Standard	0.049	22.5	120	0.34	153	0.906	9.02	0.132	0.49	2.0	150.5	48	3.7	10.7	19.7	1.4	<1	13	39.2	<0.1
STD OREAS25A-4A	Standard	0.047	22.4	115	0.32	150	0.895	8.90	0.138	0.49	1.9	144.5	49	3.9	10.4	18.7	1.4	1	14	37.3	<0.1
STD OREAS25A-4A	Standard	0.050	20.6	116	0.36	146	0.907	8.60	0.139	0.48	1.8	143.8	45	3.8	9.4	18.7	1.4	1	13	40.6	<0.1
STD OREAS25A-4A	Standard	0.051	23.0	112	0.35	161	0.911	9.07	0.130	0.49	1.9	145.7	52	4.5	10.4	20.0	1.4	<1	13	38.8	<0.1
STD OREAS25A-4A	Standard	0.048	22.5	116	0.34	146	0.882	8.60	0.138	0.51	1.7	149.8	48	3.5	9.7	18.1	1.3	<1	13	38.2	<0.1
STD OREAS45H	Standard	0.022	12.8	658	0.23	370	0.893	8.21	0.083	0.20	0.9	126.4	28	2.0	10.9	14.6	1.0	1	59	13.8	<0.1
STD OREAS45E	Standard	0.032	11.8	1075	0.16	269	0.522	6.89	0.056	0.34	1.0	92.4	25	1.3	8.3	6.4	0.5	<1	94	7.9	<0.1
STD OREAS45H	Standard	0.023	13.4	664	0.25	373	0.913	8.20	0.096	0.22	0.9	128.4	26	2.1	10.4	14.7	1.0	1	61	15.3	<0.1
STD OREAS45E	Standard	0.033	11.2	1018	0.16	254	0.542	6.90	0.052	0.34	1.0	96.3	24	1.4	8.4	6.5	0.5	<1	95	6.6	<0.1
STD OREAS45E	Standard	0.031	12.7	1043	0.14	269	0.516	6.81	0.051	0.32	1.0	97.6	27	1.5	8.8	6.5	0.6	<1	91	7.3	<0.1
STD OREAS45H	Standard	0.023	13.8	668	0.26	361	0.851	7.96	0.087	0.20	0.9	127.3	26	2.0	10.3	14.1	0.9	1	60	14.5	<0.1
STD OREAS45H	Standard	0.022	14.0	674	0.26	359	0.886	8.38	0.095	0.21	0.9	127.0	27	2.2	11.0	14.2	0.9	1	62	14.3	<0.1

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BUREAU VERITAS
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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
3345904	Drill Core	43.9	0.7	0.06	<0.005	<1	1.2	<0.5	
DUP 3345904	QC	41.7	0.8	0.08	0.007	<1	1.7	<0.5	
3345938	Drill Core	168.9	0.5	<0.05	<0.005	<1	1.7	1.0	
DUP 3345938	QC	165.0	0.4	<0.05	<0.005	<1	1.2	1.0	
3345972	Drill Core	10.8	0.9	0.07	<0.005	<1	3.9	<0.5	
DUP 3345972	QC	10.6	0.8	0.07	<0.005	<1	3.4	<0.5	
3346006	Drill Core	21.3	0.9	0.08	<0.005	<1	3.3	<0.5	
DUP 3346006	QC	21.3	0.9	0.07	<0.005	<1	3.4	<0.5	
3346074	Drill Core	59.2	0.7	0.06	<0.005	<1	0.6	<0.5	
DUP 3346074	QC	61.7	0.7	<0.05	0.005	<1	1.3	<0.5	
3346108	Drill Core	127.3	0.5	<0.05	0.540	6	0.8	0.8	
DUP 3346108	QC	117.5	0.5	<0.05	0.626	6	0.9	0.9	
Reference Materials									
STD CCU-1E	Standard								23.38
STD OREAS25A-4A	Standard	62.9	4.1	0.14	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	55.7	4.1	0.10	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	63.2	4.3	0.08	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	64.0	4.2	0.11	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	64.9	4.2	0.10	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.8	4.0	0.10	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	57.6	4.4	0.07	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	60.3	4.0	0.08	<0.005	3	<0.5	<0.5	
STD OREAS45H	Standard	24.8	3.5	0.15	<0.005	1	<0.5	<0.5	
STD OREAS45E	Standard	21.5	2.9	0.09	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	25.1	3.6	0.13	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	22.3	2.8	0.07	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	23.8	3.0	0.11	<0.005	3	<0.5	<0.5	
STD OREAS45H	Standard	24.0	3.3	0.12	<0.005	1	<0.5	<0.5	
STD OREAS45H	Standard	23.6	3.6	0.08	<0.005	3	<0.5	<0.5	

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E	Standard			2.3	787.1	18.0	45	0.3	472.4	59.5	567	24.78	15	2.4	12.5	16	<0.1	0.9	0.3	322	0.06
STD OREAS97	Standard																				
STD OXB130	Standard		0.120																		
STD OXB130	Standard		0.122																		
STD OXB130	Standard		0.126																		
STD OXB130	Standard		0.121																		
STD OXB130	Standard		0.125																		
STD OXG141	Standard		0.943																		
STD OXG141	Standard		0.956																		
STD OXG141	Standard		0.926																		
STD OXG141	Standard		0.935																		
STD OXG141	Standard		0.945																		
STD OXN155	Standard		7.933																		
STD OXN155	Standard		7.821																		
STD OXN155	Standard		7.830																		
STD OXN155	Standard		7.487																		
STD OXN155	Standard		7.562																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD CCU-1E Expected																					
STD OREAS97 Expected																					
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS45E	Standard	0.034	11.6	1051	0.17	259	0.521	6.99	0.065	0.36	1.0	94.3	25	1.2	7.7	6.0	0.5	<1	93	6.9	<0.1
STD OREAS97	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD CCU-1E Expected																					
STD OREAS97 Expected																					
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.4	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
STD OREAS45E	Standard	21.7	2.8	0.09	<0.005	2	<0.5	<0.5	
STD OREAS97	Standard								6.40
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OREAS45H Expected		22.5	3.6	0.1		2.02			
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35	
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15	
STD CCU-1E Expected									22.88
STD OREAS97 Expected									6.31
STD OXG141 Expected									
STD OXN155 Expected									
STD OXB130 Expected									
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	0.4	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank																				
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	0.7	3.6	2.3	30	<0.1	0.6	3.3	544	1.86	3	1.3	2.7	192	<0.1	0.1	<0.1	30	1.36
ROCK-VAN	Prep Blank		<0.005	0.7	3.0	2.2	28	<0.1	0.7	3.3	553	1.92	3	1.3	3.0	181	<0.1	0.1	<0.1	30	1.42

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.036	12.8	5	0.45	710	0.180	6.90	3.804	1.57	0.3	47.0	25	0.6	14.3	5.3	0.4	<1	6	2.5	<0.1
ROCK-VAN	Prep Blank	0.035	13.1	5	0.44	679	0.182	6.90	3.904	1.56	0.3	51.5	25	0.7	14.9	5.5	0.4	<1	6	2.4	<0.1

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001118.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								<0.01
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
ROCK-VAN	Prep Blank	31.3	1.6	<0.05	<0.005	<1	<0.5	<0.5	
ROCK-VAN	Prep Blank	30.2	1.8	<0.05	<0.005	<1	<0.5	<0.5	

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 17, 2020
Analysis Start:	July 03, 2020
Report Date:	July 15, 2020
Page:	1 of 10

CERTIFICATE OF ANALYSIS VAN20001119.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_02
P.O. Number	M22165
Number of Samples:	245

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	227	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	6	Split samples by riffle splitter			VAN
PUL85	6	Pulverize to 85% passing 200 mesh			VAN
SLBHP	12	Sort, label and box pulps			VAN
FA430	245	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	245	Environmental disposal charge-Fire assay lead waste			VAN
MA200	245	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	245	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

JEFFREY CANNON
Geochemistry Department Supervisor

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485501	Drill Core	2.19	0.019	0.7	79.9	5.8	67	<0.1	25.7	34.7	1224	7.30	7	0.6	1.4	606	0.1	2.7	<0.1	272	5.94
3485502	Drill Core	1.82	0.057	1.3	74.6	4.6	72	<0.1	26.1	36.4	1351	6.94	5	0.7	1.6	557	<0.1	2.2	<0.1	263	5.31
3485503	Drill Core	3.70	0.055	1.2	75.0	2.6	76	<0.1	26.6	34.4	1328	6.69	4	0.6	1.4	285	<0.1	1.2	<0.1	259	5.88
3485504	Drill Core	3.29	0.019	0.8	78.1	5.2	65	<0.1	26.4	37.5	1409	7.16	6	0.6	1.6	697	<0.1	2.9	<0.1	279	6.22
3485505	Drill Core	3.92	0.022	1.7	65.1	3.6	70	<0.1	25.7	33.8	1375	6.65	5	0.6	1.5	520	<0.1	2.0	<0.1	257	5.81
3485506	Drill Core	3.73	0.017	3.0	90.6	3.4	71	0.1	22.6	32.9	1409	6.71	5	0.6	1.3	378	0.1	1.5	<0.1	262	6.34
3485507	Drill Core	4.82	0.020	3.6	241.4	6.5	102	0.3	28.9	45.4	1676	8.72	4	0.5	0.8	297	0.3	2.1	<0.1	358	6.58
3485508	Drill Core	5.17	0.036	2.1	212.1	5.6	95	0.3	19.4	39.7	1627	8.25	7	0.4	0.7	623	0.3	4.6	<0.1	362	7.48
3485509	Drill Core	5.08	0.041	1.3	227.7	5.3	90	0.2	18.0	41.1	1429	7.98	10	0.4	0.7	637	0.1	6.3	<0.1	283	6.28
3485510	Rock	1.35	<0.005	<0.1	1.4	0.5	2	<0.1	0.8	0.4	136	0.11	2	0.1	<0.1	73	<0.1	<0.1	<0.1	1	31.04
3485511	Drill Core	5.06	0.049	1.6	261.3	9.4	90	0.3	14.8	38.5	1254	7.55	5	0.4	0.7	295	0.4	3.1	<0.1	283	6.58
3485512	Drill Core	3.70	0.015	3.2	481.2	5.7	75	0.5	20.0	45.2	1265	7.00	7	0.5	0.9	367	0.3	2.1	<0.1	273	5.95
3485513	Drill Core	4.08	0.015	3.1	309.2	9.1	54	0.4	17.9	33.8	1229	6.94	10	0.6	0.8	1122	0.2	4.3	<0.1	274	6.85
3485514	Drill Core	5.05	0.011	4.3	208.7	6.5	64	0.2	15.9	34.0	1068	6.23	9	0.5	0.8	908	0.2	3.0	<0.1	228	6.16
3485515	Core DUP		0.014	4.8	211.5	6.5	61	0.2	15.5	32.8	1076	6.28	10	0.6	0.8	928	0.2	3.0	<0.1	228	6.31
3485516	Drill Core	4.97	0.012	2.3	285.0	5.8	75	0.3	17.4	33.8	1141	6.32	7	0.5	0.8	850	0.2	1.8	<0.1	256	6.36
3485517	Drill Core	4.58	0.014	2.2	391.4	5.9	66	0.4	19.9	33.6	1266	7.02	9	0.5	0.8	846	0.2	1.9	<0.1	297	6.61
3485518	Drill Core	5.06	0.010	2.0	434.0	6.2	71	0.4	25.5	42.4	1444	8.36	9	0.6	0.7	785	0.2	1.8	<0.1	353	6.69
3485519	Drill Core	4.51	0.017	10.6	359.9	7.0	64	0.4	26.6	37.8	1283	7.48	10	1.0	0.8	792	0.2	1.7	<0.1	285	6.39
3485520	Rock Pulp	0.13	0.211	97.2	2755.7	22.1	80	0.3	61.1	16.5	561	4.37	18	4.5	18.7	307	0.3	2.2	0.7	122	2.57
3485521	Drill Core	4.89	0.013	2.4	249.8	6.1	53	0.2	18.0	28.1	1106	6.36	8	0.6	0.9	1036	0.1	2.2	<0.1	267	6.91
3485522	Drill Core	4.69	0.017	3.1	563.5	7.1	66	0.5	26.1	38.2	1252	6.74	7	0.7	1.1	946	0.2	2.3	<0.1	264	7.11
3485523	Drill Core	3.45	0.008	41.1	258.2	65.7	129	0.6	27.8	35.6	1791	6.78	5	1.4	0.9	379	0.5	1.1	0.6	287	6.75
3485524	Drill Core	3.51	0.015	4.1	345.9	8.9	82	0.4	22.2	31.2	1376	6.49	6	0.6	0.9	452	0.3	1.1	<0.1	265	5.83
3485525	Drill Core	4.82	0.016	2.5	341.1	18.0	83	0.5	23.3	31.3	1408	6.48	5	0.8	0.9	755	0.4	1.8	0.2	259	6.17
3485526	Drill Core	4.59	<0.005	2.6	49.0	51.6	75	0.1	9.1	10.0	833	2.81	3	0.7	0.8	753	0.8	1.9	0.1	117	3.82
3485527	Drill Core	4.86	0.008	8.1	228.2	70.0	119	0.4	18.1	24.1	1231	5.13	5	0.9	1.1	559	3.4	1.5	0.4	197	5.48
3485528	Drill Core	2.52	0.007	1.7	253.3	4.8	97	0.3	28.7	41.7	1584	7.53	6	0.4	0.7	554	0.2	1.8	<0.1	276	6.64
3485529	Drill Core	3.47	0.016	8.2	338.9	5.9	91	0.5	29.4	43.1	1489	7.59	8	1.1	0.9	560	0.3	1.6	<0.1	290	7.30
3485530	Rock	1.40	<0.005	<0.1	0.9	0.5	2	<0.1	0.4	<0.2	136	0.10	<1	<0.1	<0.1	81	<0.1	<0.1	<0.1	1	32.17

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485501	Drill Core	0.143	8.9	77	3.09	1221	0.380	7.17	2.139	2.64	0.7	15.7	17	0.6	14.4	3.9	0.2	<1	32	14.8	<0.1
3485502	Drill Core	0.146	8.5	73	3.43	1141	0.391	7.27	2.246	2.49	0.6	13.7	16	0.6	13.9	4.7	0.2	1	30	15.8	<0.1
3485503	Drill Core	0.142	8.3	75	3.30	1016	0.365	7.09	2.292	2.34	0.8	19.4	16	0.6	14.4	4.0	0.2	<1	29	23.2	0.1
3485504	Drill Core	0.156	8.8	74	3.62	1136	0.442	7.51	2.074	2.30	0.4	16.5	17	0.5	14.7	4.4	0.3	<1	31	17.2	<0.1
3485505	Drill Core	0.143	8.4	69	3.35	1183	0.390	7.05	2.189	2.55	0.8	12.3	16	0.6	14.3	4.2	0.2	<1	29	20.2	<0.1
3485506	Drill Core	0.135	7.8	61	3.06	1150	0.392	6.97	2.191	2.74	0.9	11.1	15	0.6	13.6	3.9	0.2	<1	28	20.6	0.2
3485507	Drill Core	0.088	5.4	40	3.69	770	0.540	6.46	1.720	2.61	0.9	11.2	11	0.7	13.4	2.9	0.2	1	35	29.8	0.5
3485508	Drill Core	0.184	6.5	29	3.17	550	0.488	7.36	1.984	1.78	1.2	9.1	13	0.5	14.2	2.3	0.1	<1	28	32.5	0.4
3485509	Drill Core	0.276	7.6	22	3.36	724	0.457	7.91	1.954	2.13	0.8	13.4	15	0.5	13.7	2.4	0.1	<1	25	32.3	0.2
3485510	Rock	0.007	1.5	1	2.40	13	0.005	0.07	0.028	<0.01	<0.1	1.1	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.3	<0.1
3485511	Drill Core	0.324	8.5	15	2.91	453	0.288	7.91	1.291	3.22	1.0	5.6	17	0.4	12.5	1.3	<0.1	2	22	30.9	0.2
3485512	Drill Core	0.200	7.5	21	2.61	730	0.367	8.04	2.108	3.11	1.7	6.7	15	0.6	12.0	2.2	0.1	<1	20	31.0	0.9
3485513	Drill Core	0.163	7.2	25	2.60	1005	0.417	8.94	2.369	2.30	0.9	8.8	14	0.6	12.0	3.1	0.2	<1	22	24.7	0.2
3485514	Drill Core	0.166	5.9	20	2.21	1168	0.361	9.30	2.520	2.63	0.9	6.9	13	0.6	10.1	2.8	0.2	1	18	29.7	0.3
3485515	Core DUP	0.156	6.4	20	2.26	1145	0.376	9.50	2.536	2.64	1.1	7.0	14	0.6	10.7	2.8	0.2	<1	19	29.5	0.3
3485516	Drill Core	0.173	7.1	22	2.56	1054	0.399	9.32	2.370	2.59	0.9	8.7	14	0.6	11.0	2.4	0.1	<1	20	28.9	0.4
3485517	Drill Core	0.180	6.7	28	2.85	886	0.445	9.00	2.229	2.49	0.9	9.1	13	0.5	11.0	2.5	0.2	<1	22	35.6	0.3
3485518	Drill Core	0.153	6.4	38	3.44	711	0.532	8.36	1.984	1.96	0.8	11.2	14	0.5	12.8	2.4	0.1	<1	28	31.2	0.6
3485519	Drill Core	0.162	6.8	49	3.33	853	0.495	8.74	2.241	2.20	0.8	10.1	14	0.4	11.9	2.8	0.1	<1	27	39.0	1.1
3485520	Rock Pulp	0.108	29.5	78	1.48	1048	0.490	7.29	2.038	3.35	4.8	72.2	66	3.6	24.8	18.1	1.3	4	13	32.3	0.3
3485521	Drill Core	0.126	6.4	25	2.61	911	0.381	8.85	2.239	2.18	0.7	10.3	13	0.5	11.7	3.1	0.2	2	23	27.1	0.4
3485522	Drill Core	0.118	6.9	27	2.86	1004	0.405	8.76	2.035	2.82	0.7	20.6	13	0.7	12.2	3.8	0.2	<1	25	34.3	0.7
3485523	Drill Core	0.145	7.8	60	3.35	447	0.377	6.71	1.968	4.33	0.6	13.5	17	0.6	14.8	4.2	0.2	3	30	45.7	1.7
3485524	Drill Core	0.160	7.5	44	2.92	940	0.388	7.28	2.419	4.12	0.6	11.9	16	0.6	13.8	3.9	0.2	2	25	45.7	0.8
3485525	Drill Core	0.149	6.6	45	2.79	742	0.389	7.78	1.947	4.51	0.7	18.3	14	0.6	13.6	4.4	0.2	3	24	47.7	1.0
3485526	Drill Core	0.095	5.4	18	0.88	861	0.196	8.04	2.462	6.40	5.0	17.3	11	0.4	8.8	6.0	0.3	3	7	37.1	0.2
3485527	Drill Core	0.130	8.3	38	2.33	805	0.304	8.01	3.025	4.08	1.5	14.1	15	0.6	12.4	4.9	0.3	3	19	37.9	1.0
3485528	Drill Core	0.163	7.1	71	3.81	786	0.404	6.87	2.249	2.66	0.5	10.4	15	0.6	15.4	2.3	0.1	<1	34	41.2	0.8
3485529	Drill Core	0.174	8.0	69	3.33	1033	0.401	6.93	2.205	3.00	0.9	9.6	16	0.7	16.0	2.9	0.1	1	36	43.7	1.2
3485530	Rock	0.006	1.2	1	2.07	13	0.005	0.06	0.027	0.01	<0.1	1.2	<1	<0.1	2.1	0.1	<0.1	<1	<1	0.8	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485501	Drill Core	45.9	0.5	0.05	<0.005	<1	1.8	<0.5
3485502	Drill Core	42.9	0.6	<0.05	<0.005	<1	1.6	<0.5
3485503	Drill Core	48.2	0.5	<0.05	0.007	<1	2.2	<0.5
3485504	Drill Core	42.0	0.7	0.05	<0.005	<1	1.8	<0.5
3485505	Drill Core	49.1	0.7	<0.05	<0.005	<1	2.2	<0.5
3485506	Drill Core	54.6	0.5	<0.05	0.005	<1	1.3	<0.5
3485507	Drill Core	74.2	0.6	0.08	0.008	<1	1.4	<0.5
3485508	Drill Core	56.9	0.5	<0.05	0.007	<1	2.8	<0.5
3485509	Drill Core	59.4	0.8	0.07	0.006	<1	2.1	<0.5
3485510	Rock	0.2	<0.1	<0.05	<0.005	<1	4.4	<0.5
3485511	Drill Core	107.4	0.3	<0.05	0.006	<1	1.0	<0.5
3485512	Drill Core	92.4	0.5	<0.05	0.015	1	0.8	<0.5
3485513	Drill Core	54.5	0.5	0.07	0.007	<1	1.7	<0.5
3485514	Drill Core	59.7	0.4	<0.05	0.011	<1	0.8	<0.5
3485515	Core DUP	64.1	0.4	<0.05	0.010	<1	0.9	<0.5
3485516	Drill Core	67.7	0.4	<0.05	0.018	1	1.4	<0.5
3485517	Drill Core	67.8	0.5	<0.05	0.012	<1	0.5	<0.5
3485518	Drill Core	59.5	0.6	<0.05	0.009	1	1.3	<0.5
3485519	Drill Core	54.8	0.4	<0.05	0.026	2	0.9	<0.5
3485520	Rock Pulp	177.7	2.4	0.12	<0.005	1	<0.5	1.0
3485521	Drill Core	53.0	0.5	<0.05	0.011	<1	1.1	<0.5
3485522	Drill Core	74.6	0.7	<0.05	0.020	<1	1.3	<0.5
3485523	Drill Core	128.8	0.5	0.08	0.095	3	1.4	0.8
3485524	Drill Core	101.9	0.6	<0.05	0.009	1	1.3	0.7
3485525	Drill Core	112.7	0.6	<0.05	0.009	1	1.6	0.6
3485526	Drill Core	96.1	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485527	Drill Core	108.7	0.5	<0.05	0.017	2	1.1	0.6
3485528	Drill Core	80.7	0.6	0.09	0.010	1	1.4	<0.5
3485529	Drill Core	86.6	0.6	0.09	0.026	2	2.0	0.5
3485530	Rock	0.3	<0.1	<0.05	<0.005	<1	5.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485531	Drill Core	3.99	0.007	2.4	227.6	3.7	81	0.2	22.7	47.3	1445	9.01	10	0.5	1.0	669	0.2	2.1	<0.1	394	7.07
3485532	Drill Core	4.68	0.011	2.5	369.1	3.9	93	0.4	29.2	53.9	1778	9.89	12	0.6	0.7	2599	0.2	3.8	<0.1	433	9.69
3485533	Drill Core	2.11	0.009	1.4	450.9	3.2	94	0.4	25.3	46.6	1768	9.27	9	0.4	0.7	920	0.2	1.8	<0.1	426	8.58
3485534	Drill Core	2.87	0.006	1.2	288.9	3.7	87	0.3	18.6	41.2	1657	8.08	9	0.6	1.1	1761	0.1	2.5	<0.1	351	9.00
3485535	Drill Core	5.61	0.009	2.2	346.9	3.2	86	0.4	20.8	42.6	1439	8.08	8	0.8	1.2	242	0.3	1.4	<0.1	371	7.59
3485536	Drill Core	4.83	0.008	2.6	362.8	5.8	101	0.4	21.0	47.2	1549	8.40	14	0.6	0.8	455	0.2	1.4	<0.1	380	7.66
3485537	Drill Core	4.60	0.012	10.1	482.3	11.4	76	0.5	20.0	48.2	1388	7.96	14	0.9	0.8	446	0.2	1.2	0.1	381	7.27
3485538	Drill Core	5.38	0.019	2.6	315.8	10.1	120	0.5	23.1	44.0	2156	8.26	14	0.5	0.7	370	0.5	1.3	<0.1	478	8.14
3485539	Drill Core	5.12	0.018	1.0	380.9	8.7	117	0.7	27.7	51.1	2527	8.72	13	0.2	0.5	508	0.4	1.9	<0.1	392	8.72
3485540	Rock Pulp	0.13	0.702	303.2	5222.9	21.2	84	0.7	40.3	15.8	539	4.93	22	5.1	17.7	316	0.7	3.8	0.6	122	2.52
3485541	Drill Core	2.23	0.030	2.3	217.3	12.4	78	0.5	20.8	39.1	2668	7.68	22	0.5	0.5	270	0.3	1.7	<0.1	361	7.80
3485542	Drill Core	3.99	0.006	4.1	88.6	7.2	75	<0.1	8.2	16.0	1136	4.68	4	1.2	2.4	493	0.1	0.8	<0.1	141	3.41
3485543	Drill Core	5.12	0.119	2.8	81.7	4.4	74	0.1	9.5	17.5	1150	4.73	5	1.0	2.3	482	<0.1	0.8	<0.1	140	3.60
3485544	Drill Core	4.72	0.006	7.6	118.3	10.4	83	0.1	12.6	20.8	1307	5.13	5	1.2	1.6	531	0.2	1.2	0.1	200	5.03
3485545	Drill Core	3.83	0.046	60.4	310.3	69.5	128	0.9	24.8	31.1	1461	6.29	20	4.1	0.9	550	0.8	1.8	1.0	405	7.55
3485546	Drill Core	3.12	0.016	53.0	202.1	719.3	273	2.8	23.8	28.6	2025	5.64	12	4.4	0.6	1040	11.9	1.8	5.8	362	14.76
3485547	Drill Core	5.06	0.008	2.4	310.9	4.0	92	0.2	42.7	52.7	1671	10.24	5	0.3	0.5	577	0.2	1.1	<0.1	563	8.51
3485548	Drill Core	5.66	0.007	2.7	352.4	7.0	104	0.2	50.6	56.7	1974	11.41	6	0.3	0.7	491	0.2	1.1	<0.1	673	8.91
3485549	Drill Core	5.58	0.009	1.9	371.1	3.8	94	0.2	42.2	51.3	1716	9.69	5	0.3	0.8	458	0.2	0.9	<0.1	550	8.49
3485550	Rock	1.41	<0.005	<0.1	1.4	0.4	2	<0.1	<0.1	0.2	100	0.13	2	0.1	<0.1	77	<0.1	<0.1	<0.1	2	34.17
3485551	Drill Core	5.20	0.012	1.7	476.0	3.6	92	0.2	37.4	50.2	1592	9.11	6	0.3	0.6	596	0.1	0.9	<0.1	517	8.60
3485552	Drill Core	4.83	0.008	9.9	318.3	3.5	85	0.2	29.0	48.3	1597	8.81	6	0.3	0.5	670	0.1	1.0	<0.1	515	9.32
3485553	Drill Core	4.75	0.020	2.4	421.0	3.0	95	0.2	33.2	56.7	1666	9.79	5	0.3	0.5	723	<0.1	0.9	<0.1	593	9.01
3485554	Drill Core	4.52	0.007	0.9	370.1	3.5	92	0.2	31.2	47.1	1536	9.06	6	0.2	0.4	671	<0.1	1.1	<0.1	532	8.54
3485555	Core DUP		0.007	1.0	371.1	3.5	91	0.2	29.5	48.5	1517	8.87	5	0.2	0.5	652	0.1	1.0	<0.1	532	8.40
3485556	Drill Core	4.56	0.009	1.4	312.8	5.2	92	0.2	28.3	49.6	1648	9.18	4	0.2	0.5	649	0.1	0.9	<0.1	517	8.12
3485557	Drill Core	4.44	0.006	8.4	134.5	6.7	77	0.1	10.9	21.2	1136	5.12	4	1.4	2.4	462	<0.1	0.9	<0.1	185	3.74
3485558	Drill Core	4.29	<0.005	3.1	90.2	4.8	69	<0.1	10.1	16.1	1087	4.66	4	1.1	2.3	548	<0.1	0.9	<0.1	151	3.59
3485559	Drill Core	4.38	0.006	2.6	82.4	4.9	68	<0.1	10.0	17.0	1084	4.86	4	1.1	2.3	565	<0.1	1.0	<0.1	156	3.52
3485560	Rock Pulp	0.07	0.217	93.6	2682.2	19.8	72	0.4	56.5	14.6	557	4.28	17	4.3	16.6	299	0.1	2.1	0.6	123	2.56

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485531	Drill Core	0.274	8.4	46	3.76	754	0.548	7.69	1.760	1.76	1.0	12.9	18	0.6	16.7	2.8	0.2	<1	31	35.6	0.3
3485532	Drill Core	0.266	8.4	46	3.79	382	0.612	7.07	1.296	0.92	0.8	17.0	17	0.6	17.3	2.5	0.1	<1	35	28.8	1.2
3485533	Drill Core	0.316	8.1	24	3.88	583	0.569	7.37	1.418	1.74	0.6	14.0	16	0.6	17.0	2.0	0.1	<1	35	37.6	0.7
3485534	Drill Core	0.260	7.7	27	3.70	347	0.472	7.26	1.797	1.20	1.5	12.7	17	0.5	17.4	3.3	0.2	2	30	33.0	0.5
3485535	Drill Core	0.275	8.1	25	3.54	517	0.452	7.04	1.935	3.09	1.8	13.7	16	0.6	16.1	3.5	0.2	2	28	51.5	1.4
3485536	Drill Core	0.381	8.6	24	3.96	633	0.468	7.33	1.476	3.71	0.8	9.9	18	0.5	17.1	2.1	0.1	2	29	70.6	1.3
3485537	Drill Core	0.324	7.5	26	3.79	677	0.474	7.19	1.272	3.76	0.7	10.7	16	0.5	15.3	2.4	0.1	1	30	62.2	1.6
3485538	Drill Core	0.217	6.7	30	3.65	429	0.531	6.48	1.669	3.04	1.0	7.5	14	0.4	14.6	1.9	0.1	2	32	51.5	1.2
3485539	Drill Core	0.212	6.8	44	3.96	443	0.571	6.59	1.484	2.73	0.8	8.9	15	0.5	15.9	1.9	0.1	<1	33	44.1	1.2
3485540	Rock Pulp	0.096	30.2	68	1.49	790	0.444	7.17	1.966	3.26	4.5	61.6	62	3.4	23.8	16.0	1.1	2	13	31.3	0.5
3485541	Drill Core	0.200	5.6	27	3.64	182	0.456	6.02	1.687	2.96	0.9	6.7	12	0.4	13.3	1.7	<0.1	1	30	37.8	2.6
3485542	Drill Core	0.157	11.0	22	1.65	945	0.444	7.67	2.806	4.99	0.8	63.0	25	1.2	17.5	12.8	0.8	2	12	20.7	0.3
3485543	Drill Core	0.149	11.2	25	1.64	1029	0.458	7.78	2.881	4.84	0.9	53.8	25	1.2	18.7	13.4	0.8	2	12	19.6	0.1
3485544	Drill Core	0.152	11.4	19	1.89	940	0.557	7.90	2.033	5.71	0.8	42.9	25	1.1	18.3	10.3	0.7	2	16	23.6	0.8
3485545	Drill Core	0.068	5.6	21	2.76	52	0.317	6.18	2.210	3.62	2.2	21.8	11	0.8	10.2	5.0	0.2	8	22	42.8	4.0
3485546	Drill Core	0.035	8.2	38	2.88	172	0.273	3.84	1.449	1.59	0.3	10.0	12	0.6	12.0	1.2	<0.1	4	27	39.7	2.7
3485547	Drill Core	0.038	3.7	42	4.55	372	0.599	6.33	1.092	1.64	0.4	16.2	8	0.5	12.0	1.7	0.1	<1	44	33.9	0.4
3485548	Drill Core	0.042	3.7	73	5.39	223	0.728	5.44	1.199	0.83	0.6	20.6	9	0.7	13.5	2.1	0.2	<1	54	23.6	0.3
3485549	Drill Core	0.065	4.5	46	4.75	467	0.634	6.54	1.608	1.26	0.5	18.3	10	0.6	12.6	2.3	0.1	<1	41	25.5	0.5
3485550	Rock	0.005	1.3	1	1.48	54	0.006	0.05	0.028	0.02	<0.1	1.1	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.1	<0.1
3485551	Drill Core	0.038	3.7	31	4.57	397	0.596	7.86	1.208	1.73	0.4	16.6	8	0.5	10.1	1.8	0.1	<1	38	27.8	0.5
3485552	Drill Core	0.046	3.7	36	4.42	326	0.581	7.24	1.194	1.26	0.5	17.4	8	0.6	11.1	1.7	0.1	<1	40	23.6	0.3
3485553	Drill Core	0.050	3.9	38	4.71	254	0.677	6.48	1.198	0.98	0.6	15.8	8	0.5	11.7	1.7	<0.1	<1	41	23.7	0.5
3485554	Drill Core	0.053	3.6	30	4.35	381	0.617	7.85	0.914	1.55	0.3	14.3	8	0.4	10.5	1.8	<0.1	<1	38	23.8	0.3
3485555	Core DUP	0.050	3.5	28	4.32	392	0.614	7.64	0.946	1.55	0.3	14.3	7	0.4	10.0	1.7	<0.1	<1	37	23.6	0.3
3485556	Drill Core	0.054	3.5	30	4.50	307	0.636	7.28	0.957	1.56	0.4	14.7	8	0.4	10.6	1.6	<0.1	<1	37	30.3	0.4
3485557	Drill Core	0.139	13.3	24	1.89	1248	0.497	7.83	3.431	4.86	0.8	66.7	27	1.1	17.1	12.3	0.8	2	15	18.2	0.7
3485558	Drill Core	0.152	11.4	26	1.62	1043	0.484	7.59	3.684	4.13	0.7	52.6	25	1.2	16.1	12.9	0.8	2	12	9.2	<0.1
3485559	Drill Core	0.161	10.7	27	1.63	952	0.496	7.66	3.934	3.98	0.7	56.8	24	1.2	16.7	13.4	0.8	2	12	10.9	<0.1
3485560	Rock Pulp	0.091	31.5	80	1.45	1013	0.463	7.25	2.128	3.54	4.4	64.6	63	3.0	21.8	16.3	1.2	3	12	31.2	0.3

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485531	Drill Core	58.3	0.7	0.07	0.008	<1	1.3	<0.5
3485532	Drill Core	30.3	0.7	0.07	0.006	<1	2.8	<0.5
3485533	Drill Core	56.4	0.7	0.06	<0.005	<1	2.1	<0.5
3485534	Drill Core	47.5	0.6	0.05	0.006	<1	2.5	<0.5
3485535	Drill Core	105.2	0.6	<0.05	0.028	3	1.6	0.6
3485536	Drill Core	138.5	0.5	0.06	0.017	<1	2.0	0.8
3485537	Drill Core	132.6	0.6	0.07	0.047	3	1.8	0.8
3485538	Drill Core	117.5	0.4	<0.05	0.006	<1	1.7	0.8
3485539	Drill Core	105.0	0.5	0.06	0.010	1	2.3	0.6
3485540	Rock Pulp	168.2	2.1	0.07	<0.005	3	0.7	0.8
3485541	Drill Core	107.7	0.4	<0.05	0.009	2	1.2	0.8
3485542	Drill Core	85.0	1.8	<0.05	<0.005	<1	0.5	<0.5
3485543	Drill Core	79.3	1.5	0.05	<0.005	<1	0.6	<0.5
3485544	Drill Core	75.7	1.2	<0.05	0.026	<1	0.8	0.5
3485545	Drill Core	103.8	0.7	0.05	0.213	6	1.5	0.9
3485546	Drill Core	87.6	0.4	<0.05	0.161	6	5.0	0.7
3485547	Drill Core	61.0	0.8	0.06	0.012	<1	0.7	<0.5
3485548	Drill Core	27.9	1.1	0.08	0.008	<1	1.9	<0.5
3485549	Drill Core	39.0	0.9	<0.05	0.010	1	2.1	<0.5
3485550	Rock	0.3	<0.1	<0.05	<0.005	<1	3.6	<0.5
3485551	Drill Core	55.0	0.8	<0.05	0.018	<1	1.4	<0.5
3485552	Drill Core	38.6	0.8	0.07	0.024	<1	1.1	<0.5
3485553	Drill Core	33.2	0.8	0.06	0.024	<1	0.9	<0.5
3485554	Drill Core	46.1	0.7	<0.05	<0.005	<1	1.4	<0.5
3485555	Core DUP	44.7	0.7	<0.05	0.007	<1	0.9	<0.5
3485556	Drill Core	56.4	0.8	<0.05	0.020	<1	0.9	<0.5
3485557	Drill Core	64.8	1.8	<0.05	0.016	<1	<0.5	<0.5
3485558	Drill Core	40.3	1.6	<0.05	<0.005	<1	<0.5	<0.5
3485559	Drill Core	41.2	1.7	<0.05	<0.005	<1	<0.5	<0.5
3485560	Rock Pulp	176.1	2.1	0.08	<0.005	1	<0.5	1.0

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485561	Drill Core	4.27	0.006	2.3	101.0	3.3	75	<0.1	10.3	17.5	1095	4.79	4	1.1	2.3	460	<0.1	0.6	<0.1	154	3.62
3485562	Drill Core	4.54	0.005	3.0	101.5	3.3	78	<0.1	11.2	18.3	1068	4.98	4	1.1	2.3	520	<0.1	0.8	<0.1	154	3.46
3485563	Drill Core	3.11	0.006	2.9	88.3	3.2	63	<0.1	10.2	17.2	1066	4.81	4	1.1	2.2	452	<0.1	0.8	<0.1	155	3.66
3485564	Drill Core	3.39	0.007	0.8	185.4	3.7	72	0.1	22.6	39.5	1401	7.38	5	0.3	0.6	935	<0.1	1.5	<0.1	340	8.09
3485565	Drill Core	4.24	0.011	1.2	196.9	4.2	73	0.1	23.0	39.8	1304	7.03	6	0.3	0.6	997	<0.1	1.9	<0.1	336	8.57
3485566	Drill Core	4.96	0.011	0.8	210.5	4.5	75	0.2	25.2	42.8	1396	8.03	7	0.3	0.6	1108	0.1	2.0	<0.1	399	8.39
3485567	Drill Core	5.07	0.037	0.7	237.7	4.5	78	0.2	25.4	41.4	1348	7.27	6	0.3	0.7	780	0.1	1.7	<0.1	343	7.88
3485568	Drill Core	4.44	0.008	1.1	245.7	4.9	76	0.2	24.4	44.2	1414	7.44	5	0.3	0.7	886	<0.1	1.7	<0.1	364	8.67
3485569	Drill Core	4.06	0.010	2.7	203.4	4.2	82	0.1	21.0	33.8	1444	6.55	4	0.7	1.3	377	<0.1	1.1	<0.1	267	6.60
3485570	Rock	1.37	<0.005	<0.1	1.0	0.6	2	<0.1	<0.1	0.2	140	0.11	<1	0.1	<0.1	85	<0.1	<0.1	<0.1	1	32.45
3485571	Drill Core	4.37	0.014	3.7	171.0	5.7	85	0.1	21.5	33.3	1450	6.53	6	0.7	1.3	440	<0.1	1.4	<0.1	287	7.01
3485572	Drill Core	4.10	0.015	1.8	280.7	5.3	84	0.2	24.0	44.5	1407	8.27	6	0.4	0.9	1276	<0.1	2.0	<0.1	415	8.15
3485573	Drill Core	5.35	0.010	1.4	247.6	4.1	84	0.1	23.4	43.6	1508	8.80	4	0.3	0.7	852	0.1	1.3	<0.1	434	7.84
3485574	Drill Core	2.22	0.010	1.7	142.1	4.6	93	0.1	23.1	38.5	1590	6.43	5	0.7	1.6	347	0.1	1.3	<0.1	274	6.26
3485575	Drill Core	2.72	0.007	1.1	178.6	6.1	80	0.2	22.8	37.8	1405	6.63	4	0.4	0.9	552	0.1	1.5	<0.1	285	7.10
3485576	Drill Core	4.22	0.006	6.0	145.4	11.0	81	0.1	12.3	20.7	1079	4.97	4	1.2	2.2	313	0.1	0.6	<0.1	177	4.32
3485577	Drill Core	5.13	0.006	2.9	107.6	6.5	71	<0.1	9.8	18.2	1081	4.71	2	1.4	2.5	360	<0.1	0.5	<0.1	150	3.99
3485578	Drill Core	4.44	<0.005	3.2	92.9	6.9	74	<0.1	9.6	17.3	1072	4.67	3	1.4	2.4	440	<0.1	0.7	<0.1	150	3.54
3485579	Drill Core	4.55	<0.005	2.2	69.5	4.1	68	<0.1	10.1	18.0	1063	4.73	4	1.2	2.4	423	<0.1	0.8	<0.1	148	3.48
3485580	Rock Pulp	0.06	0.216	99.0	2770.6	21.2	83	0.4	59.6	15.4	571	4.38	18	4.9	17.8	334	0.2	2.2	0.6	127	2.64
3485581	Drill Core	5.67	<0.005	1.9	102.7	5.4	69	<0.1	9.4	18.2	1042	4.49	4	1.3	2.3	347	0.1	1.0	<0.1	147	3.66
3485582	Drill Core	1.95	0.008	3.6	150.6	8.7	69	0.2	8.9	16.2	997	4.46	6	1.1	2.0	323	0.2	1.1	<0.1	158	3.37
3485583	Drill Core	3.79	0.013	3.2	242.4	7.1	129	0.3	21.3	34.7	1629	6.55	6	0.7	0.9	229	0.2	0.8	0.1	275	4.68
3485584	Drill Core	3.05	0.014	2.0	221.1	5.1	94	0.2	22.8	44.8	1732	8.32	6	0.4	0.8	434	0.1	1.2	<0.1	378	7.01
3485585	Drill Core	4.97	0.006	1.4	185.0	3.8	74	0.1	15.7	36.2	1301	7.68	5	0.4	0.8	1040	<0.1	1.8	<0.1	335	7.98
3485586	Drill Core	4.37	0.006	10.2	209.6	5.0	81	0.2	15.5	36.6	1369	7.44	7	0.4	0.8	1057	0.1	1.9	<0.1	335	8.55
3485587	Drill Core	4.47	0.009	0.8	237.4	4.2	81	0.2	14.7	33.8	1313	7.51	5	0.3	0.7	1024	0.1	1.7	<0.1	348	8.00
3485588	Drill Core	4.79	0.007	1.4	254.5	4.2	79	0.2	12.7	31.7	1175	6.58	6	0.4	0.8	990	0.1	1.9	<0.1	304	7.23
3485589	Drill Core	5.36	0.007	5.7	215.4	5.9	68	0.2	10.8	26.8	1084	5.84	6	0.7	0.7	1047	0.1	1.6	<0.1	259	6.92
3485590	Rock	1.34	0.006	<0.1	0.6	0.4	3	<0.1	<0.1	0.7	140	0.11	<1	<0.1	<0.1	71	<0.1	<0.1	<0.1	1	31.94

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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485561	Drill Core	0.155	11.9	28	1.76	1009	0.522	7.91	4.012	3.82	0.8	61.5	27	1.2	16.8	12.9	0.9	1	13	10.7	<0.1
3485562	Drill Core	0.162	12.6	29	1.71	1012	0.502	7.79	3.933	3.84	1.0	61.0	27	1.2	18.0	14.0	0.8	1	13	11.4	0.1
3485563	Drill Core	0.158	12.9	29	1.72	1258	0.490	7.75	3.756	4.10	0.9	63.0	27	1.1	16.4	13.3	0.8	1	12	11.9	0.2
3485564	Drill Core	0.052	4.3	20	3.27	569	0.456	9.02	1.438	1.93	0.3	12.8	9	0.4	9.0	2.3	0.1	<1	27	21.1	0.1
3485565	Drill Core	0.080	4.7	19	3.18	536	0.448	9.16	1.691	1.67	0.5	10.7	9	0.5	9.1	2.4	0.1	<1	27	23.1	0.3
3485566	Drill Core	0.065	4.2	23	3.48	438	0.491	8.70	1.398	1.52	0.3	13.3	8	0.5	9.7	2.2	0.1	<1	30	18.1	0.2
3485567	Drill Core	0.074	4.6	24	3.45	492	0.435	8.67	1.704	1.75	0.5	12.3	9	0.4	9.6	2.3	0.1	<1	28	23.3	0.2
3485568	Drill Core	0.069	4.5	19	3.52	647	0.447	8.91	1.301	1.69	0.5	13.3	9	0.4	9.9	2.2	0.1	<1	30	20.9	0.1
3485569	Drill Core	0.133	8.2	65	3.27	689	0.451	7.68	3.929	1.26	0.7	27.3	17	0.6	13.7	6.0	0.3	<1	27	21.8	0.5
3485570	Rock	0.007	1.4	1	2.26	15	0.006	0.06	0.031	0.01	<0.1	1.3	<1	<0.1	2.1	0.2	<0.1	<1	<1	1.3	<0.1
3485571	Drill Core	0.120	8.0	69	3.49	563	0.464	7.56	3.052	1.43	0.7	30.8	16	0.7	13.3	6.2	0.3	<1	28	21.9	0.5
3485572	Drill Core	0.104	5.2	31	3.53	395	0.550	8.59	1.847	1.04	0.5	16.2	11	0.5	11.5	2.9	0.2	<1	32	23.3	0.1
3485573	Drill Core	0.109	4.5	21	3.68	566	0.586	8.54	1.419	1.65	0.4	14.2	9	0.5	10.8	2.3	0.1	<1	31	22.9	0.2
3485574	Drill Core	0.138	9.3	79	3.43	307	0.478	7.73	4.569	0.64	0.5	36.3	18	0.7	15.3	7.2	0.4	<1	29	21.4	0.8
3485575	Drill Core	0.095	5.8	49	3.38	640	0.470	8.23	2.450	2.40	0.5	20.4	11	0.5	10.1	3.9	0.2	<1	27	24.4	0.2
3485576	Drill Core	0.148	12.4	20	1.90	795	0.438	8.12	4.288	3.58	1.2	52.3	25	1.1	15.7	11.1	0.7	2	14	20.3	0.4
3485577	Drill Core	0.167	14.2	25	1.71	1075	0.482	7.96	3.362	5.95	0.8	58.4	28	0.9	18.1	12.4	0.8	2	12	18.7	0.5
3485578	Drill Core	0.156	12.6	22	1.52	1167	0.468	7.93	2.942	6.56	0.8	64.8	26	1.1	17.1	12.5	0.8	3	12	17.3	0.4
3485579	Drill Core	0.155	13.9	25	1.64	1016	0.462	7.93	3.821	3.95	0.8	60.1	28	1.1	17.9	12.6	0.8	2	12	12.6	<0.1
3485580	Rock Pulp	0.108	35.1	81	1.51	1046	0.497	7.53	2.223	3.63	4.1	71.6	70	3.3	25.2	17.8	1.3	3	13	30.3	0.3
3485581	Drill Core	0.162	13.0	24	1.53	990	0.456	8.06	3.849	4.71	1.1	58.4	27	1.0	16.9	12.6	0.7	1	11	10.1	0.4
3485582	Drill Core	0.163	12.3	21	1.69	1223	0.464	7.86	3.337	5.90	1.1	53.8	26	1.1	16.0	12.2	0.7	2	11	16.3	0.6
3485583	Drill Core	0.180	7.9	55	3.49	513	0.444	7.62	2.057	4.52	0.5	13.4	15	0.7	12.7	5.0	0.3	2	26	50.3	1.8
3485584	Drill Core	0.190	6.9	51	3.64	557	0.491	7.19	1.919	2.26	0.5	19.9	14	0.6	13.4	3.2	0.2	<1	32	28.8	0.9
3485585	Drill Core	0.231	6.9	16	2.90	386	0.420	9.12	1.828	1.29	0.4	14.4	14	0.5	11.7	2.1	0.1	<1	24	22.9	0.1
3485586	Drill Core	0.222	7.1	14	2.96	462	0.421	9.56	1.890	1.35	0.5	13.4	14	0.5	11.7	2.3	0.1	<1	23	24.0	0.2
3485587	Drill Core	0.220	6.6	13	2.68	613	0.437	9.72	1.713	1.85	0.5	13.4	14	0.4	11.0	2.2	0.1	<1	21	25.2	<0.1
3485588	Drill Core	0.226	6.9	10	2.30	672	0.419	9.96	2.347	1.89	1.4	11.4	14	0.5	10.6	2.6	0.2	<1	17	25.6	0.1
3485589	Drill Core	0.204	6.1	9	2.00	811	0.388	9.80	2.296	1.86	0.7	10.0	13	0.4	9.7	2.8	0.2	<1	14	25.8	0.1
3485590	Rock	0.007	0.9	1	2.58	11	0.005	0.05	0.031	0.01	<0.1	1.2	<1	<0.1	1.9	<0.1	<0.1	<1	<1	1.0	<0.1

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485561	Drill Core	42.9	1.8	<0.05	<0.005	<1	<0.5	<0.5
3485562	Drill Core	45.5	1.7	<0.05	<0.005	<1	<0.5	<0.5
3485563	Drill Core	45.3	1.8	<0.05	<0.005	<1	<0.5	<0.5
3485564	Drill Core	61.2	0.6	<0.05	<0.005	<1	1.0	<0.5
3485565	Drill Core	47.6	0.6	<0.05	0.012	<1	0.8	<0.5
3485566	Drill Core	47.9	0.6	0.05	<0.005	<1	1.3	<0.5
3485567	Drill Core	51.7	0.6	<0.05	0.008	<1	1.0	<0.5
3485568	Drill Core	56.9	0.6	<0.05	0.010	<1	0.8	<0.5
3485569	Drill Core	26.6	1.1	0.06	0.013	<1	0.6	<0.5
3485570	Rock	0.3	<0.1	<0.05	<0.005	<1	3.0	<0.5
3485571	Drill Core	30.7	1.1	<0.05	0.005	<1	0.6	<0.5
3485572	Drill Core	31.0	0.7	0.06	0.006	<1	0.6	<0.5
3485573	Drill Core	53.0	0.7	<0.05	0.014	<1	0.6	<0.5
3485574	Drill Core	11.8	1.3	<0.05	<0.005	1	0.8	<0.5
3485575	Drill Core	64.3	0.8	<0.05	<0.005	<1	0.8	<0.5
3485576	Drill Core	71.9	1.5	<0.05	0.016	<1	<0.5	<0.5
3485577	Drill Core	102.6	1.6	<0.05	<0.005	<1	<0.5	0.5
3485578	Drill Core	105.5	1.5	<0.05	0.008	<1	<0.5	0.5
3485579	Drill Core	48.0	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485580	Rock Pulp	200.8	2.0	<0.05	<0.005	2	<0.5	1.0
3485581	Drill Core	55.2	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485582	Drill Core	96.2	1.3	<0.05	<0.005	1	<0.5	0.5
3485583	Drill Core	183.9	0.5	<0.05	0.009	3	<0.5	1.0
3485584	Drill Core	74.4	0.8	<0.05	0.011	2	<0.5	<0.5
3485585	Drill Core	37.2	0.6	<0.05	0.008	<1	<0.5	<0.5
3485586	Drill Core	35.8	0.5	<0.05	0.028	<1	<0.5	<0.5
3485587	Drill Core	53.4	0.5	<0.05	0.005	<1	<0.5	<0.5
3485588	Drill Core	42.5	0.5	<0.05	0.010	<1	<0.5	<0.5
3485589	Drill Core	29.8	0.4	<0.05	0.007	<1	<0.5	<0.5
3485590	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5

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	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485591	Drill Core	4.64	0.006	3.9	189.1	6.0	62	0.2	10.1	25.1	1086	6.06	6	0.4	0.6	1213	0.1	1.8	<0.1	283	7.45
3485592	Drill Core	4.79	0.009	3.4	357.5	4.9	63	0.3	10.0	27.9	1039	5.49	5	0.5	0.6	1124	0.2	1.6	<0.1	219	6.73
3485593	Drill Core	4.44	0.007	5.5	139.8	5.1	49	0.1	7.7	20.0	941	4.90	5	0.3	0.6	1162	<0.1	1.6	<0.1	191	6.51
3485594	Drill Core	2.72	0.011	1.3	218.3	7.9	51	0.2	10.4	42.7	1138	7.17	7	0.4	0.7	1497	0.1	1.9	<0.1	264	8.91
3485595	Core DUP		0.015	1.4	221.6	8.0	52	0.2	10.6	43.9	1152	7.23	7	0.4	0.7	1513	0.1	1.9	<0.1	271	8.96
3485596	Drill Core	6.64	0.014	1.9	290.0	6.7	80	0.2	13.5	30.9	1325	7.08	5	0.4	0.6	991	0.2	2.1	<0.1	283	7.13
3485597	Drill Core	4.80	0.007	1.6	269.7	6.6	73	0.2	13.6	27.6	1392	6.76	6	0.4	0.6	1102	0.1	2.9	<0.1	276	7.92
3485598	Drill Core	2.23	0.011	1.2	118.7	6.0	52	<0.1	10.6	22.0	1015	5.52	6	0.3	0.5	1659	<0.1	2.8	<0.1	225	8.20
3485599	Drill Core	2.43	0.006	4.8	104.1	5.1	49	0.1	7.1	17.4	774	4.34	4	0.3	0.4	797	<0.1	2.3	<0.1	188	5.95
3485600	Rock Pulp	0.07	0.650	337.6	5153.8	19.8	73	1.3	33.2	17.0	521	4.75	60	4.7	16.2	342	<0.1	3.3	1.4	109	2.53
3485601	Drill Core	2.92	0.133	7.1	1667.8	4.5	93	1.0	13.3	28.0	1171	7.26	3	0.4	0.4	455	0.3	1.1	<0.1	287	6.41
3485602	Drill Core	3.15	0.012	2.1	196.3	3.3	73	0.2	9.5	19.0	966	4.72	3	0.6	1.1	334	<0.1	1.0	<0.1	172	4.72
3485603	Drill Core	2.99	0.007	0.9	208.9	5.5	65	0.1	13.5	28.1	1103	6.46	5	0.3	0.5	1109	<0.1	1.9	<0.1	278	6.42
3485604	Drill Core	2.83	0.008	0.9	239.0	5.2	66	0.2	12.5	27.0	1121	5.87	4	0.2	0.5	954	<0.1	1.7	<0.1	266	6.48
3485605	Drill Core	4.22	0.006	3.5	93.4	2.5	63	<0.1	9.8	15.7	1067	4.76	3	1.1	2.4	347	<0.1	0.6	<0.1	139	3.98
3485606	Drill Core	4.51	0.013	3.3	65.3	4.6	61	<0.1	9.8	18.8	1029	4.76	4	1.3	2.5	477	<0.1	1.0	<0.1	147	4.19
3485607	Drill Core	4.66	0.005	3.1	159.3	5.1	71	0.1	10.6	16.2	1099	4.76	4	1.3	2.5	560	<0.1	1.3	<0.1	152	4.05
3485608	Drill Core	4.22	<0.005	3.0	103.3	3.5	68	<0.1	10.3	17.0	1007	4.89	3	1.2	2.3	363	<0.1	0.8	<0.1	140	3.43
3485609	Drill Core	3.95	<0.005	1.7	49.0	3.0	69	0.2	9.8	15.9	892	4.72	5	1.1	2.4	286	2.0	2.6	1.0	134	3.06
3485610	Rock	1.39	<0.005	<0.1	3.2	0.3	3	<0.1	0.3	1.0	119	0.14	<1	0.1	<0.1	64	<0.1	<0.1	<0.1	1	30.84
3485611	Drill Core	4.38	<0.005	3.0	59.0	3.3	70	<0.1	10.1	16.6	936	4.86	3	1.2	2.6	379	<0.1	0.7	<0.1	140	3.25
3485612	Drill Core	4.25	<0.005	3.1	70.5	3.5	70	<0.1	10.1	16.1	990	4.78	3	1.2	2.4	399	<0.1	0.9	<0.1	137	3.64
3485613	Drill Core	4.17	<0.005	2.9	83.7	4.8	69	<0.1	10.0	16.4	1067	4.83	3	1.2	2.4	467	<0.1	1.3	<0.1	142	3.63
3485614	Drill Core	4.47	0.006	3.4	90.4	5.2	71	<0.1	10.1	16.2	1055	4.74	3	1.2	2.3	478	<0.1	1.3	<0.1	136	3.77
3485615	Drill Core	4.55	0.009	3.3	126.6	4.9	73	0.1	10.0	18.8	1038	4.66	3	1.2	2.2	429	<0.1	0.9	<0.1	139	3.75
3485616	Drill Core	4.59	0.009	3.1	129.3	4.7	83	0.1	10.4	17.1	1080	4.81	2	1.2	2.3	384	<0.1	0.6	<0.1	147	3.42
3485617	Drill Core	2.34	0.008	4.3	99.4	5.0	76	<0.1	10.2	18.3	985	4.77	2	1.3	2.2	379	<0.1	0.9	<0.1	143	3.48
3485618	Drill Core	3.54	0.009	9.3	104.9	4.0	74	0.1	11.1	17.1	1058	5.36	4	1.5	2.6	385	<0.1	1.0	<0.1	165	3.46
3485619	Drill Core	3.98	<0.005	1.3	95.6	7.0	82	0.1	20.2	39.2	1680	8.31	8	0.4	0.9	998	0.1	2.9	<0.1	468	9.83
3485620	Rock Pulp	0.07	0.211	105.5	2994.0	22.8	84	0.5	64.8	17.0	601	4.74	19	5.6	19.1	339	0.1	2.2	0.7	134	2.81

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485591	Drill Core	0.193	5.7	8	1.72	688	0.447	10.22	2.363	1.66	0.6	8.9	12	0.5	9.0	2.5	0.1	<1	14	25.1	0.1
3485592	Drill Core	0.167	5.2	8	1.69	746	0.375	9.97	2.339	2.07	0.6	8.4	11	0.4	8.5	2.4	0.1	<1	13	26.4	0.2
3485593	Drill Core	0.149	4.8	6	1.32	648	0.350	9.76	2.965	1.40	0.6	6.7	10	0.3	7.6	2.3	0.1	<1	10	23.1	0.3
3485594	Drill Core	0.129	5.9	10	1.39	304	0.424	10.72	2.522	0.54	0.7	8.7	12	0.4	9.5	2.4	0.1	<1	16	17.8	0.9
3485595	Core DUP	0.135	5.9	10	1.41	297	0.439	10.76	2.490	0.53	0.7	8.8	12	0.4	9.5	2.4	0.1	<1	16	18.5	0.9
3485596	Drill Core	0.097	5.6	16	2.22	719	0.473	9.43	2.227	1.85	0.9	9.5	11	0.5	10.3	2.4	0.1	<1	23	25.8	0.2
3485597	Drill Core	0.125	6.0	13	2.13	682	0.471	9.67	2.141	1.60	0.9	9.5	12	0.5	10.1	2.3	0.1	<1	20	26.2	0.2
3485598	Drill Core	0.117	4.5	6	1.42	587	0.352	10.47	2.248	1.57	0.8	8.5	9	0.4	7.4	2.3	0.1	<1	12	29.2	0.2
3485599	Drill Core	0.106	3.2	5	1.28	837	0.250	10.28	1.665	3.49	0.6	6.3	7	0.3	5.1	1.7	0.1	<1	8	37.6	0.2
3485600	Rock Pulp	0.103	33.5	64	1.38	278	0.491	7.15	2.012	3.20	2.9	80.3	67	3.2	22.4	18.4	1.3	3	12	29.8	0.7
3485601	Drill Core	0.142	5.0	11	1.84	620	0.415	8.43	2.739	2.88	1.9	5.7	10	0.4	7.9	1.8	0.1	<1	14	40.0	0.4
3485602	Drill Core	0.136	7.6	14	1.64	765	0.372	8.93	3.057	3.23	1.4	13.6	16	0.7	10.7	5.9	0.4	<1	12	34.3	<0.1
3485603	Drill Core	0.140	4.5	9	1.96	686	0.426	9.52	2.066	2.16	0.6	9.9	10	0.4	8.2	2.1	0.1	<1	16	30.3	<0.1
3485604	Drill Core	0.139	4.3	9	2.04	746	0.387	8.96	1.821	2.57	0.9	9.2	10	0.4	8.2	2.1	0.1	<1	16	32.8	<0.1
3485605	Drill Core	0.147	12.2	27	1.51	1016	0.474	7.36	3.390	3.38	0.9	42.3	26	1.2	17.3	13.0	0.8	2	13	10.1	<0.1
3485606	Drill Core	0.152	13.2	28	1.55	1104	0.498	7.78	2.930	3.67	0.8	40.0	28	1.1	18.4	13.6	0.8	2	13	9.0	0.1
3485607	Drill Core	0.155	13.7	27	1.73	1038	0.514	7.95	2.734	3.67	0.8	39.6	28	1.2	19.1	14.0	0.9	2	14	12.3	0.1
3485608	Drill Core	0.151	12.9	27	1.66	1088	0.497	7.78	2.990	3.93	0.8	43.0	27	1.2	18.1	13.5	0.8	2	13	12.6	<0.1
3485609	Drill Core	0.151	13.5	26	1.54	1109	0.481	7.68	2.971	4.19	1.0	42.2	28	2.1	17.8	13.1	0.8	2	13	14.0	<0.1
3485610	Rock	0.007	0.9	1	2.19	22	0.010	0.05	0.033	0.02	<0.1	1.2	<1	<0.1	1.8	0.1	<0.1	<1	<1	1.0	<0.1
3485611	Drill Core	0.151	14.0	27	1.58	1006	0.476	7.90	3.149	3.72	0.9	40.6	29	1.2	18.4	13.9	0.9	2	14	11.2	<0.1
3485612	Drill Core	0.147	12.7	27	1.56	907	0.471	7.64	3.159	3.40	0.8	38.4	27	1.1	17.7	13.5	0.8	2	13	9.7	<0.1
3485613	Drill Core	0.147	12.8	27	1.57	699	0.475	7.51	3.185	3.17	0.8	43.3	27	1.1	17.5	13.1	0.8	2	13	9.8	<0.1
3485614	Drill Core	0.150	12.5	27	1.61	838	0.487	7.61	2.981	3.40	1.2	41.4	27	1.2	17.4	13.5	0.8	2	13	9.9	<0.1
3485615	Drill Core	0.144	12.7	27	1.54	1257	0.487	7.59	2.438	4.90	1.1	48.3	27	1.2	17.4	13.2	0.8	2	13	14.7	0.2
3485616	Drill Core	0.152	13.5	28	1.73	1355	0.495	7.69	2.483	5.00	0.8	53.2	28	1.2	18.1	13.3	0.8	2	13	15.6	0.2
3485617	Drill Core	0.148	13.9	27	1.70	1135	0.497	7.60	2.589	4.75	0.8	52.0	29	1.1	17.7	13.0	0.8	2	14	20.4	0.3
3485618	Drill Core	0.164	14.1	28	1.87	1288	0.555	9.00	4.090	5.48	0.9	58.5	30	1.3	19.9	15.1	1.0	2	14	15.8	0.2
3485619	Drill Core	0.225	8.0	28	3.36	431	0.668	8.98	2.127	0.94	1.1	19.2	16	0.6	14.5	3.0	0.2	<1	31	18.9	0.1
3485620	Rock Pulp	0.104	35.4	92	1.63	1097	0.530	8.40	2.537	4.11	5.2	78.2	73	3.4	25.0	18.7	1.4	3	14	36.0	0.3

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485591	Drill Core	30.5	0.4	<0.05	0.007	<1	<0.5	<0.5
3485592	Drill Core	36.4	0.4	<0.05	0.011	1	<0.5	<0.5
3485593	Drill Core	23.8	0.3	<0.05	0.009	1	<0.5	<0.5
3485594	Drill Core	11.3	0.4	<0.05	0.017	4	<0.5	<0.5
3485595	Core DUP	10.7	0.4	<0.05	0.017	3	<0.5	<0.5
3485596	Drill Core	51.8	0.5	<0.05	0.011	1	<0.5	<0.5
3485597	Drill Core	44.1	0.4	<0.05	0.007	<1	<0.5	<0.5
3485598	Drill Core	27.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485599	Drill Core	62.1	0.3	<0.05	0.009	<1	<0.5	<0.5
3485600	Rock Pulp	180.4	2.4	0.09	0.219	3	<0.5	0.9
3485601	Drill Core	82.6	0.2	<0.05	0.006	1	<0.5	<0.5
3485602	Drill Core	85.7	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485603	Drill Core	49.9	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485604	Drill Core	61.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485605	Drill Core	38.5	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485606	Drill Core	40.7	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485607	Drill Core	50.9	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485608	Drill Core	53.2	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485609	Drill Core	54.0	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485610	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485611	Drill Core	41.2	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485612	Drill Core	37.7	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485613	Drill Core	40.9	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485614	Drill Core	48.7	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485615	Drill Core	87.6	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485616	Drill Core	95.4	1.6	<0.05	<0.005	<1	<0.5	<0.5
3485617	Drill Core	102.2	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485618	Drill Core	78.0	1.8	0.06	<0.005	1	<0.5	<0.5
3485619	Drill Core	25.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485620	Rock Pulp	211.4	2.6	0.07	<0.005	2	<0.5	1.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485621	Drill Core	4.71	0.008	1.0	123.5	4.6	81	0.1	21.3	40.3	1715	8.47	7	0.3	0.7	1274	<0.1	3.5	<0.1	453	9.45
3485622	Drill Core	4.64	<0.005	1.4	159.6	7.0	86	0.2	21.0	43.0	1622	8.49	8	0.4	0.8	981	0.1	4.0	<0.1	455	9.08
3485623	Drill Core	4.54	0.005	1.1	254.1	5.2	104	0.2	22.1	47.2	1961	10.17	8	0.4	0.8	886	0.2	2.9	<0.1	537	9.19
3485624	Drill Core	4.91	0.005	1.0	309.2	7.7	80	0.3	20.2	42.0	1598	8.29	8	0.4	0.8	1040	0.2	3.0	<0.1	403	9.09
3485625	Drill Core	4.87	0.010	1.9	212.2	6.0	86	0.2	24.7	43.2	1710	9.03	6	0.4	0.6	869	0.1	2.2	<0.1	388	8.85
3485626	Drill Core	4.56	0.005	1.0	109.9	5.0	74	<0.1	21.3	36.9	1543	7.92	5	0.3	0.6	940	<0.1	1.9	<0.1	344	8.71
3485627	Drill Core	4.65	0.008	1.3	255.4	4.4	80	0.2	23.7	43.8	1542	8.38	5	0.4	0.7	933	0.1	2.1	<0.1	432	8.26
3485628	Drill Core	4.76	0.011	1.8	255.2	5.3	83	0.2	23.0	42.6	1491	8.01	7	0.4	0.7	994	0.1	2.3	<0.1	410	8.15
3485629	Drill Core	4.39	0.012	2.5	295.2	6.4	71	0.3	16.0	32.0	1212	6.72	7	0.5	1.3	966	0.2	2.6	<0.1	307	6.83
3485630	Rock	1.40	<0.005	<0.1	0.9	0.3	2	<0.1	<0.1	0.9	109	0.11	<1	0.2	<0.1	77	<0.1	<0.1	<0.1	1	32.37
3485631	Drill Core	4.85	0.012	1.5	262.8	4.6	99	0.2	21.8	43.2	1761	9.21	5	0.4	0.8	991	0.2	1.9	<0.1	469	7.99
3485632	Drill Core	4.75	0.013	1.5	235.1	3.8	90	0.2	22.8	40.0	1879	9.31	4	0.4	0.8	964	0.1	1.8	<0.1	428	8.98
3485633	Drill Core	5.57	0.007	1.2	277.6	3.6	90	0.2	28.9	43.8	1833	9.73	4	0.3	0.7	741	0.1	1.8	<0.1	431	9.20
3485634	Drill Core	4.79	0.007	1.1	226.0	3.5	79	0.2	26.0	43.4	1624	8.59	4	0.3	0.6	871	<0.1	1.8	<0.1	407	8.73
3485635	Core DUP		0.007	1.1	228.2	3.5	80	0.2	26.4	44.9	1657	8.71	5	0.3	0.6	881	0.1	1.8	<0.1	414	8.76
3485636	Drill Core	4.83	0.010	1.1	203.1	4.5	79	0.2	23.5	41.3	1715	8.93	5	0.4	0.9	1040	0.1	2.5	<0.1	464	9.40
3485637	Drill Core	4.83	0.013	1.0	164.9	5.8	94	0.2	23.8	41.3	1795	8.84	9	0.3	0.6	738	<0.1	2.8	<0.1	434	8.11
3485638	Drill Core	4.28	0.023	2.2	350.7	10.5	107	0.4	24.8	45.1	2229	9.07	20	0.5	0.7	575	0.2	2.5	<0.1	484	7.85
3485639	Drill Core	5.34	0.009	2.5	111.6	35.2	117	0.2	12.9	24.0	1400	5.43	6	1.0	1.8	344	0.1	1.2	<0.1	218	5.65
3485640	Rock Pulp	0.11	0.306	10.1	2343.0	6.2	50	0.5	11.1	14.8	666	5.78	14	1.1	1.6	529	0.2	0.7	0.1	235	2.83
3485641	Drill Core	3.38	0.011	10.5	126.5	44.8	102	0.3	9.7	18.1	1084	4.72	4	1.7	2.3	371	0.5	0.8	0.4	158	4.26
3485642	Drill Core	3.86	0.032	33.0	262.7	64.7	153	0.6	20.8	37.3	2032	8.36	12	1.6	0.6	297	2.1	1.2	0.6	429	8.91
3485643	Drill Core	2.62	0.010	5.5	191.8	7.3	91	0.3	18.9	36.3	1491	7.97	7	0.5	0.6	574	0.2	1.9	<0.1	358	7.01
3485644	Drill Core	3.58	0.011	2.5	294.0	3.4	110	0.4	26.1	45.8	1979	10.23	7	0.3	0.5	303	0.2	1.4	<0.1	466	8.57
3485645	Drill Core	2.86	0.007	1.1	237.6	3.8	95	0.2	24.7	44.1	1673	8.86	6	0.3	0.6	537	<0.1	2.1	<0.1	386	7.60
3485646	Drill Core	4.97	0.011	1.1	169.8	3.2	102	0.2	34.6	51.0	1955	10.93	6	0.2	0.5	410	0.1	1.6	<0.1	485	8.29
3485647	Drill Core	4.63	0.012	1.0	168.4	2.4	110	0.2	36.5	51.8	2085	11.15	4	0.2	0.5	427	0.1	1.6	<0.1	492	8.44
3485648	Drill Core	4.54	0.008	1.1	202.5	2.8	107	0.2	32.0	50.8	1885	10.77	5	0.3	0.5	501	0.1	1.8	<0.1	485	8.62
3485649	Drill Core	4.71	0.008	1.5	133.9	2.0	108	0.1	32.9	52.5	2030	11.56	4	0.3	0.5	420	<0.1	1.6	<0.1	502	9.00
3485650	Rock	1.37	<0.005	<0.1	0.9	0.5	3	<0.1	<0.1	0.8	173	0.12	<1	0.1	<0.1	77	<0.1	<0.1	<0.1	1	31.34

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485621	Drill Core	0.217	7.4	36	3.80	372	0.717	8.71	2.027	0.69	0.8	18.8	15	0.5	14.1	2.3	0.2	<1	32	25.1	<0.1
3485622	Drill Core	0.235	7.7	27	3.41	418	0.708	9.05	2.002	0.90	1.1	15.4	16	0.5	14.4	2.3	0.2	<1	31	22.3	0.2
3485623	Drill Core	0.309	9.1	28	3.96	458	0.855	8.48	1.706	1.06	1.6	18.5	19	0.6	16.3	2.6	0.2	<1	35	26.1	<0.1
3485624	Drill Core	0.221	7.8	24	3.38	489	0.666	9.33	1.933	1.04	0.8	16.3	15	0.5	13.7	2.4	0.2	<1	28	22.8	0.1
3485625	Drill Core	0.156	6.5	32	3.84	491	0.615	8.71	1.778	1.10	0.8	16.0	13	0.6	13.0	2.3	0.2	<1	33	23.4	0.3
3485626	Drill Core	0.167	6.8	28	3.70	557	0.454	9.16	2.077	1.13	0.5	15.7	13	0.5	12.4	2.2	0.1	<1	29	23.9	<0.1
3485627	Drill Core	0.182	7.7	31	3.89	658	0.506	8.89	2.150	1.25	0.5	17.5	15	0.6	13.7	3.1	0.2	<1	32	26.1	<0.1
3485628	Drill Core	0.193	7.6	31	3.80	638	0.478	8.79	1.775	1.52	0.9	17.0	15	0.6	13.7	3.5	0.2	<1	32	28.6	0.2
3485629	Drill Core	0.198	8.8	20	2.75	1451	0.469	9.43	2.417	3.07	0.8	13.2	17	0.6	13.3	5.7	0.3	<1	21	22.1	0.1
3485630	Rock	0.007	1.0	1	1.76	21	0.005	0.06	0.027	0.01	<0.1	1.1	<1	0.1	1.8	<0.1	<0.1	<1	<1	1.0	<0.1
3485631	Drill Core	0.183	7.3	28	3.72	485	0.664	8.75	2.242	0.93	0.7	18.7	15	0.6	14.2	3.0	0.2	<1	33	24.2	<0.1
3485632	Drill Core	0.139	6.2	30	3.71	514	0.658	8.32	1.902	1.06	0.5	21.9	12	0.6	13.3	2.6	0.2	<1	35	21.8	<0.1
3485633	Drill Core	0.166	6.9	36	4.19	601	0.616	7.91	1.625	1.15	0.4	22.7	14	0.5	15.0	2.6	0.2	<1	39	23.4	<0.1
3485634	Drill Core	0.152	6.8	33	4.11	592	0.494	8.02	1.614	1.36	0.3	19.5	14	0.5	13.8	2.3	0.1	<1	35	24.9	<0.1
3485635	Core DUP	0.152	6.7	35	4.19	559	0.507	7.90	1.524	1.31	0.4	20.1	13	0.5	14.0	2.3	0.1	<1	36	24.3	<0.1
3485636	Drill Core	0.176	7.5	32	3.94	623	0.559	8.06	1.734	1.14	0.4	19.4	15	0.5	14.6	3.0	0.2	<1	35	20.3	<0.1
3485637	Drill Core	0.188	6.9	32	3.93	715	0.556	8.18	1.506	1.90	0.6	17.3	14	0.6	13.6	2.7	0.2	<1	34	28.6	0.3
3485638	Drill Core	0.188	7.6	34	3.79	942	0.598	7.43	1.698	2.75	1.1	16.8	15	0.7	14.5	3.7	0.2	2	36	31.1	0.9
3485639	Drill Core	0.157	11.8	25	2.44	1110	0.486	8.21	2.741	5.48	1.3	44.6	24	1.1	15.1	10.1	0.7	2	17	30.5	0.7
3485640	Rock Pulp	0.112	10.7	24	1.26	1408	0.332	8.98	3.656	5.64	0.9	40.8	22	1.9	18.6	2.7	0.2	1	10	13.3	0.3
3485641	Drill Core	0.152	12.6	26	1.93	582	0.454	8.26	2.312	6.31	1.1	69.7	27	1.1	17.0	12.3	0.8	3	13	26.9	1.0
3485642	Drill Core	0.114	5.3	29	3.51	27	0.507	5.31	1.267	4.60	0.8	16.8	11	0.7	12.2	4.9	0.2	5	29	45.1	4.2
3485643	Drill Core	0.170	7.4	25	3.19	1009	0.456	8.01	1.724	4.67	0.7	10.0	14	0.5	13.0	2.7	0.2	1	28	39.4	0.8
3485644	Drill Core	0.121	6.0	41	3.99	487	0.575	6.06	1.901	1.91	0.5	12.6	13	0.6	14.8	2.1	0.1	<1	41	26.2	0.6
3485645	Drill Core	0.170	7.3	33	3.82	704	0.522	7.52	1.795	2.42	0.2	14.2	14	0.5	13.9	2.3	0.1	<1	33	28.4	0.1
3485646	Drill Core	0.072	4.8	51	5.01	635	0.720	6.02	1.461	1.33	0.4	20.2	11	0.7	14.5	2.8	0.2	<1	47	22.9	0.2
3485647	Drill Core	0.066	4.7	53	5.27	797	0.741	5.80	1.430	1.21	0.4	22.4	10	0.7	15.0	2.9	0.2	<1	50	20.4	<0.1
3485648	Drill Core	0.117	5.6	51	4.69	816	0.713	6.20	1.430	1.12	0.6	19.8	12	0.7	14.8	2.7	0.2	<1	45	19.9	0.1
3485649	Drill Core	0.063	4.5	52	5.19	459	0.728	5.16	1.375	0.78	0.5	24.8	10	0.8	15.0	2.7	0.2	<1	50	19.1	<0.1
3485650	Rock	0.006	1.0	1	3.09	56	0.006	0.06	0.030	0.01	<0.1	1.2	<1	<0.1	1.8	<0.1	<0.1	<1	<1	1.1	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485621	Drill Core	22.5	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485622	Drill Core	30.5	0.7	<0.05	<0.005	1	<0.5	<0.5
3485623	Drill Core	36.5	0.9	0.05	<0.005	<1	<0.5	<0.5
3485624	Drill Core	34.0	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485625	Drill Core	39.8	0.8	<0.05	0.005	2	<0.5	<0.5
3485626	Drill Core	37.9	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485627	Drill Core	41.0	0.8	<0.05	0.006	<1	<0.5	<0.5
3485628	Drill Core	54.7	0.8	<0.05	0.009	<1	<0.5	<0.5
3485629	Drill Core	52.3	0.7	<0.05	0.018	<1	<0.5	<0.5
3485630	Rock	0.4	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485631	Drill Core	30.8	0.9	<0.05	0.008	<1	<0.5	<0.5
3485632	Drill Core	35.1	1.0	0.05	0.006	<1	<0.5	<0.5
3485633	Drill Core	36.0	1.0	0.05	0.006	<1	<0.5	<0.5
3485634	Drill Core	44.5	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485635	Core DUP	42.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485636	Drill Core	31.2	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485637	Drill Core	60.1	0.8	<0.05	<0.005	1	<0.5	<0.5
3485638	Drill Core	76.4	0.8	0.05	0.007	1	<0.5	<0.5
3485639	Drill Core	110.9	1.1	<0.05	<0.005	1	<0.5	0.6
3485640	Rock Pulp	104.3	1.4	0.09	0.041	3	<0.5	<0.5
3485641	Drill Core	118.6	1.6	<0.05	0.078	2	<0.5	0.7
3485642	Drill Core	150.4	0.6	<0.05	0.045	6	<0.5	1.0
3485643	Drill Core	130.3	0.5	<0.05	0.006	2	<0.5	0.7
3485644	Drill Core	65.5	0.7	0.06	0.006	1	<0.5	<0.5
3485645	Drill Core	72.0	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485646	Drill Core	43.6	1.0	0.06	<0.005	<1	<0.5	<0.5
3485647	Drill Core	31.3	1.1	0.07	<0.005	<1	<0.5	<0.5
3485648	Drill Core	27.0	1.0	0.06	<0.005	<1	<0.5	<0.5
3485649	Drill Core	22.2	1.2	0.06	<0.005	<1	<0.5	<0.5
3485650	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485651	Drill Core	4.52	0.005	1.4	124.5	4.3	78	0.1	22.4	36.0	1460	8.61	6	0.3	0.7	699	0.1	2.1	<0.1	358	7.61
3485652	Drill Core	2.64	<0.005	1.6	31.4	10.2	27	<0.1	8.9	7.9	988	6.84	6	0.4	0.7	2103	0.1	4.6	<0.1	303	10.34
3485653	Drill Core	3.74	0.005	1.7	272.4	6.1	70	0.3	19.7	36.3	1430	7.72	8	0.4	0.8	1297	0.2	2.7	<0.1	358	8.88
3485654	Drill Core	2.68	0.012	2.5	273.9	4.7	60	0.3	11.6	23.3	915	5.15	12	0.3	0.6	775	0.1	1.8	<0.1	234	7.26
3485655	Drill Core	5.26	0.008	3.0	169.0	5.2	49	0.2	9.1	16.5	803	4.23	8	0.3	0.6	850	<0.1	1.6	<0.1	170	7.31
3485656	Drill Core	4.66	0.007	3.8	95.5	4.5	76	0.1	28.7	32.5	1417	7.48	5	0.4	0.6	711	<0.1	1.0	<0.1	306	8.76
3485657	Drill Core	4.43	0.006	1.5	169.2	5.0	57	0.2	15.1	22.8	1046	5.26	6	0.4	0.7	988	0.1	1.9	<0.1	246	7.53
3485658	Drill Core	4.39	0.007	1.0	148.4	4.2	56	0.2	14.0	22.7	945	5.08	6	0.2	0.5	1073	<0.1	1.5	<0.1	242	7.84
3485659	Drill Core	3.82	0.007	8.4	210.2	4.7	46	0.2	12.4	20.2	784	4.35	6	0.2	0.4	1243	0.1	1.6	<0.1	175	7.93
3485660	Rock Pulp	0.07	0.217	91.8	2742.4	19.0	75	0.4	58.9	15.2	563	4.43	16	4.5	15.9	309	0.1	2.0	0.6	126	2.61
3485661	Drill Core	3.53	0.009	10.8	430.8	6.7	74	0.5	20.6	27.3	1080	6.06	7	0.5	0.6	1136	0.3	2.0	<0.1	264	8.83
3485662	Drill Core	4.49	0.009	1.6	70.4	4.8	64	0.1	23.3	28.4	1077	6.52	6	0.3	0.6	989	0.1	0.9	<0.1	278	8.60
3485663	Drill Core	4.48	0.006	1.3	203.5	4.6	67	0.2	23.4	32.1	1141	6.77	6	0.3	0.6	1052	0.1	1.0	<0.1	286	8.71
3485664	Drill Core	4.50	0.011	13.8	359.0	4.3	74	0.3	22.6	38.3	1297	7.45	5	0.6	0.5	870	0.1	1.0	<0.1	338	8.63
3485665	Drill Core	4.34	0.016	14.1	297.8	5.2	83	0.3	27.0	40.2	1376	7.79	7	0.4	0.5	950	0.1	1.6	<0.1	379	9.16
3485666	Drill Core	3.42	0.016	5.4	225.3	4.7	85	0.2	26.2	36.4	1305	7.28	7	0.3	0.6	684	0.1	2.1	<0.1	350	7.92
3485667	Drill Core	2.92	0.018	2.7	120.7	9.0	87	0.1	26.8	36.0	1423	7.41	9	0.3	0.4	606	0.1	2.2	<0.1	355	8.40
3485668	Drill Core	2.75	0.023	23.4	332.2	15.1	109	0.4	36.4	40.6	1832	7.23	17	0.8	0.5	105	0.2	1.4	0.3	403	9.05
3485669	Drill Core	4.29	0.020	1.6	357.8	5.8	126	0.4	36.7	41.7	2100	7.80	23	0.2	0.4	200	0.2	2.1	<0.1	377	9.30
3485670	Rock	1.38	<0.005	<0.1	1.4	0.4	2	<0.1	<0.1	0.8	164	0.11	<1	0.1	<0.1	82	<0.1	<0.1	<0.1	1	32.84
3485671	Drill Core	2.15	0.015	2.0	473.5	5.3	127	0.6	41.3	49.0	2110	8.91	23	0.3	0.5	225	0.2	1.7	<0.1	429	8.74
3485672	Drill Core	4.37	0.019	2.8	377.1	6.9	202	0.5	36.8	43.7	2721	8.49	28	0.4	0.4	228	1.0	1.9	<0.1	418	10.73
3485673	Drill Core	4.01	0.025	1.0	429.3	5.0	85	0.4	41.3	49.8	1593	9.27	6	0.2	0.4	712	0.1	2.7	<0.1	475	9.14
3485674	Drill Core	3.55	0.046	1.5	413.9	5.4	92	0.3	40.7	50.3	1670	9.93	6	0.2	0.4	688	0.1	2.0	<0.1	511	9.37
3485675	Core DUP		0.048	1.5	397.6	5.1	90	0.3	39.6	49.9	1625	9.58	6	0.2	0.4	652	0.1	2.0	<0.1	495	9.08
3485676	Drill Core	2.54	0.034	1.5	346.5	4.4	99	0.3	40.8	51.1	1874	10.04	5	0.3	0.6	396	0.1	1.5	<0.1	528	9.73
3485677	Drill Core	4.69	0.011	1.3	378.4	4.8	100	0.3	37.8	47.1	1753	9.39	5	0.2	0.4	350	0.2	1.4	<0.1	494	8.53
3485678	Drill Core	3.52	0.017	63.8	127.8	19.4	57	0.2	12.6	19.3	2026	4.88	11	2.3	0.2	243	0.2	0.7	0.6	200	17.96
3485679	Drill Core	4.81	0.015	10.7	355.1	5.9	97	0.3	35.8	44.5	1688	9.28	5	0.3	0.3	333	0.2	1.6	0.1	519	8.18
3485680	Rock Pulp	0.06	0.642	326.4	5074.1	17.4	66	1.2	32.1	15.7	528	4.66	53	4.1	13.9	334	<0.1	2.9	1.2	115	2.49

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485651	Drill Core	0.077	5.5	33	3.32	875	0.499	8.11	2.014	1.86	0.6	17.6	11	0.6	11.7	2.7	0.2	<1	32	20.2	0.1
3485652	Drill Core	0.081	4.9	12	1.16	402	0.241	10.64	1.932	1.12	0.5	10.0	9	0.4	7.3	2.1	0.1	<1	12	7.1	<0.1
3485653	Drill Core	0.129	6.4	32	3.14	438	0.459	9.31	1.569	1.23	0.7	16.6	12	0.5	12.0	3.0	0.2	<1	28	20.3	0.1
3485654	Drill Core	0.116	4.0	16	1.61	839	0.344	10.16	2.315	3.05	0.7	8.1	8	0.4	7.3	2.1	0.1	<1	13	26.3	0.8
3485655	Drill Core	0.091	3.6	10	1.23	1017	0.287	10.06	2.134	3.66	0.6	7.5	7	0.4	5.5	2.3	0.1	<1	9	30.3	0.5
3485656	Drill Core	0.056	4.4	44	3.31	595	0.441	8.70	1.628	1.68	0.5	17.9	9	0.6	10.3	2.4	0.1	<1	32	23.2	0.2
3485657	Drill Core	0.101	4.3	22	2.10	872	0.370	9.76	1.949	2.72	0.6	13.8	9	0.4	8.0	2.6	0.2	<1	18	21.1	<0.1
3485658	Drill Core	0.068	3.2	24	1.72	797	0.342	10.10	1.783	2.54	0.5	11.4	7	0.5	6.3	2.4	0.2	<1	14	21.3	<0.1
3485659	Drill Core	0.040	2.2	14	1.23	783	0.253	10.05	1.831	2.46	0.3	9.2	4	0.4	4.4	2.1	0.1	<1	11	26.5	0.1
3485660	Rock Pulp	0.097	31.7	87	1.50	1007	0.497	7.70	2.327	3.76	4.4	71.7	65	3.0	22.8	16.5	1.3	3	12	33.5	0.3
3485661	Drill Core	0.027	3.9	23	2.39	647	0.356	11.14	2.200	1.48	0.5	12.3	7	2.5	7.0	2.6	0.2	<1	20	23.9	0.2
3485662	Drill Core	0.044	3.9	32	2.55	887	0.357	10.64	1.541	1.98	0.4	14.1	7	0.5	7.1	2.4	0.2	<1	21	23.6	0.2
3485663	Drill Core	0.057	4.3	25	2.91	753	0.385	10.45	1.756	1.49	0.4	14.8	8	0.5	7.9	2.7	0.2	<1	23	24.7	0.1
3485664	Drill Core	0.043	3.7	27	3.53	685	0.411	9.62	1.440	1.69	0.4	16.3	7	0.5	8.2	2.4	0.1	<1	29	27.2	0.1
3485665	Drill Core	0.044	3.8	34	3.66	658	0.455	9.67	1.397	1.65	0.5	16.3	7	0.6	8.8	2.4	0.1	<1	32	28.2	0.2
3485666	Drill Core	0.046	4.1	39	3.48	790	0.420	9.08	1.849	2.31	0.8	15.8	8	0.5	9.1	2.3	0.1	<1	32	30.4	0.2
3485667	Drill Core	0.037	3.4	42	3.61	687	0.421	9.15	1.361	2.80	0.6	13.6	7	0.5	8.3	1.9	0.1	<1	31	34.0	0.4
3485668	Drill Core	0.048	3.4	55	3.98	339	0.422	6.41	2.227	1.71	1.9	7.4	7	0.7	8.9	2.1	<0.1	2	35	40.3	1.4
3485669	Drill Core	0.043	3.5	40	4.10	331	0.450	6.81	1.642	1.42	1.2	8.6	7	0.5	8.3	1.5	<0.1	<1	31	37.3	1.1
3485670	Rock	0.006	1.0	1	2.65	14	0.005	0.07	0.033	0.01	<0.1	1.2	<1	<0.1	1.9	<0.1	<0.1	<1	<1	0.8	<0.1
3485671	Drill Core	0.042	3.4	47	4.44	312	0.512	7.63	1.883	1.28	0.8	8.9	7	0.5	9.0	1.6	0.1	<1	36	48.8	1.2
3485672	Drill Core	0.046	3.6	47	4.34	310	0.489	6.50	1.390	1.96	1.9	8.5	8	0.5	9.2	1.4	<0.1	<1	35	48.0	1.6
3485673	Drill Core	0.038	3.3	54	4.78	381	0.549	7.79	1.241	1.53	0.7	17.6	7	0.5	9.7	1.5	<0.1	<1	40	30.2	0.2
3485674	Drill Core	0.041	3.5	67	4.71	332	0.566	7.31	1.220	1.47	0.7	19.1	8	0.6	10.3	1.7	0.1	<1	42	29.5	0.2
3485675	Core DUP	0.038	3.3	66	4.60	310	0.558	6.96	0.967	1.39	0.7	18.8	7	0.6	10.0	1.6	0.1	<1	41	28.7	0.2
3485676	Drill Core	0.053	3.9	80	5.05	262	0.590	5.75	1.429	1.06	0.8	22.3	9	0.6	12.0	1.9	0.1	<1	48	26.8	0.2
3485677	Drill Core	0.037	3.1	79	4.68	608	0.582	6.81	1.288	2.40	0.6	18.4	7	0.5	10.1	1.5	<0.1	<1	44	35.0	0.1
3485678	Drill Core	0.020	2.4	19	2.24	30	0.184	3.42	1.647	1.73	1.2	7.3	5	0.4	5.9	2.2	<0.1	3	13	11.2	3.4
3485679	Drill Core	0.031	3.1	67	4.38	582	0.592	6.60	1.209	2.56	1.0	17.4	7	0.5	9.7	1.5	<0.1	2	42	35.3	0.4
3485680	Rock Pulp	0.099	28.9	65	1.37	900	0.488	7.32	2.150	3.53	3.2	80.9	60	2.9	20.7	17.1	1.4	3	11	27.7	0.7

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485651	Drill Core	48.5	0.9	0.05	<0.005	<1	<0.5	<0.5
3485652	Drill Core	14.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485653	Drill Core	36.4	0.8	0.06	<0.005	<1	<0.5	<0.5
3485654	Drill Core	43.3	0.4	<0.05	0.014	1	<0.5	<0.5
3485655	Drill Core	51.3	0.3	<0.05	0.011	1	<0.5	<0.5
3485656	Drill Core	50.1	0.8	<0.05	0.007	<1	<0.5	<0.5
3485657	Drill Core	25.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485658	Drill Core	19.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485659	Drill Core	16.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485660	Rock Pulp	192.3	2.4	0.06	<0.005	2	<0.5	1.0
3485661	Drill Core	38.7	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485662	Drill Core	49.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485663	Drill Core	43.8	0.6	<0.05	<0.005	1	<0.5	<0.5
3485664	Drill Core	53.7	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485665	Drill Core	53.1	0.8	<0.05	<0.005	1	<0.5	<0.5
3485666	Drill Core	60.1	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485667	Drill Core	77.7	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485668	Drill Core	56.1	0.4	<0.05	0.040	2	<0.5	<0.5
3485669	Drill Core	49.5	0.5	<0.05	0.005	1	<0.5	<0.5
3485670	Rock	0.3	<0.1	<0.05	<0.005	2	<0.5	<0.5
3485671	Drill Core	43.8	0.5	<0.05	<0.005	1	<0.5	<0.5
3485672	Drill Core	78.6	0.5	<0.05	0.007	2	<0.5	<0.5
3485673	Drill Core	54.6	0.8	<0.05	<0.005	1	<0.5	<0.5
3485674	Drill Core	53.8	0.9	<0.05	<0.005	1	<0.5	<0.5
3485675	Core DUP	51.4	0.8	<0.05	<0.005	1	<0.5	<0.5
3485676	Drill Core	38.2	1.0	0.05	<0.005	1	<0.5	<0.5
3485677	Drill Core	65.1	0.9	<0.05	<0.005	1	<0.5	<0.5
3485678	Drill Core	31.7	0.3	<0.05	0.082	6	<0.5	<0.5
3485679	Drill Core	72.4	0.8	<0.05	0.016	1	<0.5	<0.5
3485680	Rock Pulp	167.7	2.5	0.08	0.225	3	<0.5	0.9

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485681	Drill Core	4.67	0.017	13.3	286.8	10.2	78	0.3	25.1	42.8	1420	6.64	8	0.5	0.3	400	0.2	3.8	0.2	362	10.42
3485682	Drill Core	4.65	0.014	1.4	252.9	13.6	97	0.2	32.1	42.1	1502	8.26	6	0.2	0.4	750	0.6	3.7	<0.1	412	8.38
3485683	Drill Core	4.76	0.012	1.0	360.3	6.2	77	0.3	31.1	45.6	1449	8.43	8	0.2	0.4	788	0.1	4.0	<0.1	418	8.81
3485684	Drill Core	4.81	0.014	1.1	350.6	5.1	84	0.3	34.8	48.2	1645	9.45	6	0.2	0.4	832	0.1	3.8	<0.1	492	9.52
3485685	Drill Core	4.49	0.009	1.1	307.3	3.8	88	0.3	34.5	53.1	1811	9.68	4	0.2	0.4	246	<0.1	2.3	<0.1	512	9.41
3485686	Drill Core	5.32	0.010	2.0	323.1	3.7	97	0.3	38.8	50.2	1759	10.23	6	0.4	0.4	233	0.2	1.5	<0.1	414	8.69
3485687	Drill Core	4.75	0.027	1.6	359.9	5.4	105	0.3	35.2	47.4	1710	9.75	16	0.4	0.4	403	0.2	1.6	<0.1	383	8.28
3485688	Drill Core	4.35	0.013	2.8	320.6	6.2	139	0.3	46.1	55.6	2079	11.41	8	0.5	0.5	197	0.2	1.1	<0.1	467	10.35
3485689	Drill Core	2.88	0.008	2.1	172.2	3.9	106	0.1	36.6	45.0	1658	9.57	6	0.5	1.0	542	0.1	1.4	<0.1	387	8.14
3485690	Rock	1.37	<0.005	<0.1	1.3	0.4	2	<0.1	<0.1	0.9	152	0.12	<1	0.1	<0.1	79	<0.1	<0.1	<0.1	2	31.91
3485691	Drill Core	4.99	0.014	2.6	307.9	4.6	121	0.2	38.5	48.6	1755	10.19	8	0.6	1.2	898	0.1	1.7	<0.1	384	8.92
3485692	Drill Core	5.20	0.021	1.1	214.7	4.3	109	0.1	38.0	43.5	1722	10.10	7	0.2	0.5	808	<0.1	1.2	<0.1	421	9.97
3485693	Drill Core	4.88	0.013	1.5	188.7	6.5	99	0.2	25.9	40.5	1413	8.47	8	0.5	1.1	760	0.1	1.1	<0.1	327	8.08
3485694	Drill Core	3.57	0.011	1.8	319.6	6.0	93	0.3	32.5	43.2	1644	8.89	7	0.5	0.9	756	0.2	1.0	<0.1	371	7.36
3485695	Drill Core	5.51	0.008	8.1	288.0	19.6	113	0.4	25.5	38.7	1448	7.82	7	1.0	0.7	583	0.4	0.7	0.2	340	7.85
3485696	Drill Core	3.50	0.008	1.4	214.6	5.6	71	0.4	27.0	34.8	1316	7.08	4	0.5	0.9	741	<0.1	0.7	<0.1	269	5.70
3485697	Drill Core	4.51	0.011	1.3	223.8	5.3	61	0.3	26.7	34.4	1351	7.64	7	0.4	1.0	1004	<0.1	1.3	<0.1	283	6.98
3485698	Drill Core	3.46	0.016	1.4	248.2	5.1	67	0.4	21.1	32.0	1288	6.77	6	0.4	0.8	628	0.2	0.8	<0.1	259	6.27
3485699	Drill Core	3.36	0.037	11.0	76.8	18.1	75	0.1	27.9	32.9	1172	5.58	7	1.2	1.0	289	0.2	0.7	0.2	218	6.46
3485700	Rock Pulp	0.07	0.620	339.5	5170.8	20.7	74	1.4	37.2	17.5	535	4.72	68	5.1	16.6	346	<0.1	3.2	1.4	116	2.55
3485701	Drill Core	4.27	0.008	3.2	85.8	4.7	48	0.1	9.8	12.6	736	4.32	4	1.1	2.4	147	0.1	0.5	<0.1	142	4.99
3485702	Drill Core	2.97	0.012	4.1	165.8	4.9	62	0.3	12.9	22.2	811	5.27	6	0.9	2.2	160	0.2	0.8	<0.1	183	5.02
3485703	Drill Core	3.85	0.009	1.1	369.8	12.7	99	0.4	13.2	35.8	1212	7.72	6	0.4	0.7	678	0.4	1.3	<0.1	330	3.69
3485704	Drill Core	4.68	0.008	1.4	225.7	9.6	97	0.2	10.8	26.5	1207	6.27	5	0.5	1.1	476	0.2	1.0	<0.1	229	3.48
3485705	Drill Core	3.99	0.006	2.2	160.4	7.5	77	0.2	11.8	27.6	1174	6.58	5	0.5	1.0	755	0.1	1.5	<0.1	272	4.37
3485706	Drill Core	4.18	0.018	9.2	246.0	46.8	99	0.3	11.2	26.0	1089	5.67	9	0.8	0.6	671	0.5	2.2	0.2	240	5.10
3485707	Drill Core	4.90	0.012	9.0	308.1	11.7	78	0.3	11.4	30.1	1018	6.24	7	0.4	0.6	842	0.2	2.0	<0.1	273	4.40
3485708	Drill Core	4.65	0.013	5.9	519.7	8.1	65	0.3	13.5	35.1	1081	7.64	8	0.4	0.6	1122	0.2	1.7	<0.1	362	6.61
3485709	Drill Core	4.16	0.011	1.0	328.8	9.1	64	0.2	16.5	41.3	1177	8.96	8	0.4	0.7	1342	0.2	2.1	<0.1	447	7.59
3485710	Rock	1.46	<0.005	<0.1	2.1	0.3	2	<0.1	<0.1	0.9	118	0.12	<1	0.1	<0.1	79	<0.1	<0.1	<0.1	2	32.30

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485681	Drill Core	0.029	2.5	37	3.25	805	0.387	6.58	1.405	3.34	1.1	8.3	5	0.4	6.7	1.5	<0.1	1	25	26.8	1.4
3485682	Drill Core	0.044	3.3	52	4.19	526	0.508	8.80	0.963	2.53	0.8	15.5	7	0.4	8.4	1.4	<0.1	<1	33	34.9	0.8
3485683	Drill Core	0.044	3.2	54	4.26	418	0.510	8.44	0.877	1.91	0.4	14.8	7	0.5	8.4	1.4	<0.1	<1	34	30.1	0.3
3485684	Drill Core	0.039	3.1	64	4.91	301	0.583	7.47	0.788	1.33	0.4	18.7	7	0.5	10.1	1.3	<0.1	<1	43	26.4	0.2
3485685	Drill Core	0.038	3.0	81	4.55	401	0.614	5.98	1.351	2.42	1.4	13.7	7	0.6	10.0	1.4	<0.1	1	44	32.9	0.9
3485686	Drill Core	0.280	5.2	95	4.57	515	0.555	5.98	1.518	3.19	0.7	9.6	11	0.5	11.5	1.6	<0.1	<1	36	45.8	1.0
3485687	Drill Core	0.309	4.7	77	4.07	445	0.507	6.34	0.830	2.75	0.6	12.2	10	0.5	10.9	0.8	<0.1	<1	32	35.0	1.4
3485688	Drill Core	0.249	5.6	119	4.65	318	0.678	5.16	0.821	2.66	0.6	14.6	12	0.7	14.0	1.5	0.1	1	43	47.7	1.4
3485689	Drill Core	0.210	6.1	78	4.19	335	0.594	6.69	1.880	1.47	0.4	19.3	12	0.6	12.5	2.3	0.2	<1	34	25.0	0.2
3485690	Rock	0.007	1.2	1	2.06	11	0.007	0.07	0.026	0.02	<0.1	1.2	<1	<0.1	1.9	<0.1	<0.1	<1	<1	1.0	<0.1
3485691	Drill Core	0.352	8.6	57	4.22	443	0.622	7.85	0.923	1.57	0.5	19.3	17	0.8	15.4	2.8	0.2	<1	32	29.9	0.3
3485692	Drill Core	0.153	4.8	65	4.11	383	0.652	7.84	0.587	1.23	0.3	18.1	10	0.6	11.8	1.2	<0.1	<1	36	22.7	0.1
3485693	Drill Core	0.349	9.5	43	3.50	717	0.564	8.22	1.445	2.43	0.6	16.6	18	0.6	14.3	2.7	0.2	<1	25	31.0	0.4
3485694	Drill Core	0.279	11.0	56	3.84	1038	0.582	7.29	1.653	2.58	0.7	14.8	22	0.7	16.6	3.3	0.2	1	29	33.5	0.6
3485695	Drill Core	0.327	10.9	43	3.15	893	0.497	7.37	1.872	4.07	0.9	9.9	21	0.6	15.1	2.7	0.1	3	24	44.3	1.1
3485696	Drill Core	0.244	11.2	48	2.91	1644	0.463	8.72	2.500	3.68	0.5	13.0	20	0.5	14.5	3.9	0.2	<1	23	29.8	0.2
3485697	Drill Core	0.248	11.3	42	2.93	1508	0.499	8.58	2.374	2.89	0.4	14.4	21	0.6	14.8	3.8	0.2	<1	23	21.1	<0.1
3485698	Drill Core	0.256	11.6	36	2.67	1559	0.459	8.46	2.744	3.53	0.9	9.5	21	0.6	14.2	3.8	0.2	<1	19	29.2	0.2
3485699	Drill Core	0.197	9.9	43	2.34	328	0.426	7.40	2.005	5.48	2.4	12.9	18	0.6	12.2	5.0	0.3	1	18	20.4	1.4
3485700	Rock Pulp	0.104	33.8	68	1.40	742	0.491	7.62	2.166	3.49	3.4	81.4	66	3.2	22.1	18.4	1.4	3	12	28.7	0.7
3485701	Drill Core	0.147	13.2	24	1.22	1069	0.452	8.09	3.138	6.19	2.9	44.4	26	1.0	15.6	11.8	0.8	2	11	10.0	0.3
3485702	Drill Core	0.170	11.8	28	1.53	1068	0.461	8.20	2.987	6.14	6.3	33.6	24	1.0	15.5	10.2	0.7	2	14	12.8	0.3
3485703	Drill Core	0.229	7.9	14	2.38	1429	0.544	8.99	3.476	3.37	1.3	9.7	15	0.6	10.3	3.2	0.2	<1	17	28.6	0.3
3485704	Drill Core	0.244	9.5	13	2.19	1466	0.447	9.00	3.437	4.22	1.1	15.8	18	0.7	11.4	5.6	0.4	1	13	29.2	0.3
3485705	Drill Core	0.176	7.5	13	2.02	1285	0.473	9.31	3.352	3.84	0.8	16.0	15	0.6	10.4	5.0	0.3	1	15	29.8	0.2
3485706	Drill Core	0.221	7.3	8	2.07	747	0.384	8.85	1.849	6.27	1.2	5.8	13	0.6	8.8	2.9	0.1	1	12	30.1	1.2
3485707	Drill Core	0.273	7.2	9	2.18	1671	0.427	9.84	2.817	4.16	0.8	7.0	14	0.6	9.8	3.3	0.2	1	12	37.2	0.4
3485708	Drill Core	0.354	9.0	10	2.54	911	0.521	9.91	2.610	2.56	0.6	9.5	17	0.7	12.0	3.0	0.2	<1	16	29.5	0.2
3485709	Drill Core	0.353	10.3	14	2.49	774	0.645	9.77	2.234	1.54	0.7	11.0	19	0.6	14.1	2.8	0.2	<1	20	25.2	0.2
3485710	Rock	0.009	1.0	1	1.84	26	0.007	0.09	0.040	0.02	<0.1	1.4	<1	<0.1	2.0	0.1	<0.1	<1	<1	1.0	<0.1

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485681	Drill Core	63.2	0.4	<0.05	0.012	3	<0.5	<0.5
3485682	Drill Core	68.3	0.7	<0.05	<0.005	5	<0.5	<0.5
3485683	Drill Core	65.0	0.7	<0.05	<0.005	2	<0.5	<0.5
3485684	Drill Core	47.0	0.9	<0.05	<0.005	2	<0.5	<0.5
3485685	Drill Core	72.2	0.7	<0.05	<0.005	3	<0.5	<0.5
3485686	Drill Core	116.1	0.5	<0.05	0.005	1	<0.5	0.6
3485687	Drill Core	84.0	0.6	<0.05	0.007	3	<0.5	<0.5
3485688	Drill Core	106.8	0.7	0.06	<0.005	2	<0.5	0.6
3485689	Drill Core	53.1	0.8	0.06	<0.005	<1	<0.5	<0.5
3485690	Rock	0.6	<0.1	<0.05	<0.005	2	<0.5	<0.5
3485691	Drill Core	54.6	0.9	0.06	0.007	1	<0.5	<0.5
3485692	Drill Core	41.1	0.8	0.07	<0.005	1	<0.5	<0.5
3485693	Drill Core	71.7	0.7	0.06	<0.005	1	<0.5	<0.5
3485694	Drill Core	83.0	0.7	0.07	<0.005	1	<0.5	<0.5
3485695	Drill Core	132.5	0.5	0.05	0.012	2	<0.5	0.7
3485696	Drill Core	81.7	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485697	Drill Core	57.8	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485698	Drill Core	85.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485699	Drill Core	92.6	0.5	<0.05	0.015	2	<0.5	<0.5
3485700	Rock Pulp	179.6	2.6	0.09	0.233	3	<0.5	0.9
3485701	Drill Core	61.2	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485702	Drill Core	60.5	1.1	<0.05	<0.005	1	<0.5	<0.5
3485703	Drill Core	55.8	0.5	<0.05	<0.005	1	<0.5	<0.5
3485704	Drill Core	70.0	0.6	<0.05	<0.005	1	<0.5	<0.5
3485705	Drill Core	65.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485706	Drill Core	82.6	0.3	<0.05	0.010	3	<0.5	<0.5
3485707	Drill Core	70.9	0.3	<0.05	0.007	1	<0.5	<0.5
3485708	Drill Core	63.0	0.4	<0.05	0.007	1	<0.5	<0.5
3485709	Drill Core	47.3	0.6	<0.05	<0.005	1	<0.5	<0.5
3485710	Rock	0.6	<0.1	<0.05	<0.005	2	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485711	Drill Core	4.84	0.008	1.2	191.2	6.0	54	0.1	19.9	34.5	1175	8.56	6	0.4	0.8	1004	0.1	1.8	<0.1	400	7.56
3485712	Drill Core	5.00	0.007	1.1	309.1	5.8	53	0.2	17.9	38.9	1066	7.74	8	0.5	1.2	1623	0.1	3.9	<0.1	296	7.80
3485713	Drill Core	4.88	0.006	0.9	195.0	5.2	51	0.2	8.5	27.5	911	6.28	8	0.4	0.8	1372	<0.1	2.8	<0.1	230	6.53
3485714	Drill Core	4.52	0.006	0.7	128.2	5.0	44	<0.1	11.1	28.4	925	6.62	6	0.3	0.7	1355	<0.1	1.3	<0.1	248	7.41
3485715	Core DUP		0.012	0.7	128.7	5.0	43	<0.1	10.9	28.5	923	6.57	5	0.3	0.7	1367	<0.1	1.2	<0.1	249	7.39
3485716	Drill Core	4.77	0.009	0.8	199.1	6.2	66	0.2	11.3	41.2	1299	7.83	10	0.3	0.6	1658	<0.1	4.4	<0.1	340	8.64
3485717	Drill Core	3.07	0.008	0.8	255.2	5.7	76	0.2	11.0	38.0	1415	8.26	6	0.3	0.8	1353	<0.1	1.9	<0.1	365	7.11
3485718	Drill Core	3.61	0.008	3.3	100.6	4.0	71	0.1	12.3	24.6	1077	5.43	4	1.4	2.6	492	<0.1	0.9	<0.1	177	3.93
3485719	Drill Core	2.99	0.008	4.1	98.0	6.6	77	0.1	12.1	18.8	1019	5.12	4	1.5	2.8	436	<0.1	0.9	<0.1	159	3.41
3485720	Rock Pulp	0.13	0.216	103.5	2813.5	20.9	80	0.5	68.1	15.8	573	4.52	17	5.1	18.3	321	0.1	2.1	0.6	129	2.69
3485721	Drill Core	3.85	0.010	2.0	177.8	5.8	82	0.1	27.3	34.4	1524	7.43	4	0.4	0.8	606	0.1	0.7	<0.1	289	6.57
3485722	Drill Core	4.72	0.011	1.8	197.8	6.3	78	0.2	29.1	35.2	1602	7.24	4	0.4	0.8	926	0.1	1.0	<0.1	291	8.08
3485723	Drill Core	4.29	0.010	1.7	208.2	7.0	84	0.2	27.5	32.9	1490	7.50	4	0.3	0.7	1060	0.2	1.7	<0.1	298	7.32
3485724	Drill Core	4.43	0.012	1.6	203.5	5.4	86	0.2	28.8	34.7	1424	7.29	4	0.5	1.2	582	0.1	0.6	<0.1	268	6.15
3485725	Drill Core	4.59	0.010	2.3	164.1	6.7	71	0.1	26.6	34.0	1423	7.40	4	0.5	1.0	888	0.1	1.0	<0.1	299	8.14
3485726	Drill Core	4.73	0.009	1.6	171.5	6.7	79	0.2	28.4	35.4	1535	7.56	4	0.4	0.8	1152	0.1	1.0	<0.1	297	7.71
3485727	Drill Core	5.27	0.009	1.9	173.2	7.0	76	0.1	31.3	40.1	1592	8.21	5	0.4	0.8	1198	0.1	1.3	<0.1	336	8.93
3485728	Drill Core	4.51	0.009	1.2	205.6	4.5	92	0.2	35.9	47.2	1845	9.48	5	0.2	0.4	657	0.1	0.9	<0.1	428	8.69
3485729	Drill Core	5.72	0.009	0.7	209.7	3.5	91	0.2	35.5	46.5	1806	9.45	5	0.1	0.3	601	0.1	0.3	<0.1	432	8.85
3485730	Rock	1.36	<0.005	<0.1	0.7	0.5	3	<0.1	<0.1	1.0	153	0.13	1	<0.1	<0.1	78	<0.1	<0.1	<0.1	2	32.25
3485731	Drill Core	5.16	0.012	1.0	255.3	9.2	120	0.2	44.5	55.3	2141	12.52	4	0.1	0.3	428	0.1	0.3	<0.1	517	9.63
3485732	Drill Core	2.53	0.015	0.9	259.6	5.5	100	0.2	36.7	46.2	1866	10.57	3	0.2	0.4	622	0.1	0.4	<0.1	373	9.14
3485733	Drill Core	4.22	0.006	1.5	78.4	7.3	112	<0.1	52.1	52.7	2121	12.47	3	0.3	0.4	345	0.1	0.3	<0.1	480	9.82
3485734	Drill Core	2.03	0.011	4.2	175.0	78.6	102	0.3	3.5	17.6	1393	5.27	4	1.6	3.0	566	0.4	0.6	0.3	171	3.91
3485735	Drill Core	5.14	0.006	1.3	36.1	3.1	108	<0.1	64.3	58.3	2135	12.92	3	0.2	0.3	168	<0.1	0.3	<0.1	494	10.67
3485736	Drill Core	4.44	0.014	2.7	252.2	11.1	89	0.2	42.7	45.8	1468	9.49	5	0.2	0.1	477	0.2	0.6	<0.1	378	8.15
3485737	Drill Core	4.15	0.007	0.9	123.1	4.5	73	0.1	41.4	39.1	1425	9.06	4	<0.1	<0.1	592	<0.1	0.4	<0.1	403	8.59
3485738	Drill Core	5.35	0.038	1.2	162.7	3.3	89	0.1	36.2	47.0	1700	9.25	4	0.8	0.3	548	<0.1	0.3	<0.1	402	9.59
3485739	Drill Core	5.02	0.024	0.8	486.0	3.7	89	0.3	29.8	48.2	1599	9.91	4	0.3	0.4	735	0.1	0.3	<0.1	435	8.92
3485740	Rock Pulp	0.13	0.222	101.1	2808.1	19.9	77	0.4	68.1	15.5	564	4.44	18	4.6	17.2	318	0.1	2.0	0.6	127	2.66

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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485711	Drill Core	0.325	10.2	20	2.60	687	0.577	9.18	2.670	1.40	0.5	14.1	19	0.6	14.8	2.5	0.1	<1	23	21.4	<0.1
3485712	Drill Core	0.424	11.5	8	2.49	688	0.508	9.73	2.626	1.39	0.6	12.4	22	0.6	14.4	3.6	0.2	<1	15	21.9	<0.1
3485713	Drill Core	0.370	8.7	5	1.90	845	0.377	10.12	3.272	1.49	0.5	10.4	17	0.5	11.5	3.0	0.2	<1	10	24.6	<0.1
3485714	Drill Core	0.333	9.6	7	2.11	743	0.402	10.53	2.689	1.68	0.5	10.8	18	0.4	11.7	3.0	0.2	<1	12	24.9	<0.1
3485715	Core DUP	0.326	9.4	8	2.13	730	0.400	10.39	2.695	1.64	0.5	10.8	17	0.4	11.6	3.0	0.2	<1	12	24.6	<0.1
3485716	Drill Core	0.403	11.1	9	2.70	693	0.486	9.26	2.340	1.51	1.0	11.7	21	0.7	14.0	2.9	0.2	<1	16	24.9	0.3
3485717	Drill Core	0.417	11.3	9	3.00	543	0.551	9.18	2.586	1.81	0.7	12.5	22	0.7	14.5	3.1	0.2	1	17	27.7	<0.1
3485718	Drill Core	0.187	14.6	27	1.95	1560	0.554	9.09	3.320	4.90	0.8	50.0	30	1.2	18.0	13.2	0.9	2	14	15.1	0.2
3485719	Drill Core	0.162	14.6	29	1.76	1740	0.534	8.78	3.398	5.22	0.9	54.3	30	1.2	17.8	13.7	0.9	2	14	13.3	0.3
3485720	Rock Pulp	0.101	36.5	85	1.55	1042	0.497	8.06	2.307	3.66	4.9	72.3	72	3.1	24.1	17.0	1.4	3	13	33.8	0.3
3485721	Drill Core	0.167	8.9	55	3.28	1418	0.470	8.20	2.678	2.68	0.5	22.5	16	0.6	13.4	3.3	0.2	<1	26	21.5	0.3
3485722	Drill Core	0.165	8.5	58	3.49	1020	0.472	7.81	2.055	1.72	0.4	19.5	16	0.6	13.9	3.1	0.2	<1	28	13.1	0.4
3485723	Drill Core	0.164	8.8	54	3.19	1455	0.462	8.26	2.237	2.62	0.6	19.5	16	0.7	14.0	3.0	0.2	<1	27	18.3	0.4
3485724	Drill Core	0.161	9.0	59	3.40	1527	0.460	8.16	2.657	2.95	0.5	22.7	17	0.6	13.7	3.5	0.2	<1	27	21.4	0.5
3485725	Drill Core	0.157	8.8	52	3.20	1184	0.442	8.31	1.830	2.48	0.6	19.5	16	0.6	13.7	3.5	0.2	<1	26	13.7	0.5
3485726	Drill Core	0.154	8.5	61	3.42	1140	0.457	8.25	2.257	1.87	0.5	21.2	16	0.6	13.6	3.5	0.2	<1	28	19.2	0.7
3485727	Drill Core	0.159	7.7	62	3.56	682	0.468	8.01	1.707	1.08	0.5	18.4	15	0.7	13.7	3.1	0.2	<1	29	13.6	0.6
3485728	Drill Core	0.273	7.2	85	4.71	611	0.641	7.29	1.743	1.41	0.5	17.7	15	0.5	13.9	1.7	<0.1	<1	39	26.1	0.3
3485729	Drill Core	0.255	6.7	87	4.51	572	0.637	7.55	1.847	1.37	0.3	16.4	13	0.4	13.1	1.2	<0.1	<1	38	24.1	0.1
3485730	Rock	0.007	1.0	<1	2.73	10	0.005	0.06	0.031	<0.01	<0.1	1.2	<1	<0.1	1.8	<0.1	<0.1	<1	<1	0.8	<0.1
3485731	Drill Core	0.167	5.5	126	5.20	580	0.771	5.44	0.926	1.14	0.4	21.3	12	0.6	14.7	1.3	<0.1	<1	50	20.2	0.3
3485732	Drill Core	0.223	7.1	77	4.39	746	0.657	6.78	1.642	1.45	0.3	20.1	14	0.6	14.6	1.9	0.1	<1	39	20.8	0.1
3485733	Drill Core	0.063	4.2	144	5.55	474	0.731	5.05	0.853	1.42	0.4	26.4	9	0.7	14.0	1.9	0.1	<1	53	19.3	0.2
3485734	Drill Core	0.176	12.6	3	1.43	1721	0.400	9.47	3.332	5.35	0.7	64.6	25	0.9	16.5	10.3	0.6	2	9	14.4	0.4
3485735	Drill Core	0.054	3.4	233	6.69	144	0.711	2.97	0.637	0.62	0.3	26.0	9	0.8	15.0	1.5	<0.1	<1	66	15.5	0.1
3485736	Drill Core	0.138	4.7	148	4.34	503	0.539	6.28	1.859	1.16	0.6	11.8	10	0.5	11.5	1.4	<0.1	<1	39	19.5	0.5
3485737	Drill Core	0.144	5.1	81	4.28	733	0.542	7.64	1.882	1.40	0.3	12.7	10	0.5	11.6	1.0	<0.1	<1	35	17.5	0.1
3485738	Drill Core	0.124	3.6	99	5.13	399	0.461	7.10	1.305	1.12	0.4	14.8	8	0.5	9.9	1.6	<0.1	2	37	22.2	0.4
3485739	Drill Core	0.234	6.3	64	4.20	833	0.526	8.04	1.290	1.70	0.3	14.3	12	0.5	11.8	1.8	<0.1	1	31	24.1	0.2
3485740	Rock Pulp	0.095	34.5	87	1.53	1019	0.498	7.89	2.327	3.69	5.2	70.0	69	2.9	23.6	16.5	1.4	3	12	33.4	0.3

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Bureau Veritas Commodities Canada Ltd.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485711	Drill Core	43.0	0.7	<0.05	<0.005	1	<0.5	<0.5
3485712	Drill Core	36.6	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485713	Drill Core	24.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485714	Drill Core	45.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485715	Core DUP	42.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485716	Drill Core	44.1	0.5	<0.05	<0.005	1	<0.5	<0.5
3485717	Drill Core	70.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485718	Drill Core	50.9	1.7	<0.05	<0.005	1	<0.5	<0.5
3485719	Drill Core	46.6	1.8	<0.05	<0.005	1	<0.5	<0.5
3485720	Rock Pulp	205.0	2.5	0.07	<0.005	2	<0.5	1.0
3485721	Drill Core	53.6	1.0	<0.05	<0.005	1	<0.5	<0.5
3485722	Drill Core	27.5	0.9	<0.05	<0.005	1	<0.5	<0.5
3485723	Drill Core	45.8	0.9	0.05	<0.005	1	<0.5	<0.5
3485724	Drill Core	51.5	1.0	<0.05	<0.005	2	<0.5	<0.5
3485725	Drill Core	30.8	0.9	<0.05	0.006	1	<0.5	<0.5
3485726	Drill Core	43.4	0.9	<0.05	0.011	2	<0.5	<0.5
3485727	Drill Core	20.6	0.9	0.06	0.008	2	<0.5	<0.5
3485728	Drill Core	46.1	0.8	<0.05	<0.005	1	<0.5	<0.5
3485729	Drill Core	44.9	0.8	<0.05	<0.005	1	<0.5	<0.5
3485730	Rock	0.2	<0.1	<0.05	<0.005	2	<0.5	<0.5
3485731	Drill Core	34.7	1.0	0.06	<0.005	1	<0.5	<0.5
3485732	Drill Core	46.3	1.0	0.05	<0.005	<1	<0.5	<0.5
3485733	Drill Core	45.1	1.2	0.06	<0.005	1	<0.5	<0.5
3485734	Drill Core	68.2	1.8	<0.05	<0.005	2	<0.5	<0.5
3485735	Drill Core	21.5	1.3	0.07	<0.005	1	<0.5	<0.5
3485736	Drill Core	40.1	0.6	<0.05	<0.005	2	<0.5	<0.5
3485737	Drill Core	49.2	0.7	<0.05	<0.005	1	<0.5	<0.5
3485738	Drill Core	38.8	0.7	<0.05	<0.005	1	<0.5	<0.5
3485739	Drill Core	56.3	0.6	<0.05	<0.005	2	<0.5	<0.5
3485740	Rock Pulp	200.4	2.4	0.06	<0.005	2	<0.5	1.0

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485741	Drill Core	4.57	0.014	0.8	366.2	4.8	69	0.2	12.0	36.4	1295	8.08	4	0.2	0.4	1216	0.1	0.5	<0.1	330	7.91
3485742	Drill Core	4.94	0.021	0.8	485.5	6.7	81	0.3	18.4	38.3	1205	8.22	4	0.2	0.2	1354	0.2	0.6	<0.1	334	7.74
3485743	Drill Core	4.41	0.009	1.2	257.9	5.2	79	0.2	20.1	39.6	1244	8.46	5	0.2	0.4	1273	<0.1	0.8	<0.1	334	7.59
3485744	Drill Core	4.83	0.017	0.7	264.9	2.9	84	0.1	39.6	50.9	1779	9.42	3	0.1	0.2	695	0.1	0.5	<0.1	403	9.75
3485745	Drill Core	2.26	0.020	0.6	292.9	2.8	88	0.2	42.2	53.0	1891	9.87	4	0.1	0.2	728	0.1	0.6	<0.1	465	10.12

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485741	Drill Core	0.379	11.3	14	2.91	1284	0.539	9.51	2.634	1.50	0.5	10.2	23	0.5	15.1	2.1	0.1	<1	18	21.9	0.3
3485742	Drill Core	0.289	8.2	20	2.98	1324	0.596	9.77	2.352	1.51	0.4	8.8	15	0.5	12.0	2.3	0.1	<1	20	23.9	0.2
3485743	Drill Core	0.283	8.0	22	2.94	696	0.576	9.34	2.438	1.13	0.6	11.1	15	0.5	12.5	2.1	0.1	<1	21	21.9	0.2
3485744	Drill Core	0.171	4.5	116	5.40	362	0.472	6.94	0.724	1.14	0.3	13.1	9	0.9	11.6	0.9	<0.1	<1	42	24.7	0.1
3485745	Drill Core	0.174	4.0	133	5.84	258	0.477	6.69	0.490	1.03	0.3	13.6	9	0.9	11.7	0.7	<0.1	<1	47	23.2	0.2

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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485741	Drill Core	43.5	0.5	<0.05	<0.005	2	<0.5	<0.5
3485742	Drill Core	43.2	0.4	<0.05	<0.005	1	<0.5	<0.5
3485743	Drill Core	31.5	0.6	<0.05	<0.005	1	<0.5	<0.5
3485744	Drill Core	41.5	0.6	<0.05	<0.005	1	<0.5	<0.5
3485745	Drill Core	35.4	0.7	<0.05	<0.005	1	<0.5	<0.5

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Client: **Thompson Creek Metals**
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Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3485506	Drill Core	3.73	0.017	3.0	90.6	3.4	71	0.1	22.6	32.9	1409	6.71	5	0.6	1.3	378	0.1	1.5	<0.1	262	6.34
REP 3485506	QC		0.015																		
3485519	Drill Core	4.51	0.017	10.6	359.9	7.0	64	0.4	26.6	37.8	1283	7.48	10	1.0	0.8	792	0.2	1.7	<0.1	285	6.39
REP 3485519	QC			11.0	351.4	6.6	65	0.4	26.3	36.9	1257	7.33	10	0.9	0.7	804	0.1	1.6	<0.1	278	6.24
3485521	Drill Core	4.89	0.013	2.4	249.8	6.1	53	0.2	18.0	28.1	1106	6.36	8	0.6	0.9	1036	0.1	2.2	<0.1	267	6.91
REP 3485521	QC		0.020																		
3485554	Drill Core	4.52	0.007	0.9	370.1	3.5	92	0.2	31.2	47.1	1536	9.06	6	0.2	0.4	671	<0.1	1.1	<0.1	532	8.54
REP 3485554	QC			0.9	369.3	3.7	94	0.2	31.8	46.9	1528	8.98	6	0.2	0.4	715	0.1	1.1	<0.1	528	8.47
3485581	Drill Core	5.67	<0.005	1.9	102.7	5.4	69	<0.1	9.4	18.2	1042	4.49	4	1.3	2.3	347	0.1	1.0	<0.1	147	3.66
REP 3485581	QC		0.006																		
3485589	Drill Core	5.36	0.007	5.7	215.4	5.9	68	0.2	10.8	26.8	1084	5.84	6	0.7	0.7	1047	0.1	1.6	<0.1	259	6.92
REP 3485589	QC			5.6	209.6	5.9	67	0.2	10.7	26.0	1058	5.70	6	0.7	0.7	1017	0.1	1.6	<0.1	259	6.70
3485595	Core DUP		0.015	1.4	221.6	8.0	52	0.2	10.6	43.9	1152	7.23	7	0.4	0.7	1513	0.1	1.9	<0.1	271	8.96
REP 3485595	QC		0.011																		
3485624	Drill Core	4.91	0.005	1.0	309.2	7.7	80	0.3	20.2	42.0	1598	8.29	8	0.4	0.8	1040	0.2	3.0	<0.1	403	9.09
REP 3485624	QC			1.0	312.6	7.4	80	0.3	20.2	42.1	1604	8.32	8	0.4	0.8	1050	0.2	3.0	<0.1	398	9.12
3485655	Drill Core	5.26	0.008	3.0	169.0	5.2	49	0.2	9.1	16.5	803	4.23	8	0.3	0.6	850	<0.1	1.6	<0.1	170	7.31
REP 3485655	QC		0.008																		
REP 3485659	QC			8.2	211.2	4.7	47	0.2	12.7	19.7	797	4.42	6	0.2	0.4	1259	0.1	1.6	<0.1	175	8.03
3485670	Rock	1.38	<0.005	<0.1	1.4	0.4	2	<0.1	<0.1	0.8	164	0.11	<1	0.1	<0.1	82	<0.1	<0.1	<0.1	1	32.84
REP 3485670	QC		<0.005																		
REP 3485693	QC			1.5	187.8	6.3	102	0.1	26.8	41.4	1452	8.77	8	0.5	1.1	746	0.1	1.1	<0.1	340	8.16
3485718	Drill Core	3.61	0.008	3.3	100.6	4.0	71	0.1	12.3	24.6	1077	5.43	4	1.4	2.6	492	<0.1	0.9	<0.1	177	3.93
REP 3485718	QC		0.007																		
REP 3485727	QC		0.012	1.8	174.7	7.1	76	0.1	31.7	40.2	1620	8.30	5	0.4	0.8	1226	0.1	1.3	<0.1	335	9.02
Core Reject Duplicates																					
3485523	Drill Core	3.45	0.008	41.1	258.2	65.7	129	0.6	27.8	35.6	1791	6.78	5	1.4	0.9	379	0.5	1.1	0.6	287	6.75
DUP 3485523	QC		0.009	41.6	261.8	66.7	128	0.6	28.0	36.1	1783	6.72	5	1.4	1.0	390	0.6	1.1	0.6	284	6.76

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Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3485506	Drill Core	0.135	7.8	61	3.06	1150	0.392	6.97	2.191	2.74	0.9	11.1	15	0.6	13.6	3.9	0.2	<1	28	20.6	0.2
REP 3485506	QC																				
3485519	Drill Core	0.162	6.8	49	3.33	853	0.495	8.74	2.241	2.20	0.8	10.1	14	0.4	11.9	2.8	0.1	<1	27	39.0	1.1
REP 3485519	QC	0.165	6.7	45	3.26	835	0.478	8.36	2.182	2.16	0.9	10.2	14	0.4	11.6	2.7	0.1	<1	27	36.2	1.1
3485521	Drill Core	0.126	6.4	25	2.61	911	0.381	8.85	2.239	2.18	0.7	10.3	13	0.5	11.7	3.1	0.2	2	23	27.1	0.4
REP 3485521	QC																				
3485554	Drill Core	0.053	3.6	30	4.35	381	0.617	7.85	0.914	1.55	0.3	14.3	8	0.4	10.5	1.8	<0.1	<1	38	23.8	0.3
REP 3485554	QC	0.049	3.7	30	4.34	415	0.614	7.80	0.928	1.49	0.3	14.7	8	0.5	11.1	1.8	0.1	<1	38	24.8	0.3
3485581	Drill Core	0.162	13.0	24	1.53	990	0.456	8.06	3.849	4.71	1.1	58.4	27	1.0	16.9	12.6	0.7	1	11	10.1	0.4
REP 3485581	QC																				
3485589	Drill Core	0.204	6.1	9	2.00	811	0.388	9.80	2.296	1.86	0.7	10.0	13	0.4	9.7	2.8	0.2	<1	14	25.8	0.1
REP 3485589	QC	0.201	6.1	9	1.94	795	0.382	9.83	2.229	1.83	0.7	9.8	13	0.4	9.5	2.8	0.2	<1	14	25.2	<0.1
3485595	Core DUP	0.135	5.9	10	1.41	297	0.439	10.76	2.490	0.53	0.7	8.8	12	0.4	9.5	2.4	0.1	<1	16	18.5	0.9
REP 3485595	QC																				
3485624	Drill Core	0.221	7.8	24	3.38	489	0.666	9.33	1.933	1.04	0.8	16.3	15	0.5	13.7	2.4	0.2	<1	28	22.8	0.1
REP 3485624	QC	0.220	7.9	25	3.39	493	0.674	9.35	1.921	1.04	0.8	16.0	15	0.5	13.7	2.4	0.2	<1	28	22.7	0.1
3485655	Drill Core	0.091	3.6	10	1.23	1017	0.287	10.06	2.134	3.66	0.6	7.5	7	0.4	5.5	2.3	0.1	<1	9	30.3	0.5
REP 3485655	QC																				
REP 3485659	QC	0.040	2.2	14	1.23	795	0.256	10.16	1.842	2.50	0.3	9.3	5	0.4	4.5	2.1	0.1	<1	11	27.1	0.1
3485670	Rock	0.006	1.0	1	2.65	14	0.005	0.07	0.033	0.01	<0.1	1.2	<1	<0.1	1.9	<0.1	<0.1	<1	<1	0.8	<0.1
REP 3485670	QC																				
REP 3485693	QC	0.369	9.8	45	3.60	710	0.595	8.17	1.396	2.36	0.6	16.7	19	0.6	14.6	2.9	0.2	<1	26	31.1	0.4
3485718	Drill Core	0.187	14.6	27	1.95	1560	0.554	9.09	3.320	4.90	0.8	50.0	30	1.2	18.0	13.2	0.9	2	14	15.1	0.2
REP 3485718	QC																				
REP 3485727	QC	0.162	7.8	64	3.63	695	0.475	8.17	1.717	1.10	0.5	19.1	15	0.7	13.9	3.2	0.2	<1	30	13.8	0.6
Core Reject Duplicates																					
3485523	Drill Core	0.145	7.8	60	3.35	447	0.377	6.71	1.968	4.33	0.6	13.5	17	0.6	14.8	4.2	0.2	3	30	45.7	1.7
DUP 3485523	QC	0.137	7.5	61	3.34	581	0.394	6.67	1.935	3.56	0.7	14.0	15	0.8	15.0	4.3	0.2	4	31	46.3	1.7

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3485506	Drill Core	54.6	0.5	<0.05	0.005	<1	1.3	<0.5
REP 3485506	QC							
3485519	Drill Core	54.8	0.4	<0.05	0.026	2	0.9	<0.5
REP 3485519	QC	53.3	0.5	<0.05	0.028	2	<0.5	<0.5
3485521	Drill Core	53.0	0.5	<0.05	0.011	<1	1.1	<0.5
REP 3485521	QC							
3485554	Drill Core	46.1	0.7	<0.05	<0.005	<1	1.4	<0.5
REP 3485554	QC	48.2	0.8	0.06	0.008	<1	1.3	<0.5
3485581	Drill Core	55.2	1.4	<0.05	<0.005	<1	<0.5	<0.5
REP 3485581	QC							
3485589	Drill Core	29.8	0.4	<0.05	0.007	<1	<0.5	<0.5
REP 3485589	QC	28.0	0.4	<0.05	0.007	<1	<0.5	<0.5
3485595	Core DUP	10.7	0.4	<0.05	0.017	3	<0.5	<0.5
REP 3485595	QC							
3485624	Drill Core	34.0	0.7	<0.05	<0.005	<1	<0.5	<0.5
REP 3485624	QC	33.7	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485655	Drill Core	51.3	0.3	<0.05	0.011	1	<0.5	<0.5
REP 3485655	QC							
REP 3485659	QC	16.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485670	Rock	0.3	<0.1	<0.05	<0.005	2	<0.5	<0.5
REP 3485670	QC							
REP 3485693	QC	70.2	0.7	0.06	<0.005	1	<0.5	<0.5
3485718	Drill Core	50.9	1.7	<0.05	<0.005	1	<0.5	<0.5
REP 3485718	QC							
REP 3485727	QC	21.1	0.9	0.06	0.008	2	<0.5	<0.5
Core Reject Duplicates								
3485523	Drill Core	128.8	0.5	0.08	0.095	3	1.4	0.8
DUP 3485523	QC	109.4	0.6	0.09	0.121	2	1.9	0.8

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485557	Drill Core	4.44	0.006	8.4	134.5	6.7	77	0.1	10.9	21.2	1136	5.12	4	1.4	2.4	462	<0.1	0.9	<0.1	185	3.74
DUP 3485557	QC		0.007	8.2	139.8	6.6	77	<0.1	11.8	22.4	1133	5.08	4	1.3	2.4	460	<0.1	0.8	<0.1	185	3.73
3485591	Drill Core	4.64	0.006	3.9	189.1	6.0	62	0.2	10.1	25.1	1086	6.06	6	0.4	0.6	1213	0.1	1.8	<0.1	283	7.45
DUP 3485591	QC		0.007	3.9	188.2	5.8	62	0.2	10.2	25.7	1088	6.07	6	0.5	0.6	1232	0.1	1.8	<0.1	286	7.46
3485625	Drill Core	4.87	0.010	1.9	212.2	6.0	86	0.2	24.7	43.2	1710	9.03	6	0.4	0.6	869	0.1	2.2	<0.1	388	8.85
DUP 3485625	QC		0.007	2.2	223.1	6.1	89	0.2	25.4	44.1	1778	9.34	7	0.4	0.6	888	0.1	2.3	<0.1	409	9.09
3485659	Drill Core	3.82	0.007	8.4	210.2	4.7	46	0.2	12.4	20.2	784	4.35	6	0.2	0.4	1243	0.1	1.6	<0.1	175	7.93
DUP 3485659	QC		0.005	9.5	216.8	4.8	49	0.2	13.0	20.6	823	4.56	6	0.2	0.4	1294	0.1	1.6	<0.1	181	8.25
3485693	Drill Core	4.88	0.013	1.5	188.7	6.5	99	0.2	25.9	40.5	1413	8.47	8	0.5	1.1	760	0.1	1.1	<0.1	327	8.08
DUP 3485693	QC		0.010	1.5	187.6	6.4	103	0.2	27.2	42.4	1473	8.89	9	0.5	1.1	762	0.1	1.2	<0.1	341	8.23
3485727	Drill Core	5.27	0.009	1.9	173.2	7.0	76	0.1	31.3	40.1	1592	8.21	5	0.4	0.8	1198	0.1	1.3	<0.1	336	8.93
DUP 3485727	QC		0.010	1.7	176.0	6.8	78	0.1	31.9	39.9	1599	8.20	5	0.4	0.8	1146	0.1	1.2	<0.1	331	8.70
Reference Materials																					
STD OREAS25A-4A	Standard			2.4	33.4	26.9	44	<0.1	45.7	7.8	504	6.67	10	2.9	16.5	48	<0.1	0.6	0.4	162	0.29
STD OREAS25A-4A	Standard			2.5	33.0	25.0	43	<0.1	46.0	7.5	502	6.60	10	2.7	16.0	45	<0.1	0.6	0.4	156	0.29
STD OREAS25A-4A	Standard			2.3	31.3	21.3	43	0.1	45.1	7.6	494	6.56	8	2.5	13.4	46	<0.1	0.5	0.3	161	0.29
STD OREAS25A-4A	Standard			2.5	32.6	24.8	48	<0.1	48.7	8.2	481	6.76	9	2.7	15.5	49	<0.1	0.6	0.4	149	0.31
STD OREAS25A-4A	Standard			2.4	31.5	22.0	42	<0.1	45.0	7.6	510	6.59	9	2.4	13.6	45	<0.1	0.5	0.2	166	0.30
STD OREAS25A-4A	Standard			2.6	33.0	23.5	46	0.1	50.8	8.0	494	6.51	10	2.7	14.8	46	<0.1	0.6	0.3	159	0.29
STD OREAS25A-4A	Standard			2.5	31.2	22.2	44	0.1	50.3	7.7	489	6.50	9	2.6	14.3	46	<0.1	0.5	0.3	158	0.29
STD OREAS25A-4A	Standard			2.6	32.9	24.2	48	0.1	47.9	8.3	508	6.82	10	2.8	15.0	47	<0.1	0.6	0.3	169	0.29
STD OREAS45H	Standard			1.6	794.5	13.5	43	<0.1	451.8	97.0	402	21.46	18	1.7	7.8	30	<0.1	0.7	0.2	273	0.14
STD OREAS45E	Standard			2.3	768.2	18.7	47	0.3	465.6	58.7	562	25.46	17	2.5	13.6	16	<0.1	1.0	0.3	314	0.06
STD OREAS45E	Standard			2.3	785.6	15.9	42	0.3	474.2	58.9	581	24.92	14	2.2	11.2	15	<0.1	0.9	0.3	327	0.06
STD OREAS45E	Standard			2.4	764.2	17.5	45	0.3	465.6	59.7	538	25.10	15	2.3	12.3	16	<0.1	0.9	0.3	313	0.07
STD OREAS45H	Standard			1.5	798.2	12.5	41	<0.1	447.4	97.3	404	19.98	17	1.7	7.5	29	<0.1	0.5	<0.1	274	0.14
STD OREAS45H	Standard			1.6	804.7	11.9	41	0.2	465.5	92.9	412	20.68	17	1.6	7.2	28	<0.1	0.6	0.2	281	0.14
STD OREAS45E	Standard			2.4	793.3	16.0	43	0.3	481.2	57.9	540	24.60	16	2.2	11.3	14	<0.1	0.9	0.2	329	0.06
STD OREAS45H	Standard			1.6	811.7	12.0	41	0.2	469.6	95.1	417	20.72	16	1.6	7.1	29	<0.1	0.6	0.2	285	0.14

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
3485557	Drill Core	0.139	13.3	24	1.89	1248	0.497	7.83	3.431	4.86	0.8	66.7	27	1.1	17.1	12.3	0.8	2	15	18.2	0.7
DUP 3485557	QC	0.141	13.5	24	1.95	1238	0.486	8.03	3.407	4.77	0.8	68.2	27	1.3	17.0	12.2	0.8	2	14	17.6	0.7
3485591	Drill Core	0.193	5.7	8	1.72	688	0.447	10.22	2.363	1.66	0.6	8.9	12	0.5	9.0	2.5	0.1	<1	14	25.1	0.1
DUP 3485591	QC	0.195	5.8	8	1.71	675	0.445	9.99	2.329	1.65	0.7	8.9	12	0.4	9.0	2.5	0.1	<1	14	25.0	0.1
3485625	Drill Core	0.156	6.5	32	3.84	491	0.615	8.71	1.778	1.10	0.8	16.0	13	0.6	13.0	2.3	0.2	<1	33	23.4	0.3
DUP 3485625	QC	0.163	6.7	34	4.02	491	0.640	8.84	1.787	1.11	0.8	16.8	13	0.6	13.4	2.4	0.2	<1	34	24.4	0.3
3485659	Drill Core	0.040	2.2	14	1.23	783	0.253	10.05	1.831	2.46	0.3	9.2	4	0.4	4.4	2.1	0.1	<1	11	26.5	0.1
DUP 3485659	QC	0.040	2.4	15	1.32	802	0.267	10.54	1.865	2.52	0.3	9.7	5	0.4	4.8	2.2	0.1	<1	12	27.2	0.2
3485693	Drill Core	0.349	9.5	43	3.50	717	0.564	8.22	1.445	2.43	0.6	16.6	18	0.6	14.3	2.7	0.2	<1	25	31.0	0.4
DUP 3485693	QC	0.372	9.9	46	3.66	714	0.604	8.34	1.409	2.40	0.6	17.3	19	0.7	14.8	2.9	0.2	<1	26	31.4	0.4
3485727	Drill Core	0.159	7.7	62	3.56	682	0.468	8.01	1.707	1.08	0.5	18.4	15	0.7	13.7	3.1	0.2	<1	29	13.6	0.6
DUP 3485727	QC	0.155	7.7	63	3.64	706	0.465	8.01	1.740	1.09	0.5	18.4	15	0.7	13.6	3.1	0.2	<1	29	14.3	0.6
Reference Materials																					
STD OREAS25A-4A	Standard	0.050	23.5	120	0.34	156	0.925	9.14	0.139	0.50	2.0	148.4	50	3.8	10.1	19.5	1.5	<1	13	42.7	<0.1
STD OREAS25A-4A	Standard	0.048	22.6	107	0.35	145	0.912	9.19	0.130	0.48	1.9	143.5	48	3.9	10.3	19.5	1.4	<1	13	35.4	<0.1
STD OREAS25A-4A	Standard	0.047	21.9	121	0.33	130	0.894	9.05	0.136	0.49	1.9	152.2	48	3.4	9.1	18.1	1.4	<1	13	37.3	<0.1
STD OREAS25A-4A	Standard	0.048	23.3	126	0.34	157	0.931	8.92	0.141	0.50	1.9	158.1	51	4.0	10.6	19.6	1.5	<1	14	38.4	<0.1
STD OREAS25A-4A	Standard	0.046	20.8	114	0.33	143	0.931	8.93	0.126	0.49	1.6	142.8	45	3.8	9.0	18.0	1.3	<1	11	31.1	<0.1
STD OREAS25A-4A	Standard	0.048	22.5	117	0.33	137	0.904	9.12	0.133	0.48	1.9	150.9	49	3.6	9.4	18.2	1.4	<1	13	35.7	<0.1
STD OREAS25A-4A	Standard	0.046	21.8	120	0.33	129	0.899	9.22	0.132	0.48	1.9	150.4	48	3.5	9.0	17.7	1.4	<1	12	35.6	<0.1
STD OREAS25A-4A	Standard	0.049	22.3	128	0.34	141	0.958	9.42	0.139	0.51	2.0	160.4	49	3.7	9.7	20.3	1.5	<1	13	38.5	<0.1
STD OREAS45H	Standard	0.023	13.4	664	0.25	373	0.913	8.20	0.096	0.22	0.9	128.4	26	2.1	10.4	14.7	1.0	1	61	15.3	<0.1
STD OREAS45E	Standard	0.031	11.5	991	0.15	256	0.487	6.79	0.051	0.30	1.0	90.2	25	1.2	8.1	6.2	0.5	<1	91	6.1	<0.1
STD OREAS45E	Standard	0.032	10.3	1066	0.16	249	0.532	7.10	0.061	0.34	1.0	95.8	24	1.1	7.1	5.8	0.6	<1	90	6.6	<0.1
STD OREAS45E	Standard	0.034	11.0	1016	0.17	247	0.525	6.68	0.067	0.35	1.0	92.6	24	1.2	7.4	5.9	0.5	<1	93	7.1	<0.1
STD OREAS45H	Standard	0.022	12.8	696	0.28	349	0.875	8.14	0.101	0.23	0.9	123.9	25	1.9	9.3	13.7	1.0	<1	59	14.3	<0.1
STD OREAS45H	Standard	0.023	13.1	708	0.26	344	0.886	8.56	0.099	0.22	0.9	127.3	25	1.9	9.0	13.2	1.0	1	59	13.8	<0.1
STD OREAS45E	Standard	0.031	10.1	1092	0.16	241	0.530	7.05	0.060	0.33	1.0	94.8	20	1.1	6.8	5.6	0.5	<1	90	6.6	<0.1
STD OREAS45H	Standard	0.023	13.1	718	0.27	352	0.886	8.53	0.101	0.22	0.9	130.5	26	1.9	9.3	13.8	1.0	1	60	14.4	<0.1

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QUALITY CONTROL REPORT VAN20001119.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
3485557	Drill Core	64.8	1.8	<0.05	0.016	<1	<0.5	<0.5
DUP 3485557	QC	67.0	1.8	<0.05	0.010	<1	<0.5	<0.5
3485591	Drill Core	30.5	0.4	<0.05	0.007	<1	<0.5	<0.5
DUP 3485591	QC	29.4	0.4	<0.05	0.007	<1	<0.5	<0.5
3485625	Drill Core	39.8	0.8	<0.05	0.005	2	<0.5	<0.5
DUP 3485625	QC	40.7	0.8	<0.05	0.005	1	<0.5	<0.5
3485659	Drill Core	16.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
DUP 3485659	QC	18.1	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485693	Drill Core	71.7	0.7	0.06	<0.005	1	<0.5	<0.5
DUP 3485693	QC	70.7	0.7	0.06	<0.005	2	<0.5	<0.5
3485727	Drill Core	20.6	0.9	0.06	0.008	2	<0.5	<0.5
DUP 3485727	QC	21.6	0.9	0.05	0.007	2	<0.5	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	63.2	4.3	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	59.0	4.0	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	60.9	4.2	0.08	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	64.6	4.2	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	55.5	3.7	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.0	4.2	0.08	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	60.9	4.2	0.08	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	62.6	4.4	0.10	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	25.1	3.6	0.13	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.6	3.0	0.10	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.1	3.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.7	2.8	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	22.2	3.5	0.09	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	22.2	3.5	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	19.5	2.9	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	23.0	3.7	0.10	<0.005	2	<0.5	<0.5

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXB130	Standard		0.118																		
STD OXB130	Standard		0.121																		
STD OXB130	Standard		0.122																		
STD OXB130	Standard		0.119																		
STD OXG141	Standard		0.968																		
STD OXG141	Standard		0.964																		
STD OXG141	Standard		0.956																		
STD OXG141	Standard		0.954																		
STD OXN155	Standard		7.732																		
STD OXN155	Standard		7.996																		
STD OXN155	Standard		7.821																		
STD OXN155	Standard		7.887																		
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		0.005	0.8	1.9	2.4	29	<0.1	0.5	3.4	569	1.98	2	1.3	3.0	193	<0.1	<0.1	<0.1	30	1.37
ROCK-VAN	Prep Blank		<0.005	1.0	3.8	2.3	33	<0.1	1.3	3.7	626	2.02	3	1.2	2.9	184	<0.1	0.1	<0.1	33	1.35

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Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.036	13.2	4	0.43	751	0.178	6.80	3.426	1.43	0.2	46.5	24	0.7	15.4	5.3	0.4	1	6	2.5	<0.1
ROCK-VAN	Prep Blank	0.036	12.2	6	0.48	744	0.179	6.69	3.354	1.53	0.2	48.1	24	0.7	15.2	5.5	0.4	<1	6	2.7	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001119.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	31.1	1.6	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	31.4	1.6	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 22, 2020
Analysis Start:	July 22, 2020
Report Date:	July 24, 2020
Page:	1 of 2

CERTIFICATE OF ANALYSIS VAN20001119R.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_02
P.O. Number	M22165
Number of Samples:	11

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
MA200	11	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	11	Environmental disposal fee - Multi-acid neutralization			VAN
EX001	11	Special handling charge			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001119R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
3485615	Drill Core	3.3	132.3	5.4	82	<0.1	10.2	19.0	1083	4.78	4	1.0	2.0	419	<0.1	1.0	<0.1	151	3.83	0.147	9.9
3485616	Drill Core	3.1	141.3	5.1	90	<0.1	10.8	18.4	1110	4.87	4	1.1	2.2	378	<0.1	0.7	<0.1	158	3.52	0.157	11.4
3485617	Drill Core	4.6	107.8	5.2	83	<0.1	11.0	19.6	1055	4.93	4	1.1	2.0	376	0.2	1.1	<0.1	152	3.56	0.146	10.2
3485618	Drill Core	8.1	101.5	3.7	71	<0.1	10.5	16.2	988	4.81	5	1.0	1.9	330	<0.1	1.0	<0.1	152	3.28	0.149	8.8
3485619	Drill Core	1.2	93.2	6.5	82	0.1	17.8	36.3	1565	7.73	10	0.4	0.9	882	0.1	2.8	<0.1	418	9.04	0.217	7.0
3485620	Rock Pulp	91.2	2682.2	20.5	76	0.4	59.3	15.0	537	4.19	19	4.5	13.6	283	0.3	2.1	0.7	121	2.45	0.097	21.7
3485621	Drill Core	0.8	124.8	4.5	85	0.1	20.5	38.1	1649	8.15	8	0.3	0.8	1204	<0.1	3.4	<0.1	416	9.04	0.217	6.7
3485622	Drill Core	1.4	170.0	7.3	91	0.1	21.5	44.4	1627	8.28	10	0.4	0.9	927	0.1	4.1	<0.1	431	9.03	0.240	7.4
3485623	Drill Core	0.9	247.6	4.9	102	0.2	20.9	43.4	1859	9.36	11	0.3	0.8	784	0.2	2.9	<0.1	491	8.61	0.284	8.1
3485624	Drill Core	1.1	302.7	7.2	78	0.2	19.8	39.3	1561	7.80	9	0.3	0.7	925	0.1	3.0	<0.1	369	8.57	0.220	6.4
3485625	Drill Core	1.7	212.9	6.1	86	0.3	25.1	41.9	1674	8.58	8	0.4	0.6	830	0.2	2.4	<0.1	364	8.58	0.155	5.7

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001119R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
3485615	Drill Core	25	1.61	1248	0.494	7.67	2.695	3.23	1.2	53.3	24	1.2	17.0	14.1	0.8	2	11	15.2	0.2	43.7	1.6
3485616	Drill Core	26	1.81	1466	0.502	7.93	2.734	3.49	1.0	57.6	27	1.3	18.2	14.0	0.9	2	12	14.6	0.2	56.0	1.5
3485617	Drill Core	27	1.80	1215	0.500	7.67	2.898	4.41	1.0	51.8	25	1.1	17.3	13.7	0.8	2	12	19.9	0.3	74.6	1.4
3485618	Drill Core	26	1.68	1112	0.500	7.59	3.418	2.83	0.8	48.6	22	1.1	16.2	14.0	0.8	2	11	15.1	0.2	33.6	1.6
3485619	Drill Core	25	3.16	375	0.624	8.15	1.851	0.85	1.0	19.4	16	0.5	14.9	3.0	0.2	<1	28	17.9	<0.1	21.8	0.8
3485620	Rock Pulp	84	1.42	957	0.497	6.57	2.032	2.23	5.6	70.2	49	3.0	20.6	17.2	1.2	3	10	31.7	0.3	92.2	2.3
3485621	Drill Core	33	3.72	343	0.671	8.11	1.827	0.65	0.7	18.9	15	0.4	15.5	2.3	0.1	<1	31	25.2	<0.1	20.8	0.8
3485622	Drill Core	28	3.45	416	0.705	8.78	1.868	0.86	1.0	16.5	17	0.4	16.4	2.3	0.1	<1	31	23.5	0.2	28.5	0.7
3485623	Drill Core	26	3.82	428	0.810	7.86	1.525	0.91	1.4	17.9	19	0.5	16.8	2.4	0.1	<1	30	25.3	<0.1	32.3	0.9
3485624	Drill Core	23	3.20	450	0.624	8.50	1.771	0.93	0.6	15.9	14	0.4	13.2	2.3	0.1	<1	24	20.8	<0.1	19.1	0.6
3485625	Drill Core	29	3.80	475	0.593	8.14	1.656	1.00	0.8	16.0	13	0.5	12.9	2.3	0.1	<1	30	22.7	0.3	27.8	0.7

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001119R.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
3485615	Drill Core	<0.05	<0.005	1	<0.5	<0.5
3485616	Drill Core	<0.05	<0.005	<1	<0.5	<0.5
3485617	Drill Core	<0.05	0.006	<1	<0.5	<0.5
3485618	Drill Core	<0.05	<0.005	1	<0.5	<0.5
3485619	Drill Core	<0.05	<0.005	<1	1.0	<0.5
3485620	Rock Pulp	0.07	<0.005	2	0.5	1.0
3485621	Drill Core	<0.05	<0.005	<1	1.4	<0.5
3485622	Drill Core	<0.05	0.009	<1	1.3	<0.5
3485623	Drill Core	<0.05	<0.005	<1	0.6	<0.5
3485624	Drill Core	<0.05	<0.005	<1	0.7	<0.5
3485625	Drill Core	<0.05	0.008	<1	1.4	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001119R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
Reference Materials																					
STD OREAS25A-4A	Standard	2.4	35.8	24.7	45	<0.1	47.0	7.7	499	6.70	10	2.7	14.8	44	<0.1	0.6	0.3	165	0.27	0.050	19.1
STD OREAS45E	Standard	2.2	775.5	17.9	46	0.3	468.7	59.0	555	24.91	16	2.4	12.9	17	<0.1	1.0	0.2	326	0.08	0.034	10.9
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	21.8
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1

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QUALITY CONTROL REPORT VAN20001119R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
Reference Materials																					
STD OREAS25A-4A	Standard	112	0.38	146	0.924	9.00	0.152	0.48	1.8	155.4	47	3.5	9.7	19.6	1.4	<1	12	36.3	<0.1	54.8	4.3
STD OREAS45E	Standard	980	0.18	250	0.530	6.82	0.070	0.33	1.1	92.6	24	1.2	7.9	6.2	0.5	<1	91	6.6	<0.1	20.2	3.0
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1	0.1	<0.1

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Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001119R.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.12	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A Expected		0.09		2.4		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.15
BLK	Blank	<0.05	0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 19, 2020
Analysis Start:	July 07, 2020
Report Date:	July 17, 2020
Page:	1 of 6

CERTIFICATE OF ANALYSIS VAN20001156.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_04
P.O. Number	M22165
Number of Samples:	141

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	130	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	4	Split samples by riffle splitter			VAN
PUL85	4	Pulverize to 85% passing 200 mesh			VAN
SLBHP	7	Sort, label and box pulps			VAN
FA430	141	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	141	Environmental disposal charge-Fire assay lead waste			VAN
MA200	141	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	141	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485746	Drill Core	4.25	0.017	4.8	102.0	6.0	55	0.1	18.3	24.9	885	8.33	4	1.1	1.8	416	<0.1	1.2	<0.1	278	2.43
3485747	Drill Core	4.18	0.018	4.6	94.8	8.4	51	0.1	22.7	28.1	767	8.18	13	1.0	1.5	353	<0.1	1.3	<0.1	281	1.80
3485748	Drill Core	1.34	0.010	2.8	19.9	2.4	12	<0.1	1.0	5.4	153	2.23	2	1.2	2.8	238	<0.1	0.4	<0.1	15	0.31
3485749	Drill Core	2.68	0.008	1.8	44.1	3.4	38	<0.1	9.0	10.5	609	4.62	2	1.0	2.5	373	<0.1	0.8	<0.1	181	1.04
3485750	Rock	1.73	<0.005	<0.1	0.7	0.4	3	<0.1	<0.1	0.5	154	0.13	<1	0.1	<0.1	74	<0.1	<0.1	<0.1	1	32.05
3485751	Drill Core	2.74	<0.005	0.3	27.5	9.4	61	<0.1	6.1	18.2	1081	4.11	5	0.9	2.0	2053	<0.1	2.2	<0.1	184	3.03
3485752	Drill Core	3.62	<0.005	0.2	17.1	10.6	65	<0.1	4.9	13.4	991	3.85	4	0.8	2.1	1890	<0.1	1.5	<0.1	167	2.95
3485753	Drill Core	3.77	<0.005	0.2	25.8	13.6	62	<0.1	6.1	14.7	857	3.87	3	0.7	1.7	1265	<0.1	1.0	<0.1	165	2.70
3485754	Drill Core	2.66	<0.005	0.2	22.6	11.2	75	<0.1	15.9	12.7	1044	4.28	3	0.7	1.7	963	<0.1	1.0	<0.1	170	3.01
3485755	Core DUP		<0.005	0.2	23.4	11.7	77	<0.1	16.5	12.9	1067	4.39	3	0.8	1.9	1008	<0.1	1.0	<0.1	174	3.12
3485756	Drill Core	2.31	0.005	0.8	13.9	3.4	19	<0.1	0.7	3.9	279	1.84	1	1.5	3.3	265	<0.1	0.4	<0.1	15	0.42
3485757	Drill Core	2.86	<0.005	0.5	26.0	3.5	17	<0.1	0.4	2.0	302	1.69	<1	1.5	3.4	237	<0.1	0.4	<0.1	14	0.42
3485758	Drill Core	3.23	0.009	1.3	23.0	5.0	16	<0.1	0.4	2.0	345	1.54	3	1.5	3.2	290	<0.1	0.6	<0.1	11	0.60
3485759	Drill Core	3.39	0.006	2.4	5.7	4.2	14	<0.1	0.3	2.0	264	1.59	3	1.5	3.4	268	<0.1	0.6	<0.1	11	0.49
3485760	Rock Pulp	0.13	0.217	99.9	2749.7	20.6	81	0.4	62.5	16.0	563	4.41	17	4.2	16.8	301	<0.1	2.0	0.6	127	2.59
3485761	Drill Core	3.06	0.015	2.4	9.8	7.0	16	<0.1	0.7	4.9	281	1.76	5	1.6	3.6	341	<0.1	0.6	<0.1	12	0.44
3485762	Drill Core	2.20	0.006	0.7	31.1	4.3	18	<0.1	0.4	2.6	350	1.66	3	1.5	3.5	349	<0.1	0.6	<0.1	12	0.54
3485763	Drill Core	2.09	0.007	0.8	32.4	3.7	24	<0.1	1.8	7.1	368	2.34	4	1.3	3.2	269	<0.1	0.6	<0.1	36	0.40
3485764	Drill Core	2.71	0.017	1.4	106.3	3.7	83	0.2	11.2	28.6	1173	7.24	5	0.7	1.4	298	<0.1	1.5	<0.1	327	1.93
3485765	Drill Core	3.83	0.013	1.6	114.8	3.4	70	0.1	10.3	26.8	1481	7.11	4	0.6	1.3	540	<0.1	3.7	<0.1	312	4.70
3485766	Drill Core	4.65	0.009	1.8	200.1	4.2	67	0.2	10.4	34.0	1384	7.42	5	0.6	1.2	608	<0.1	3.2	<0.1	288	5.02
3485767	Drill Core	4.62	0.011	1.7	112.6	4.1	64	0.1	9.1	26.2	1329	6.84	6	0.6	1.1	546	<0.1	2.5	<0.1	272	4.47
3485768	Drill Core	4.20	0.011	1.7	104.5	3.9	57	0.1	9.1	30.0	1382	6.60	6	0.6	1.2	549	0.1	1.9	<0.1	262	6.00
3485769	Drill Core	4.38	0.015	1.7	192.0	4.3	66	0.2	10.1	33.7	1389	6.99	8	0.6	1.3	725	<0.1	2.3	<0.1	267	5.28
3485770	Rock	1.80	<0.005	<0.1	0.7	0.6	2	<0.1	<0.1	0.5	129	0.12	<1	0.1	<0.1	73	<0.1	<0.1	<0.1	1	32.44
3485771	Drill Core	4.29	0.007	1.4	131.2	4.7	60	0.1	7.9	30.5	1389	6.57	6	0.6	1.3	836	<0.1	2.4	<0.1	278	5.80
3485772	Drill Core	5.12	0.011	1.8	82.3	7.0	54	<0.1	7.3	29.1	1472	6.76	8	0.6	1.2	919	<0.1	3.6	<0.1	293	6.94
3485773	Drill Core	2.34	0.014	1.7	219.8	5.9	64	0.2	9.8	35.1	1354	6.95	6	0.6	1.2	603	<0.1	1.8	<0.1	309	5.51
3485774	Drill Core	2.39	0.011	1.7	266.8	5.3	71	0.2	9.9	30.8	1478	7.23	5	0.7	1.4	661	<0.1	2.1	<0.1	278	5.64
3485775	Drill Core	4.63	0.046	3.9	694.4	98.6	165	0.7	28.3	71.4	1771	9.18	12	0.6	1.3	419	1.0	2.2	0.1	155	6.51

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Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485746	Drill Core	0.116	8.4	62	1.48	48	0.403	7.66	1.505	2.61	0.6	16.3	18	0.9	16.7	4.3	0.3	<1	27	18.6	3.2
3485747	Drill Core	0.113	6.2	65	1.43	32	0.363	7.69	1.845	3.03	1.1	19.8	14	0.8	14.3	4.4	0.3	1	27	21.4	3.9
3485748	Drill Core	0.029	8.9	3	0.29	998	0.159	7.71	5.103	3.65	1.4	57.2	18	0.8	10.6	11.8	0.8	1	2	3.5	<0.1
3485749	Drill Core	0.085	12.1	38	1.59	1081	0.322	7.59	3.496	2.96	1.3	31.9	23	0.8	15.0	6.7	0.5	1	17	17.2	0.2
3485750	Rock	0.007	1.0	1	2.74	14	0.005	0.06	0.028	0.01	<0.1	1.5	<1	<0.1	1.9	<0.1	<0.1	<1	<1	1.1	<0.1
3485751	Drill Core	0.129	10.2	7	0.97	1311	0.390	8.15	3.092	4.83	0.6	94.6	22	0.8	13.8	11.5	0.6	2	11	8.9	<0.1
3485752	Drill Core	0.122	10.9	6	0.93	1312	0.369	8.43	3.334	4.52	0.5	82.7	23	0.7	13.2	10.8	0.6	2	11	7.4	<0.1
3485753	Drill Core	0.124	9.3	7	0.96	1195	0.357	8.10	3.669	4.57	1.8	61.1	20	0.7	11.4	10.4	0.6	2	10	13.1	<0.1
3485754	Drill Core	0.136	9.2	33	1.36	1135	0.375	7.74	3.171	4.86	2.0	64.4	20	0.7	11.8	10.2	0.5	2	12	15.8	<0.1
3485755	Core DUP	0.140	10.4	32	1.42	1195	0.388	8.17	3.259	4.26	2.1	68.0	22	0.8	12.8	10.7	0.6	2	13	16.6	<0.1
3485756	Drill Core	0.031	13.4	2	0.35	1382	0.154	7.68	4.198	4.35	0.9	65.0	26	0.9	14.4	11.5	0.7	1	2	4.5	<0.1
3485757	Drill Core	0.028	12.9	2	0.30	1460	0.157	7.60	3.856	4.84	1.0	63.7	25	0.8	13.5	12.3	0.8	2	2	4.2	<0.1
3485758	Drill Core	0.027	12.6	2	0.26	1833	0.151	7.19	1.942	6.58	1.0	54.5	25	0.9	13.6	11.8	0.8	1	2	4.7	<0.1
3485759	Drill Core	0.027	13.8	2	0.27	1824	0.154	7.16	2.214	6.92	1.2	57.3	27	0.9	14.0	12.0	0.8	1	2	4.4	0.2
3485760	Rock Pulp	0.101	29.7	86	1.50	998	0.487	7.45	2.223	3.49	3.9	68.8	62	2.9	21.7	17.1	1.2	3	13	36.9	0.3
3485761	Drill Core	0.029	14.4	2	0.27	2215	0.159	7.65	1.822	6.66	1.4	63.0	28	0.9	14.8	12.4	0.8	1	2	5.0	0.1
3485762	Drill Core	0.029	14.0	2	0.30	1631	0.169	7.77	3.146	4.87	1.0	64.6	27	0.9	14.5	13.1	0.8	2	2	5.4	<0.1
3485763	Drill Core	0.050	13.1	3	0.47	1608	0.212	7.59	3.100	4.66	1.9	59.5	26	0.9	13.9	11.6	0.8	1	4	7.0	<0.1
3485764	Drill Core	0.187	9.4	9	2.18	1415	0.517	8.46	3.607	3.76	5.7	10.8	19	0.7	16.6	3.9	0.2	1	22	22.5	0.2
3485765	Drill Core	0.166	8.4	8	2.40	1343	0.491	8.40	2.638	3.39	1.3	12.7	17	0.6	15.4	4.3	0.3	1	20	15.5	0.4
3485766	Drill Core	0.179	9.6	8	2.45	1397	0.477	8.41	2.626	3.17	1.1	15.4	19	0.5	17.0	4.3	0.3	<1	22	12.6	0.2
3485767	Drill Core	0.162	8.1	7	2.21	1625	0.412	8.17	2.606	3.31	1.1	16.6	17	0.4	14.9	3.7	0.2	<1	19	11.2	0.5
3485768	Drill Core	0.165	8.6	7	2.19	982	0.419	8.23	2.755	3.19	0.9	15.3	17	0.4	15.6	4.2	0.3	<1	19	10.5	0.8
3485769	Drill Core	0.174	9.1	8	2.28	1570	0.457	8.36	2.959	2.75	1.5	18.7	18	0.4	16.1	3.6	0.2	<1	20	10.1	0.5
3485770	Rock	0.007	1.0	1	2.29	10	0.005	0.05	0.029	0.01	<0.1	1.2	<1	<0.1	1.8	<0.1	<0.1	<1	<1	0.9	<0.1
3485771	Drill Core	0.181	7.6	5	2.12	1570	0.412	8.34	2.693	2.65	0.5	19.9	16	0.4	14.8	3.6	0.2	<1	17	8.8	0.2
3485772	Drill Core	0.175	8.9	5	2.06	1376	0.433	8.62	2.471	2.34	0.8	15.3	18	0.4	15.6	3.4	0.2	<1	18	7.1	0.4
3485773	Drill Core	0.163	8.3	5	2.31	1075	0.464	8.73	2.583	3.13	0.7	12.9	17	0.5	15.4	3.2	0.2	<1	20	14.9	0.9
3485774	Drill Core	0.177	9.0	6	2.35	1619	0.443	8.58	2.783	2.74	0.7	13.1	18	0.6	16.2	4.0	0.2	<1	20	13.6	0.4
3485775	Drill Core	0.159	8.6	57	3.58	45	0.252	6.63	1.680	1.32	0.8	10.7	17	0.7	14.8	3.2	0.2	<1	23	20.3	3.6

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485746	Drill Core	73.8	0.5	<0.05	0.005	5	<0.5	<0.5
3485747	Drill Core	82.7	0.6	<0.05	0.011	6	<0.5	0.5
3485748	Drill Core	52.4	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485749	Drill Core	61.8	0.9	<0.05	<0.005	1	<0.5	<0.5
3485750	Rock	0.4	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485751	Drill Core	66.8	2.3	<0.05	<0.005	<1	<0.5	<0.5
3485752	Drill Core	67.2	2.1	<0.05	<0.005	<1	<0.5	<0.5
3485753	Drill Core	66.7	1.6	<0.05	<0.005	<1	<0.5	<0.5
3485754	Drill Core	65.2	1.6	<0.05	<0.005	<1	<0.5	<0.5
3485755	Core DUP	65.7	1.7	<0.05	<0.005	<1	<0.5	<0.5
3485756	Drill Core	81.9	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485757	Drill Core	92.6	1.5	<0.05	<0.005	<1	<0.5	0.5
3485758	Drill Core	135.7	1.3	<0.05	<0.005	<1	<0.5	0.9
3485759	Drill Core	137.3	1.4	<0.05	<0.005	<1	<0.5	0.8
3485760	Rock Pulp	178.0	2.2	0.07	<0.005	2	<0.5	0.9
3485761	Drill Core	145.8	1.5	<0.05	<0.005	<1	<0.5	1.0
3485762	Drill Core	106.1	1.4	<0.05	<0.005	<1	<0.5	0.7
3485763	Drill Core	97.8	1.4	<0.05	<0.005	<1	<0.5	0.6
3485764	Drill Core	68.0	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485765	Drill Core	86.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485766	Drill Core	78.7	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485767	Drill Core	69.3	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485768	Drill Core	72.6	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485769	Drill Core	53.7	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485770	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485771	Drill Core	42.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485772	Drill Core	38.7	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485773	Drill Core	71.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485774	Drill Core	63.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485775	Drill Core	34.9	0.5	0.05	0.006	4	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485776	Drill Core	4.00	0.017	4.4	251.3	5.2	84	0.3	17.7	35.9	1538	7.17	4	0.6	1.0	446	<0.1	2.5	<0.1	233	5.56
3485777	Drill Core	4.37	0.012	2.8	238.4	5.7	108	0.3	34.9	46.4	1977	7.15	4	0.7	1.2	224	0.2	1.4	<0.1	224	6.16
3485778	Drill Core	4.67	0.038	3.3	1254.6	7.2	78	1.0	41.0	80.4	1833	8.74	6	0.6	1.2	629	0.2	3.4	<0.1	178	7.04
3485779	Drill Core	2.81	0.045	1.8	2347.1	7.3	110	1.4	54.9	119.8	1865	11.38	7	0.6	1.4	255	0.4	1.7	<0.1	135	4.52
3485780	Rock Pulp	0.13	0.221	91.7	2602.0	18.5	73	0.4	57.9	14.6	516	4.06	14	4.1	14.9	283	<0.1	1.9	0.6	118	2.42
3485781	Drill Core	5.13	0.023	1.3	1253.3	8.2	123	0.9	30.0	63.3	1587	9.55	6	0.4	0.8	631	0.2	3.2	<0.1	294	5.67
3485782	Drill Core	4.78	0.010	1.1	427.0	6.1	77	0.4	17.0	34.6	1458	8.02	8	0.5	1.1	860	0.1	4.6	<0.1	349	6.81
3485783	Drill Core	4.84	0.055	1.3	1721.2	6.8	87	1.4	19.5	44.4	1471	9.61	6	0.3	0.7	1091	0.3	3.8	<0.1	361	7.55
3485784	Drill Core	5.09	0.043	1.3	1892.1	6.2	86	1.6	24.0	52.8	1567	9.42	6	0.5	1.0	1081	0.3	3.2	<0.1	372	8.07
3485785	Drill Core	4.91	0.027	1.2	961.8	5.1	69	0.7	55.8	58.2	1329	7.45	9	0.4	0.9	681	0.1	3.3	<0.1	272	7.21
3485786	Drill Core	4.51	0.015	1.0	593.2	4.5	81	0.6	33.5	47.1	1495	7.57	6	0.4	0.7	453	0.1	2.2	<0.1	314	5.84
3485787	Drill Core	5.10	0.024	1.1	801.3	5.2	86	0.8	20.5	45.9	1614	8.13	7	0.4	0.7	921	0.2	3.9	<0.1	347	7.57
3485788	Drill Core	4.97	0.018	1.3	722.7	5.3	93	0.7	26.0	62.5	1674	8.77	7	0.3	0.6	648	0.2	3.3	<0.1	291	6.32
3485789	Drill Core	4.53	0.017	2.6	661.3	5.7	88	0.6	24.3	68.2	1607	8.94	9	0.4	0.8	756	0.2	3.4	<0.1	317	6.61
3485790	Rock	1.95	<0.005	<0.1	1.2	0.4	2	<0.1	<0.1	0.5	138	0.09	1	<0.1	<0.1	75	<0.1	<0.1	<0.1	1	33.01
3485791	Drill Core	4.30	0.019	0.8	800.8	4.8	87	0.8	18.5	41.1	1586	8.55	6	0.3	0.6	754	0.2	4.0	<0.1	377	6.27
3485792	Drill Core	5.23	0.025	2.1	519.5	5.2	100	0.6	29.4	88.7	1834	9.18	8	0.3	0.5	403	0.2	3.3	0.1	222	5.38
3485793	Drill Core	4.85	0.009	1.3	307.7	4.5	103	0.3	21.7	35.8	1756	6.85	5	0.4	0.8	437	0.2	3.2	0.1	234	5.62
3485794	Drill Core	4.57	0.015	2.1	302.3	5.0	101	0.4	28.6	52.0	2226	7.98	5	0.5	0.9	296	0.3	2.3	0.1	213	4.93
3485795	Core DUP		0.015	1.9	295.3	4.9	99	0.3	28.1	51.3	2198	7.80	5	0.5	0.9	289	0.4	2.2	0.2	210	4.81
3485796	Drill Core	4.96	0.023	2.2	230.9	5.2	86	0.3	28.4	50.7	1930	8.33	7	0.5	0.8	347	0.3	2.6	<0.1	250	4.71
3485797	Drill Core	4.56	0.022	2.2	250.8	4.8	73	0.3	20.4	34.0	1861	8.04	5	0.5	0.9	393	0.2	2.9	<0.1	376	5.92
3485798	Drill Core	4.63	0.023	2.6	199.2	5.2	63	0.2	21.7	48.3	1728	8.27	6	0.6	1.0	704	0.2	3.5	<0.1	348	6.78
3485799	Drill Core	2.80	0.017	1.2	221.7	4.3	52	0.2	12.6	26.4	1592	7.17	6	0.6	1.0	701	0.1	3.1	<0.1	354	7.15
3485800	Rock Pulp	0.13	0.633	337.0	4959.4	19.1	68	1.2	31.8	16.4	528	4.64	53	4.0	14.2	331	<0.1	3.1	1.3	118	2.47
3485801	Drill Core	4.63	0.042	16.2	427.8	5.8	95	0.5	44.3	47.4	1720	7.45	11	0.7	1.0	187	0.2	1.3	<0.1	281	6.52
3485802	Drill Core	4.44	0.015	3.9	162.8	8.2	59	0.2	12.5	30.9	1079	7.69	7	0.6	1.4	461	<0.1	2.3	<0.1	265	4.13
3485803	Drill Core	2.62	0.018	3.0	104.6	12.3	71	0.2	15.2	44.5	1064	7.47	7	0.4	0.9	573	<0.1	2.9	0.1	278	3.84
3485804	Drill Core	2.99	0.019	2.5	68.0	5.9	76	0.2	12.7	29.8	1224	6.71	5	0.5	1.0	416	<0.1	2.4	0.1	270	4.76
3485805	Drill Core	4.51	0.021	2.4	66.7	5.4	71	0.2	13.2	32.0	1296	6.25	6	0.6	1.3	482	<0.1	2.3	0.2	252	3.50

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Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485776	Drill Core	0.109	6.3	28	3.08	138	0.342	8.28	1.978	3.02	3.1	8.4	13	0.5	10.9	2.9	0.2	<1	20	26.3	3.0
3485777	Drill Core	0.107	7.2	101	4.70	88	0.324	6.61	2.242	1.44	1.0	11.3	14	0.4	12.8	2.3	0.2	<1	28	25.1	2.6
3485778	Drill Core	0.100	8.0	69	4.35	88	0.251	7.42	1.726	1.59	0.5	16.3	15	0.7	14.8	3.7	0.2	<1	26	17.6	3.0
3485779	Drill Core	0.064	5.8	59	4.79	140	0.183	6.21	1.093	1.52	0.4	25.2	13	0.6	14.2	4.1	0.5	<1	24	23.5	3.7
3485780	Rock Pulp	0.091	26.9	79	1.38	938	0.459	6.72	1.975	3.18	3.4	68.3	58	2.9	20.8	16.3	1.2	3	12	30.2	0.3
3485781	Drill Core	0.105	5.6	19	2.82	992	0.431	7.43	1.228	2.28	0.6	20.1	12	0.7	12.7	3.1	0.3	<1	21	14.1	0.8
3485782	Drill Core	0.162	8.1	25	2.76	834	0.498	7.98	2.361	1.56	0.7	18.8	16	0.6	14.0	3.2	0.2	<1	24	11.5	0.1
3485783	Drill Core	0.063	4.5	10	2.89	671	0.490	8.17	1.347	1.56	0.6	20.6	10	0.8	11.4	2.8	0.2	<1	27	11.8	0.3
3485784	Drill Core	0.077	4.9	17	3.10	469	0.488	7.86	1.277	1.12	0.6	20.3	11	0.7	12.8	2.4	0.2	<1	30	10.2	0.4
3485785	Drill Core	0.082	4.7	77	3.47	433	0.356	7.44	1.702	1.31	1.6	14.1	10	0.5	9.3	2.1	0.2	<1	23	20.2	0.9
3485786	Drill Core	0.068	4.0	51	3.56	792	0.403	7.50	1.582	2.15	0.5	17.3	9	0.5	10.3	2.1	0.2	<1	28	19.8	0.6
3485787	Drill Core	0.063	3.8	16	3.44	613	0.453	7.77	1.753	1.50	0.5	19.0	8	0.6	10.9	2.2	0.2	<1	29	14.5	0.5
3485788	Drill Core	0.061	3.7	33	3.58	693	0.355	7.62	1.203	1.86	0.3	15.1	8	0.4	9.6	1.7	0.1	<1	25	14.7	1.4
3485789	Drill Core	0.059	3.9	34	3.45	631	0.406	8.14	1.418	1.60	0.4	13.5	8	0.5	9.8	1.8	0.1	<1	27	17.1	1.7
3485790	Rock	0.007	1.0	2	2.31	14	0.004	0.04	0.029	0.01	<0.1	1.1	<1	<0.1	1.8	<0.1	<0.1	<1	<1	0.8	<0.1
3485791	Drill Core	0.053	3.4	10	3.40	715	0.478	8.23	1.597	1.37	0.4	14.7	8	0.5	9.6	1.9	0.1	<1	29	18.4	0.3
3485792	Drill Core	0.101	4.3	60	4.52	140	0.317	7.21	1.163	1.92	0.5	10.3	10	0.4	9.8	1.8	0.1	<1	23	25.1	3.7
3485793	Drill Core	0.069	5.0	48	4.27	513	0.357	7.75	1.326	2.38	0.5	13.4	11	0.5	10.1	1.9	0.1	<1	23	24.7	1.7
3485794	Drill Core	0.111	7.6	71	4.95	67	0.305	6.34	1.383	1.60	0.5	14.7	15	0.5	13.1	1.6	0.1	<1	25	20.8	3.7
3485795	Core DUP	0.106	7.7	66	4.91	90	0.297	6.31	1.380	1.58	0.5	14.5	15	0.5	12.7	1.5	0.1	<1	25	20.2	3.7
3485796	Drill Core	0.096	6.3	73	4.53	106	0.364	7.19	1.406	1.95	0.6	13.0	14	0.6	12.7	1.9	0.1	<1	28	22.6	3.4
3485797	Drill Core	0.090	7.0	55	4.24	312	0.491	6.93	1.700	1.62	1.0	12.2	14	0.7	14.8	2.1	0.1	<1	32	20.7	2.5
3485798	Drill Core	0.087	5.9	58	3.63	344	0.470	7.15	1.551	1.06	0.8	11.8	13	1.1	13.0	1.9	0.1	<1	31	17.1	2.7
3485799	Drill Core	0.059	4.0	15	2.93	444	0.476	7.66	1.745	1.23	0.9	11.5	9	1.0	10.2	2.0	0.1	<1	23	16.7	0.9
3485800	Rock Pulp	0.102	27.0	65	1.35	542	0.494	6.88	2.014	3.25	3.0	79.4	55	3.1	20.0	18.7	1.3	3	12	29.6	0.7
3485801	Drill Core	0.100	5.6	84	4.24	498	0.405	6.78	1.426	1.31	1.3	11.2	12	0.9	11.0	2.3	0.2	<1	25	33.1	2.4
3485802	Drill Core	0.151	7.8	15	2.02	57	0.375	7.69	2.778	1.92	0.9	7.5	16	0.6	14.8	3.3	0.2	<1	21	13.9	4.6
3485803	Drill Core	0.150	5.9	10	2.14	63	0.397	7.61	2.965	2.25	0.9	8.8	13	0.5	12.4	2.9	0.2	<1	20	15.5	4.5
3485804	Drill Core	0.142	7.4	9	2.38	112	0.382	7.69	2.514	2.39	0.9	8.0	15	0.5	12.5	2.6	0.2	<1	20	16.8	3.8
3485805	Drill Core	0.155	7.1	19	2.52	58	0.404	8.01	2.443	3.13	1.2	7.7	15	0.6	13.2	4.0	0.2	<1	21	16.9	3.1

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485776	Drill Core	84.6	0.4	<0.05	<0.005	4	<0.5	<0.5
3485777	Drill Core	36.0	0.5	0.12	0.007	4	<0.5	<0.5
3485778	Drill Core	41.4	0.7	0.09	0.009	6	<0.5	<0.5
3485779	Drill Core	46.8	0.9	<0.05	0.013	5	<0.5	<0.5
3485780	Rock Pulp	169.9	2.1	0.06	<0.005	1	<0.5	0.8
3485781	Drill Core	51.0	0.7	<0.05	<0.005	2	<0.5	<0.5
3485782	Drill Core	32.2	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485783	Drill Core	39.9	0.8	0.05	<0.005	<1	<0.5	<0.5
3485784	Drill Core	28.6	0.8	0.06	<0.005	1	<0.5	<0.5
3485785	Drill Core	36.3	0.5	<0.05	<0.005	1	<0.5	<0.5
3485786	Drill Core	58.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485787	Drill Core	40.7	0.6	0.06	<0.005	<1	<0.5	<0.5
3485788	Drill Core	43.7	0.6	0.07	<0.005	2	<0.5	<0.5
3485789	Drill Core	44.0	0.6	0.05	<0.005	2	<0.5	<0.5
3485790	Rock	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3485791	Drill Core	30.1	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485792	Drill Core	35.7	0.4	0.08	0.009	6	<0.5	<0.5
3485793	Drill Core	70.1	0.5	0.08	0.005	3	<0.5	<0.5
3485794	Drill Core	50.5	0.5	0.15	0.011	6	<0.5	<0.5
3485795	Core DUP	49.9	0.5	0.14	0.009	5	<0.5	<0.5
3485796	Drill Core	56.8	0.5	0.10	0.017	5	<0.5	<0.5
3485797	Drill Core	50.6	0.5	0.10	<0.005	5	<0.5	<0.5
3485798	Drill Core	26.5	0.5	0.15	<0.005	4	<0.5	<0.5
3485799	Drill Core	26.9	0.5	0.08	<0.005	2	<0.5	<0.5
3485800	Rock Pulp	158.8	2.3	0.08	0.217	3	<0.5	0.8
3485801	Drill Core	32.7	0.5	0.07	<0.005	3	<0.5	<0.5
3485802	Drill Core	37.6	0.3	<0.05	<0.005	4	<0.5	<0.5
3485803	Drill Core	33.8	0.4	<0.05	<0.005	4	<0.5	<0.5
3485804	Drill Core	50.8	0.4	<0.05	<0.005	2	<0.5	<0.5
3485805	Drill Core	66.7	0.4	<0.05	<0.005	2	0.6	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485806	Drill Core	4.04	0.021	2.9	165.9	4.2	77	0.3	22.6	32.7	1505	6.61	5	0.6	1.2	418	<0.1	1.9	0.2	273	4.42
3485807	Drill Core	4.53	0.018	3.2	137.3	4.1	79	0.2	27.7	36.0	1387	7.18	5	0.5	1.1	398	<0.1	1.6	0.1	260	3.53
3485808	Drill Core	5.00	0.011	2.0	150.7	4.7	64	0.1	94.5	38.5	1392	7.66	7	0.6	1.2	908	<0.1	3.1	<0.1	379	6.10
3485809	Drill Core	4.42	0.005	1.1	117.6	3.6	57	0.2	131.8	35.1	1156	5.74	6	1.1	2.1	676	<0.1	2.0	<0.1	218	5.68
3485810	Rock	1.70	<0.005	<0.1	0.8	3.9	2	<0.1	<0.1	0.5	138	0.11	1	0.1	<0.1	75	<0.1	<0.1	<0.1	<1	32.71
3485811	Drill Core	4.67	0.007	1.3	147.2	6.0	42	0.1	6.6	13.7	839	3.84	5	1.2	2.2	913	<0.1	2.0	<0.1	165	3.71
3485812	Drill Core	3.44	0.005	0.8	38.3	4.4	120	<0.1	107.2	37.4	2215	6.93	6	1.0	1.8	661	<0.1	2.2	<0.1	250	5.74
3485813	Drill Core	3.61	<0.005	0.4	43.6	4.9	48	<0.1	4.8	11.1	815	3.38	3	0.8	1.8	787	<0.1	1.0	<0.1	153	3.80
3485814	Drill Core	2.40	0.005	<0.1	26.3	5.0	44	<0.1	4.3	12.5	743	3.43	4	0.7	1.8	569	<0.1	0.7	<0.1	149	3.50
3485815	Drill Core	3.66	<0.005	0.3	21.6	6.0	41	<0.1	6.1	11.3	708	3.65	4	0.7	1.9	569	0.1	0.8	<0.1	154	3.19
3485816	Drill Core	2.21	<0.005	0.2	1.0	5.3	130	<0.1	106.4	31.2	1840	6.06	4	0.9	2.0	309	<0.1	0.7	<0.1	242	6.52
3485817	Drill Core	2.99	0.014	10.7	91.1	4.9	120	0.2	71.1	28.5	1653	5.22	4	0.7	1.8	260	0.5	0.8	<0.1	210	6.22
3485818	Drill Core	4.88	0.006	0.8	112.4	2.5	107	0.1	99.4	38.2	1798	5.92	4	0.9	1.8	225	0.1	0.4	<0.1	214	6.69
3485819	Drill Core	5.04	0.072	2.6	199.9	3.5	96	0.3	48.3	35.8	1302	6.10	4	0.7	1.8	169	0.1	0.8	<0.1	249	4.63
3485820	Rock Pulp	0.13	0.641	339.5	5043.3	21.6	73	1.3	35.5	17.4	534	4.63	53	4.2	15.6	322	0.7	3.6	1.6	118	2.50
3485821	Drill Core	5.00	0.495	8.2	297.6	5.0	83	0.5	29.9	29.6	1265	5.60	4	1.0	2.1	161	0.4	1.0	0.1	234	4.90
3485822	Drill Core	3.29	0.054	8.0	160.9	6.1	92	0.3	27.2	28.9	1232	5.40	4	0.9	1.8	170	0.4	1.4	0.1	226	5.08
3485823	Drill Core	3.00	0.062	3.9	192.6	5.7	72	0.3	12.8	33.9	991	5.87	5	0.6	1.1	170	0.2	1.2	<0.1	250	3.18
3485824	Drill Core	4.19	0.017	1.7	98.2	3.2	82	0.1	6.4	28.8	1413	6.29	2	0.7	1.8	305	<0.1	0.6	<0.1	246	4.72
3485825	Drill Core	4.19	0.019	2.0	81.6	5.7	77	0.2	7.3	34.2	1453	6.74	6	0.8	1.9	323	0.1	1.0	0.2	246	4.24
3485826	Drill Core	3.51	0.019	3.1	145.8	6.6	102	0.2	6.6	30.2	1711	6.51	8	0.6	1.6	289	0.1	1.0	0.2	239	3.90
3485827	Drill Core	1.91	0.019	6.5	91.2	6.9	35	0.1	1.0	10.0	680	2.98	7	0.9	1.8	183	0.3	0.5	0.2	54	2.91
3485828	Drill Core	4.10	0.008	2.1	83.9	3.4	84	0.2	146.1	37.7	1525	5.56	5	1.0	2.3	339	<0.1	1.2	<0.1	187	5.38
3485829	Drill Core	2.32	<0.005	0.3	148.8	2.4	68	0.2	176.2	44.5	1454	5.86	3	1.0	1.7	369	0.1	1.3	<0.1	211	7.17
3485830	Rock	1.71	<0.005	0.1	2.2	0.7	5	<0.1	2.0	0.7	155	0.13	6	0.2	<0.1	88	0.2	<0.1	<0.1	1	31.91
3485831	Drill Core	3.53	0.006	1.5	161.9	5.8	89	0.2	42.8	25.5	1032	5.59	3	0.7	1.8	229	0.2	2.9	<0.1	222	4.78
3485832	Drill Core	4.05	0.035	3.2	122.7	11.4	76	0.3	31.0	21.1	912	3.81	5	0.7	1.7	221	0.2	1.8	<0.1	132	5.24
3485833	Drill Core	3.90	0.037	5.6	108.6	48.4	153	0.3	83.0	29.5	1603	4.73	5	0.8	1.1	443	0.8	1.5	0.1	165	9.08
3485834	Drill Core	4.18	<0.005	6.3	112.7	10.5	100	0.2	49.5	23.9	1349	4.52	3	1.6	3.0	596	0.2	1.4	<0.1	180	5.06
3485835	Core DUP		<0.005	6.0	111.6	10.8	97	0.2	50.6	24.1	1330	4.46	2	1.6	3.2	624	<0.1	1.5	<0.1	176	4.90

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485806	Drill Core	0.130	7.0	68	3.37	39	0.387	6.94	2.570	1.99	1.0	11.3	14	0.6	12.6	3.0	0.2	<1	31	12.1	3.5
3485807	Drill Core	0.135	7.8	77	3.53	35	0.339	7.09	2.545	2.26	0.9	8.1	16	0.6	13.8	2.3	0.2	<1	30	16.7	4.2
3485808	Drill Core	0.138	7.1	182	4.67	183	0.442	6.61	1.284	1.95	1.0	17.3	14	0.7	11.1	2.2	0.1	<1	32	19.2	1.7
3485809	Drill Core	0.198	9.7	241	4.97	1077	0.317	7.36	1.906	2.54	0.8	26.6	18	0.5	10.3	3.5	0.2	1	19	23.1	<0.1
3485810	Rock	0.006	1.0	1	2.23	10	0.005	0.05	0.028	<0.01	<0.1	1.3	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.1	<0.1
3485811	Drill Core	0.170	8.4	4	1.23	1529	0.323	8.27	2.616	4.01	1.2	24.8	18	0.7	9.8	7.6	0.4	1	6	14.4	0.4
3485812	Drill Core	0.208	9.9	226	5.05	904	0.359	7.06	1.739	1.90	1.4	27.7	19	0.5	12.0	3.0	0.2	2	27	26.4	0.5
3485813	Drill Core	0.111	9.9	6	0.85	1412	0.332	7.60	2.613	3.84	1.6	57.1	21	0.7	11.3	9.8	0.5	2	9	7.5	<0.1
3485814	Drill Core	0.113	8.8	6	0.82	1391	0.320	7.67	3.001	5.48	1.3	45.0	20	0.7	9.8	9.5	0.5	2	8	7.5	<0.1
3485815	Drill Core	0.121	10.2	9	0.95	1453	0.333	7.79	2.718	5.54	1.3	51.2	22	0.8	11.7	9.9	0.5	1	9	8.2	<0.1
3485816	Drill Core	0.196	8.8	207	4.86	727	0.330	6.31	0.677	1.32	1.5	25.5	17	0.5	11.3	2.6	0.1	2	24	35.1	<0.1
3485817	Drill Core	0.147	11.0	128	3.39	754	0.265	6.61	0.645	2.90	2.2	20.1	20	0.5	12.2	4.3	0.2	2	18	29.9	0.7
3485818	Drill Core	0.172	8.6	195	4.57	421	0.307	5.77	0.197	1.07	1.5	19.7	16	0.5	10.8	2.4	0.1	<1	24	38.2	0.2
3485819	Drill Core	0.170	8.0	89	3.14	658	0.287	7.93	1.459	3.44	2.0	22.1	16	0.5	11.2	3.0	0.2	2	17	26.1	1.2
3485820	Rock Pulp	0.102	29.9	65	1.37	403	0.469	7.04	2.032	3.25	3.0	78.5	59	3.5	22.0	19.1	1.3	2	11	26.3	0.7
3485821	Drill Core	0.149	10.4	49	2.26	542	0.259	7.89	1.725	3.71	3.3	26.1	19	0.5	11.6	3.4	0.2	2	13	23.6	1.9
3485822	Drill Core	0.138	8.7	42	2.11	745	0.277	7.47	1.477	3.97	3.2	18.9	16	0.6	11.0	3.6	0.2	<1	15	19.4	1.4
3485823	Drill Core	0.137	5.7	6	1.72	110	0.400	7.29	2.007	4.20	6.4	11.7	13	0.7	13.3	5.0	0.3	1	14	15.2	1.7
3485824	Drill Core	0.140	9.7	4	2.04	1103	0.415	8.30	3.106	2.92	2.8	19.9	18	0.7	16.8	5.6	0.3	2	16	16.2	0.4
3485825	Drill Core	0.154	9.6	6	2.07	1257	0.440	8.52	2.851	3.39	3.0	29.7	18	0.9	16.5	5.8	0.3	1	16	18.3	1.6
3485826	Drill Core	0.149	9.0	4	2.21	241	0.395	8.03	2.548	3.20	1.3	21.1	18	1.0	15.6	5.9	0.3	<1	15	20.6	1.4
3485827	Drill Core	0.050	5.5	4	0.62	146	0.180	6.56	1.753	5.11	1.5	61.5	14	1.0	9.6	8.6	0.6	<1	3	7.8	1.9
3485828	Drill Core	0.168	9.6	256	4.85	1033	0.289	6.51	1.429	3.01	0.8	36.7	18	0.5	11.3	3.7	0.2	2	19	18.1	0.3
3485829	Drill Core	0.179	8.0	324	5.67	828	0.306	5.67	0.838	1.96	0.7	25.9	15	0.5	9.8	2.2	0.1	2	21	24.2	<0.1
3485830	Rock	0.008	1.2	2	2.86	13	0.006	0.05	0.027	<0.01	<0.1	1.4	1	0.1	2.4	0.2	<0.1	<1	<1	1.3	<0.1
3485831	Drill Core	0.154	9.9	80	2.28	855	0.340	7.81	1.881	3.98	2.9	18.2	20	0.8	10.9	4.7	0.3	2	18	18.3	0.1
3485832	Drill Core	0.124	8.1	64	1.09	265	0.189	5.91	0.535	5.03	4.3	22.0	16	0.5	9.2	3.9	0.2	1	14	10.2	1.0
3485833	Drill Core	0.129	8.2	174	2.49	633	0.198	5.53	0.496	3.70	3.8	21.5	15	0.4	10.8	3.0	0.2	2	19	19.5	0.9
3485834	Drill Core	0.168	12.6	87	2.66	1369	0.267	8.01	1.432	5.17	2.9	26.0	23	0.5	11.0	4.8	0.2	1	12	23.2	0.1
3485835	Core DUP	0.166	13.2	90	2.61	1402	0.278	7.90	1.398	5.14	2.9	22.9	24	0.5	11.8	5.2	0.3	1	11	22.2	0.1

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485806	Drill Core	43.6	0.5	0.05	<0.005	2	0.6	<0.5
3485807	Drill Core	50.1	0.3	0.06	<0.005	3	<0.5	<0.5
3485808	Drill Core	43.9	0.6	0.05	<0.005	1	<0.5	<0.5
3485809	Drill Core	55.6	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485810	Rock	0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485811	Drill Core	66.2	0.7	<0.05	<0.005	<1	<0.5	0.5
3485812	Drill Core	42.5	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485813	Drill Core	68.8	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485814	Drill Core	87.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485815	Drill Core	97.1	1.3	<0.05	<0.005	<1	<0.5	0.5
3485816	Drill Core	31.5	0.8	<0.05	<0.005	<1	1.1	<0.5
3485817	Drill Core	71.0	0.6	<0.05	0.005	<1	0.9	<0.5
3485818	Drill Core	35.7	0.7	0.05	<0.005	<1	0.7	<0.5
3485819	Drill Core	91.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485820	Rock Pulp	161.1	2.4	0.11	0.239	3	<0.5	0.8
3485821	Drill Core	107.0	0.7	0.06	0.006	<1	<0.5	<0.5
3485822	Drill Core	102.5	0.6	<0.05	0.008	<1	0.5	<0.5
3485823	Drill Core	84.7	0.4	0.07	<0.005	<1	<0.5	<0.5
3485824	Drill Core	65.6	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485825	Drill Core	75.8	1.2	<0.05	<0.005	<1	0.6	<0.5
3485826	Drill Core	80.7	0.7	0.07	<0.005	<1	<0.5	<0.5
3485827	Drill Core	67.9	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485828	Drill Core	64.1	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485829	Drill Core	49.4	0.9	<0.05	<0.005	<1	0.7	<0.5
3485830	Rock	0.2	<0.1	<0.05	<0.005	<1	1.8	<0.5
3485831	Drill Core	104.7	0.5	0.06	<0.005	<1	0.8	<0.5
3485832	Drill Core	118.9	0.6	<0.05	<0.005	1	<0.5	<0.5
3485833	Drill Core	78.5	0.5	<0.05	<0.005	<1	1.2	<0.5
3485834	Drill Core	104.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485835	Core DUP	108.1	0.6	<0.05	<0.005	<1	1.1	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485836	Drill Core	4.90	0.007	7.3	156.3	10.3	97	0.2	26.8	36.2	1495	7.19	3	0.9	1.5	557	0.2	1.4	<0.1	304	6.18
3485837	Drill Core	4.59	<0.005	1.9	213.2	60.3	76	0.2	88.0	34.3	1330	5.55	2	0.8	1.8	509	<0.1	1.0	<0.1	232	6.90
3485838	Drill Core	4.87	0.006	0.3	109.7	3.7	68	0.2	140.5	40.3	1354	5.82	2	1.0	2.1	448	<0.1	1.0	<0.1	213	6.96
3485839	Drill Core	3.75	0.008	13.5	114.4	4.8	81	0.1	76.7	35.2	1220	6.17	3	1.4	1.9	376	0.2	0.8	<0.1	235	4.89
3485840	Rock Pulp	0.13	0.634	333.3	5038.4	21.2	72	1.3	34.1	18.1	528	4.59	49	4.0	15.7	328	0.7	3.3	1.4	115	2.48
3485841	Drill Core	2.88	0.005	1.3	74.8	5.7	92	0.1	133.6	33.3	1336	4.56	2	0.9	1.4	323	0.2	0.4	<0.1	173	7.14
3485842	Drill Core	2.24	0.009	9.9	256.5	16.1	124	0.4	171.4	45.0	1355	6.51	3	1.3	1.8	360	0.3	0.7	0.2	240	5.74
3485843	Drill Core	4.64	0.005	2.1	93.4	11.2	96	0.2	100.5	33.1	1392	7.12	4	1.0	1.6	396	0.1	0.8	<0.1	267	4.65
3485844	Drill Core	4.48	0.025	42.6	279.4	26.9	125	0.6	10.9	28.5	1965	8.55	11	1.8	1.8	567	0.4	1.5	0.3	349	6.51
3485845	Drill Core	4.39	0.008	1.6	123.1	7.7	121	0.2	8.4	24.4	1696	7.46	4	0.7	1.5	529	0.2	1.8	<0.1	274	3.92
3485846	Drill Core	4.66	0.008	1.8	158.0	21.6	126	0.2	6.8	29.2	1637	6.56	6	0.7	1.4	749	<0.1	2.6	<0.1	266	4.85
3485847	Drill Core	4.34	0.007	1.8	164.5	12.2	114	0.2	7.9	25.8	1630	6.52	6	0.8	1.7	832	<0.1	2.5	<0.1	277	5.55
3485848	Drill Core	4.78	0.007	1.9	154.8	11.6	117	0.2	7.5	29.6	1549	6.58	5	0.8	1.7	732	0.2	3.2	<0.1	267	5.20
3485849	Drill Core	4.75	0.010	1.9	159.3	9.5	99	0.4	8.2	35.0	1699	6.59	9	0.9	2.0	1010	0.2	5.8	<0.1	280	6.01
3485850	Rock	1.63	<0.005	<0.1	0.5	0.5	3	<0.1	<0.1	0.3	128	0.10	<1	0.2	<0.1	85	<0.1	<0.1	<0.1	1	32.15
3485851	Drill Core	4.52	0.009	2.7	67.6	9.6	70	0.2	8.9	42.3	1764	6.38	11	1.1	2.3	1156	0.2	6.2	0.1	286	7.12
3485852	Drill Core	4.19	0.008	3.0	210.3	5.2	93	0.3	9.2	28.4	2119	5.81	5	0.8	1.6	653	0.2	2.3	<0.1	270	5.78
3485853	Drill Core	2.98	<0.005	2.5	179.0	5.9	87	0.2	8.5	21.8	2109	6.09	7	0.9	1.7	805	0.2	3.2	<0.1	280	5.91
3485854	Drill Core	3.26	0.077	4.3	4.7	3.8	16	<0.1	0.9	9.1	494	2.42	6	1.6	3.5	186	<0.1	0.5	0.2	52	2.00
3485855	Drill Core	3.61	0.153	3.9	3.7	3.8	15	<0.1	0.5	7.6	468	2.54	5	1.6	3.3	193	<0.1	0.5	0.2	52	1.80
3485856	Drill Core	4.17	0.035	4.6	5.5	3.2	19	<0.1	1.0	6.7	538	2.28	5	1.4	3.4	351	<0.1	0.5	<0.1	55	2.17
3485857	Drill Core	3.86	<0.005	1.5	78.1	5.8	57	0.1	6.7	13.2	1250	5.17	7	0.6	1.4	660	<0.1	1.9	<0.1	191	4.41
3485858	Drill Core	3.86	<0.005	1.3	31.6	2.4	49	<0.1	5.9	10.6	1146	4.55	3	0.7	1.5	315	<0.1	1.0	<0.1	184	4.96
3485859	Drill Core	4.35	<0.005	1.6	86.6	2.2	72	0.1	8.3	26.1	1148	5.31	2	0.6	1.5	315	<0.1	0.9	<0.1	197	3.68
3485860	Rock Pulp	0.13	0.215	85.8	2700.6	20.7	81	0.4	61.7	15.3	547	4.21	18	4.2	16.5	285	0.1	2.1	0.7	123	2.52
3485861	Drill Core	4.42	0.010	1.5	202.3	6.3	101	0.3	7.8	23.4	1761	6.47	6	0.8	1.7	744	0.1	2.8	<0.1	268	5.59
3485862	Drill Core	4.90	0.015	3.1	130.1	6.9	118	0.2	7.3	46.2	1742	6.92	8	0.7	1.6	602	0.1	2.0	0.2	298	5.84
3485863	Drill Core	2.18	<0.005	3.4	41.2	4.9	165	<0.1	7.3	17.6	2091	6.35	6	0.8	1.6	867	<0.1	2.3	<0.1	290	5.86
3485864	Drill Core	4.02	0.009	3.0	31.1	5.6	134	<0.1	9.1	45.7	2143	6.66	7	0.8	1.5	642	<0.1	2.6	0.2	269	5.18
3485865	Drill Core	1.89	0.013	1.6	483.5	4.7	108	0.6	4.3	26.7	1798	4.66	5	0.8	2.5	622	0.2	1.5	<0.1	207	4.68

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485836	Drill Core	0.171	9.6	39	2.79	880	0.499	7.39	2.493	2.48	1.5	25.5	18	0.6	14.8	3.6	0.2	<1	25	20.7	0.3
3485837	Drill Core	0.171	9.5	179	3.73	894	0.349	6.50	1.338	2.37	2.3	32.0	18	0.7	12.9	3.2	0.2	<1	21	28.6	<0.1
3485838	Drill Core	0.171	10.1	269	5.48	623	0.321	5.95	0.763	1.31	1.0	28.1	19	0.4	10.3	2.8	0.1	<1	24	31.7	<0.1
3485839	Drill Core	0.161	9.6	155	3.79	971	0.396	7.33	1.957	2.63	2.3	36.9	18	0.7	14.1	4.4	0.2	<1	20	27.5	0.3
3485840	Rock Pulp	0.098	30.4	71	1.36	669	0.450	6.95	2.032	3.24	3.5	78.4	60	3.3	22.5	18.6	1.4	3	11	26.9	0.8
3485841	Drill Core	0.132	7.2	257	3.93	677	0.235	4.23	0.147	1.35	1.0	17.4	13	0.5	9.0	1.8	<0.1	<1	17	27.2	<0.1
3485842	Drill Core	0.184	9.1	360	4.84	1008	0.246	5.95	0.050	2.98	1.2	20.7	16	0.8	9.9	2.0	0.1	<1	19	36.3	1.0
3485843	Drill Core	0.158	9.0	201	4.26	1090	0.368	7.02	1.366	4.05	2.1	21.4	17	0.5	11.5	3.7	0.2	1	19	20.4	0.8
3485844	Drill Core	0.172	11.3	7	2.72	259	0.499	10.32	2.459	5.82	6.2	24.8	22	1.8	18.0	6.5	0.4	2	20	18.3	2.8
3485845	Drill Core	0.143	9.3	6	2.39	1553	0.441	8.18	2.130	3.67	2.5	22.9	20	0.7	14.1	5.6	0.3	1	16	16.1	0.3
3485846	Drill Core	0.150	7.7	5	2.04	1481	0.449	8.31	2.568	3.28	0.9	33.1	17	0.7	15.7	6.0	0.3	<1	15	10.6	<0.1
3485847	Drill Core	0.146	8.8	6	2.14	1188	0.466	8.64	2.513	2.73	1.0	32.0	18	0.8	16.4	5.6	0.3	1	17	11.1	<0.1
3485848	Drill Core	0.130	7.9	6	2.10	1046	0.462	8.32	2.541	2.72	0.7	33.8	16	0.7	16.5	5.7	0.3	1	17	11.8	0.1
3485849	Drill Core	0.163	11.2	5	2.30	1338	0.477	9.12	2.440	2.61	1.3	34.7	21	0.9	19.2	7.0	0.4	1	18	12.8	0.3
3485850	Rock	0.006	1.1	<1	2.41	21	0.005	0.12	0.068	0.02	<0.1	1.8	<1	<0.1	2.5	0.2	<0.1	<1	<1	1.4	<0.1
3485851	Drill Core	0.151	11.6	6	2.11	1136	0.475	8.92	2.019	2.55	1.7	29.8	22	0.9	19.0	6.5	0.4	1	16	7.6	0.9
3485852	Drill Core	0.142	9.9	5	2.54	1491	0.474	8.38	2.151	3.30	1.9	26.6	19	0.8	17.9	6.2	0.3	<1	16	11.0	0.4
3485853	Drill Core	0.145	10.1	5	2.27	1325	0.470	8.61	2.275	3.03	1.5	28.5	20	1.0	18.8	6.1	0.3	<1	18	9.2	0.3
3485854	Drill Core	0.057	10.8	2	0.55	377	0.241	8.34	2.484	5.81	2.7	63.0	22	0.7	13.4	10.8	0.7	<1	3	4.0	0.9
3485855	Drill Core	0.078	10.6	2	0.50	296	0.245	8.01	1.810	5.07	3.6	54.9	22	0.9	14.5	9.9	0.7	<1	3	3.4	1.1
3485856	Drill Core	0.066	11.2	2	0.55	1498	0.249	8.18	2.769	3.95	2.2	55.2	22	1.0	13.7	9.4	0.7	<1	3	4.1	0.4
3485857	Drill Core	0.180	9.2	6	1.56	1016	0.573	8.23	2.802	3.13	1.4	25.1	21	1.3	20.2	9.3	0.6	1	13	11.1	<0.1
3485858	Drill Core	0.166	9.7	5	1.37	1027	0.537	7.86	3.112	3.34	7.6	18.5	21	1.0	18.0	8.5	0.5	<1	12	12.0	<0.1
3485859	Drill Core	0.145	8.7	6	1.76	1003	0.499	7.80	3.208	3.00	4.5	18.9	19	1.0	16.2	8.3	0.5	1	14	15.7	0.2
3485860	Rock Pulp	0.099	29.8	80	1.45	935	0.480	7.11	2.068	2.96	4.0	74.2	58	3.3	23.3	16.6	1.2	3	12	26.6	0.3
3485861	Drill Core	0.145	10.0	5	2.13	1064	0.449	8.46	2.218	2.41	1.6	32.2	19	0.8	17.6	6.0	0.3	2	16	15.8	0.2
3485862	Drill Core	0.154	9.6	5	2.24	931	0.443	8.50	2.206	2.88	2.3	22.1	18	0.9	17.1	5.3	0.3	1	17	19.5	1.1
3485863	Drill Core	0.157	9.3	5	2.18	1246	0.487	8.88	2.414	2.81	1.6	56.7	18	0.8	17.7	6.0	0.3	1	17	14.4	<0.1
3485864	Drill Core	0.145	10.6	6	2.30	985	0.474	8.62	2.106	3.56	2.2	19.4	20	0.7	16.0	5.4	0.3	<1	18	17.3	1.4
3485865	Drill Core	0.309	6.6	2	1.89	995	0.445	9.17	3.929	2.60	1.7	32.6	14	0.6	13.6	6.2	0.4	<1	10	21.0	0.4

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	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485836	Drill Core	50.4	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485837	Drill Core	63.8	0.7	<0.05	<0.005	<1	0.8	<0.5
3485838	Drill Core	40.3	1.4	<0.05	<0.005	<1	0.6	<0.5
3485839	Drill Core	57.5	1.2	<0.05	<0.005	<1	1.1	<0.5
3485840	Rock Pulp	163.0	2.5	0.12	0.206	2	<0.5	0.9
3485841	Drill Core	30.9	0.4	<0.05	<0.005	<1	3.1	<0.5
3485842	Drill Core	49.0	0.6	<0.05	<0.005	<1	1.8	<0.5
3485843	Drill Core	108.1	0.7	0.06	<0.005	<1	0.8	<0.5
3485844	Drill Core	128.9	0.9	<0.05	<0.005	5	1.0	0.6
3485845	Drill Core	69.0	0.7	<0.05	<0.005	<1	0.9	<0.5
3485846	Drill Core	53.7	1.1	0.06	<0.005	<1	<0.5	<0.5
3485847	Drill Core	59.7	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485848	Drill Core	52.0	1.1	<0.05	<0.005	<1	0.7	<0.5
3485849	Drill Core	49.1	1.1	0.06	<0.005	<1	<0.5	<0.5
3485850	Rock	0.4	0.1	<0.05	<0.005	1	1.6	<0.5
3485851	Drill Core	48.2	1.0	0.06	<0.005	<1	1.0	<0.5
3485852	Drill Core	65.9	1.1	0.06	<0.005	<1	0.9	<0.5
3485853	Drill Core	72.5	1.1	0.06	<0.005	<1	<0.5	<0.5
3485854	Drill Core	108.4	1.5	<0.05	<0.005	2	<0.5	<0.5
3485855	Drill Core	104.3	1.4	<0.05	<0.005	<1	<0.5	0.5
3485856	Drill Core	76.9	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485857	Drill Core	50.5	0.9	0.05	<0.005	<1	0.6	<0.5
3485858	Drill Core	68.1	0.7	<0.05	<0.005	1	<0.5	<0.5
3485859	Drill Core	62.9	0.7	<0.05	<0.005	1	<0.5	<0.5
3485860	Rock Pulp	157.1	2.3	0.09	<0.005	2	0.9	0.9
3485861	Drill Core	64.9	1.1	0.06	<0.005	<1	0.6	<0.5
3485862	Drill Core	82.6	0.9	<0.05	<0.005	1	0.6	<0.5
3485863	Drill Core	73.0	2.0	<0.05	<0.005	<1	0.6	<0.5
3485864	Drill Core	72.0	0.6	<0.05	<0.005	2	0.6	<0.5
3485865	Drill Core	46.5	0.8	<0.05	<0.005	<1	<0.5	<0.5

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485866	Drill Core	2.85	0.006	1.0	202.1	4.8	92	0.3	34.6	34.6	1949	6.39	6	0.8	1.7	1164	0.1	1.6	<0.1	276	7.13
3485867	Drill Core	3.66	0.006	1.2	51.7	5.8	107	<0.1	13.0	21.2	1662	5.72	3	0.7	1.4	382	0.1	0.9	<0.1	245	7.33
3485868	Drill Core	3.06	0.010	1.8	177.8	5.6	119	0.2	9.9	30.7	1868	6.55	7	0.7	1.3	831	0.1	3.8	<0.1	270	6.15
3485869	Drill Core	4.29	0.011	1.6	135.5	5.9	121	0.2	7.5	26.0	1692	6.64	6	0.6	1.4	728	<0.1	3.0	<0.1	277	5.28
3485870	Rock	1.47	<0.005	<0.1	1.3	0.4	2	<0.1	1.3	<0.2	83	0.08	<1	0.4	<0.1	85	<0.1	<0.1	<0.1	5	32.64
3485871	Drill Core	4.80	0.009	1.7	179.4	5.7	133	0.2	7.8	30.7	1661	6.59	5	0.6	1.2	662	<0.1	2.9	<0.1	275	5.58
3485872	Drill Core	4.83	0.008	1.7	156.6	5.5	121	0.2	7.6	30.3	1684	6.80	7	0.8	1.7	776	0.1	2.9	<0.1	281	5.97
3485873	Drill Core	2.84	0.011	2.3	163.8	4.9	130	0.2	7.1	33.5	1588	6.66	7	0.7	1.6	802	0.1	2.5	<0.1	280	5.57
3485874	Drill Core	1.34	<0.005	1.3	85.5	3.5	81	0.1	2.6	24.3	1136	5.74	7	1.2	2.4	817	<0.1	1.7	<0.1	245	4.86
3485875	Core DUP		<0.005	1.4	82.7	3.4	80	0.1	2.7	24.2	1123	5.67	6	1.3	2.5	802	<0.1	1.6	<0.1	238	4.78
3485876	Drill Core	3.51	0.007	1.8	133.3	5.7	111	0.2	6.8	24.1	1611	6.37	7	0.8	1.7	783	0.2	3.2	<0.1	274	5.78
3485877	Drill Core	3.58	0.007	2.1	137.4	5.7	113	0.2	7.4	29.4	1455	6.54	7	0.6	1.4	647	<0.1	1.4	<0.1	273	5.36
3485878	Drill Core	4.50	0.006	2.9	153.0	7.0	118	0.2	6.3	28.4	1478	6.47	9	0.8	1.7	861	0.2	2.5	<0.1	267	5.72
3485879	Drill Core	2.31	0.006	15.8	191.4	6.9	153	0.3	6.9	27.6	1811	6.41	6	1.0	1.8	710	0.5	1.4	0.1	259	5.15
3485880	Rock Pulp	0.13	0.211	92.4	2670.8	22.3	81	0.4	61.2	15.3	543	4.20	21	4.5	18.6	293	0.3	2.3	0.7	123	2.52
3485881	Drill Core	3.51	0.019	26.3	1054.5	10.8	175	1.4	6.5	31.3	1677	5.83	7	1.2	1.9	883	1.2	2.5	0.2	240	5.49
3485882	Drill Core	3.34	<0.005	1.4	26.8	7.8	59	<0.1	45.2	18.1	979	4.18	4	1.6	3.4	522	0.1	1.1	<0.1	123	3.16
3485883	Drill Core	2.49	0.006	1.3	96.1	3.8	78	0.1	141.9	46.3	1457	7.13	4	1.0	2.1	649	<0.1	0.9	<0.1	241	6.94
3485884	Drill Core	3.93	0.006	4.1	154.1	5.6	77	0.2	115.9	41.4	1332	6.11	4	1.3	2.4	649	<0.1	0.9	0.1	207	6.11
3485885	Drill Core	3.85	<0.005	2.9	161.0	5.5	98	0.2	6.7	22.0	1619	6.78	5	0.8	1.6	764	<0.1	1.7	<0.1	272	4.81
3485886	Drill Core	3.58	0.006	13.5	153.9	7.1	91	0.2	7.1	29.5	1531	6.76	7	0.8	1.7	885	0.1	2.2	<0.1	270	5.54

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485866	Drill Core	0.187	11.9	78	2.95	1222	0.493	8.07	1.968	2.94	1.8	43.5	22	1.0	18.6	9.0	0.4	1	23	17.7	0.2
3485867	Drill Core	0.129	8.8	17	2.09	974	0.414	7.70	3.080	2.72	2.2	28.1	17	0.6	14.8	5.5	0.3	<1	16	16.3	0.2
3485868	Drill Core	0.152	9.9	7	2.24	1262	0.476	8.71	2.497	2.68	2.1	25.0	18	0.6	17.2	5.5	0.3	1	17	12.2	0.3
3485869	Drill Core	0.142	7.5	4	2.12	1446	0.486	8.39	2.549	2.78	1.1	31.6	15	0.5	15.5	4.5	0.3	<1	16	10.8	0.1
3485870	Rock	0.006	1.2	2	0.94	29	0.026	0.18	0.079	0.02	<0.1	3.4	<1	0.1	2.7	0.6	<0.1	<1	<1	0.9	<0.1
3485871	Drill Core	0.144	9.1	4	2.21	1333	0.451	8.77	2.648	2.77	1.1	30.2	17	0.5	16.0	5.3	0.3	<1	17	12.0	0.1
3485872	Drill Core	0.151	9.4	5	2.28	1187	0.494	8.50	2.514	2.57	1.1	40.2	19	0.8	18.4	6.1	0.3	1	18	13.4	0.1
3485873	Drill Core	0.146	7.9	5	2.16	1188	0.484	8.67	2.688	2.59	0.9	37.3	16	0.7	16.3	6.2	0.3	1	16	12.8	0.3
3485874	Drill Core	0.338	10.2	2	1.54	1441	0.456	8.41	2.749	3.21	0.6	38.7	21	0.7	15.4	6.8	0.4	2	8	13.5	0.2
3485875	Core DUP	0.314	11.4	2	1.54	1432	0.452	8.65	2.648	3.85	0.7	36.5	23	0.8	15.2	6.5	0.3	1	9	12.4	0.2
3485876	Drill Core	0.163	8.5	4	2.16	1380	0.474	8.68	2.725	2.63	0.9	35.2	17	0.8	15.8	5.9	0.3	1	16	13.8	<0.1
3485877	Drill Core	0.168	7.6	5	2.08	1239	0.495	8.39	2.610	2.80	0.8	33.6	16	0.5	16.2	5.7	0.3	<1	16	14.2	0.2
3485878	Drill Core	0.157	9.3	4	2.07	1187	0.470	8.58	2.569	2.79	1.3	33.0	19	0.7	16.4	6.4	0.3	1	16	13.6	0.3
3485879	Drill Core	0.164	9.7	4	2.02	917	0.473	8.33	2.463	3.45	2.7	30.3	19	0.7	16.5	6.1	0.3	1	16	16.1	0.8
3485880	Rock Pulp	0.105	29.2	83	1.44	1008	0.496	7.03	2.051	2.94	4.0	68.5	57	3.3	23.3	17.2	1.2	2	12	29.0	0.3
3485881	Drill Core	0.138	9.7	4	2.22	992	0.418	8.34	2.778	3.05	1.7	22.4	18	0.8	16.1	5.8	0.3	1	15	13.7	1.1
3485882	Drill Core	0.111	11.1	108	2.13	1324	0.207	8.39	2.814	4.55	0.7	25.6	21	0.6	12.0	5.6	0.3	1	11	19.8	0.3
3485883	Drill Core	0.192	9.4	334	6.16	985	0.335	6.06	0.831	3.24	0.6	28.8	17	0.5	10.9	3.0	0.2	<1	29	34.3	<0.1
3485884	Drill Core	0.159	10.0	282	5.05	1124	0.299	6.43	0.996	3.74	0.5	31.0	18	0.6	11.7	4.0	0.2	2	25	31.1	0.3
3485885	Drill Core	0.142	8.3	5	2.27	1201	0.487	8.57	3.073	2.52	1.1	27.2	17	0.7	15.5	6.4	0.4	1	17	19.6	0.2
3485886	Drill Core	0.159	9.5	5	2.20	1200	0.478	8.65	2.729	2.71	0.9	36.5	19	0.7	16.4	6.3	0.3	1	17	14.9	0.2

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

CERTIFICATE OF ANALYSIS VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485866	Drill Core	69.3	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485867	Drill Core	60.3	1.0	<0.05	<0.005	<1	0.6	<0.5
3485868	Drill Core	56.6	1.0	<0.05	<0.005	<1	0.6	<0.5
3485869	Drill Core	44.8	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485870	Rock	0.9	0.1	<0.05	<0.005	<1	6.0	<0.5
3485871	Drill Core	57.4	1.2	0.05	<0.005	<1	<0.5	<0.5
3485872	Drill Core	52.1	1.2	<0.05	<0.005	<1	1.4	<0.5
3485873	Drill Core	39.8	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485874	Drill Core	38.0	1.3	0.05	<0.005	<1	<0.5	<0.5
3485875	Core DUP	47.1	1.2	0.07	<0.005	<1	<0.5	<0.5
3485876	Drill Core	39.4	1.4	0.05	<0.005	<1	1.4	<0.5
3485877	Drill Core	40.8	1.2	<0.05	<0.005	<1	1.0	<0.5
3485878	Drill Core	44.8	1.4	0.07	<0.005	<1	1.1	<0.5
3485879	Drill Core	76.1	1.1	<0.05	0.032	<1	<0.5	<0.5
3485880	Rock Pulp	159.9	2.4	0.07	<0.005	2	0.5	1.0
3485881	Drill Core	59.4	0.9	<0.05	0.012	<1	<0.5	<0.5
3485882	Drill Core	87.2	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485883	Drill Core	109.6	0.8	<0.05	<0.005	<1	1.8	<0.5
3485884	Drill Core	119.3	0.9	<0.05	0.007	<1	1.4	<0.5
3485885	Drill Core	39.5	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485886	Drill Core	41.9	1.2	<0.05	0.016	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3485754	Drill Core	2.66	<0.005	0.2	22.6	11.2	75	<0.1	15.9	12.7	1044	4.28	3	0.7	1.7	963	<0.1	1.0	<0.1	170	3.01
REP 3485754	QC		<0.005																		
3485763	Drill Core	2.09	0.007	0.8	32.4	3.7	24	<0.1	1.8	7.1	368	2.34	4	1.3	3.2	269	<0.1	0.6	<0.1	36	0.40
REP 3485763	QC			0.8	31.6	3.7	24	<0.1	1.7	7.0	373	2.36	4	1.3	3.2	271	<0.1	0.6	<0.1	37	0.40
3485795	Core DUP		0.015	1.9	295.3	4.9	99	0.3	28.1	51.3	2198	7.80	5	0.5	0.9	289	0.4	2.2	0.2	210	4.81
REP 3485795	QC		0.014																		
3485797	Drill Core	4.56	0.022	2.2	250.8	4.8	73	0.3	20.4	34.0	1861	8.04	5	0.5	0.9	393	0.2	2.9	<0.1	376	5.92
REP 3485797	QC			2.2	245.1	4.8	70	0.3	20.1	33.3	1855	7.91	4	0.5	0.9	383	0.2	2.8	<0.1	376	5.86
3485828	Drill Core	4.10	0.008	2.1	83.9	3.4	84	0.2	146.1	37.7	1525	5.56	5	1.0	2.3	339	<0.1	1.2	<0.1	187	5.38
REP 3485828	QC		0.008																		
3485832	Drill Core	4.05	0.035	3.2	122.7	11.4	76	0.3	31.0	21.1	912	3.81	5	0.7	1.7	221	0.2	1.8	<0.1	132	5.24
REP 3485832	QC			3.1	123.8	11.3	75	0.3	31.8	21.5	936	3.89	5	0.7	1.8	216	0.1	1.9	<0.1	133	5.43
3485867	Drill Core	3.66	0.006	1.2	51.7	5.8	107	<0.1	13.0	21.2	1662	5.72	3	0.7	1.4	382	0.1	0.9	<0.1	245	7.33
REP 3485867	QC			1.3	51.3	5.9	108	0.1	13.3	19.3	1621	5.65	4	0.6	1.4	389	0.2	0.8	<0.1	240	7.11
3485870	Rock	1.47	<0.005	<0.1	1.3	0.4	2	<0.1	1.3	<0.2	83	0.08	<1	0.4	<0.1	85	<0.1	<0.1	<0.1	5	32.64
REP 3485870	QC		<0.005																		
Core Reject Duplicates																					
3485778	Drill Core	4.67	0.038	3.3	1254.6	7.2	78	1.0	41.0	80.4	1833	8.74	6	0.6	1.2	629	0.2	3.4	<0.1	178	7.04
DUP 3485778	QC		0.039	3.2	1253.3	7.1	78	1.0	40.8	79.3	1816	8.72	6	0.6	1.2	621	0.2	3.4	<0.1	177	6.98
3485812	Drill Core	3.44	0.005	0.8	38.3	4.4	120	<0.1	107.2	37.4	2215	6.93	6	1.0	1.8	661	<0.1	2.2	<0.1	250	5.74
DUP 3485812	QC		<0.005	0.8	39.1	4.5	122	<0.1	109.1	36.6	2229	6.94	6	0.9	1.9	645	<0.1	2.3	<0.1	243	5.79
3485846	Drill Core	4.66	0.008	1.8	158.0	21.6	126	0.2	6.8	29.2	1637	6.56	6	0.7	1.4	749	<0.1	2.6	<0.1	266	4.85
DUP 3485846	QC		0.009	1.8	149.7	21.0	121	0.2	7.1	28.2	1583	6.41	6	0.6	1.3	729	0.1	2.5	<0.1	264	4.58
Reference Materials																					
STD OREAS25A-4A	Standard			2.4	32.4	24.1	44	<0.1	48.0	8.1	501	6.73	9	2.6	15.2	47	<0.1	0.6	0.4	161	0.27
STD OREAS25A-4A	Standard			2.6	34.7	26.8	49	<0.1	49.6	8.2	499	6.61	10	3.2	17.1	52	<0.1	0.7	0.4	161	0.28
STD OREAS25A-4A	Standard			2.4	33.9	27.8	46	<0.1	49.6	8.2	491	6.53	11	3.1	16.9	50	<0.1	0.6	0.5	159	0.28
STD OREAS25A-4A	Standard			2.4	31.0	23.2	43	<0.1	44.8	7.6	471	6.45	9	2.6	15.1	46	<0.1	0.6	0.3	158	0.27

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3485754	Drill Core	0.136	9.2	33	1.36	1135	0.375	7.74	3.171	4.86	2.0	64.4	20	0.7	11.8	10.2	0.5	2	12	15.8	<0.1
REP 3485754	QC																				
3485763	Drill Core	0.050	13.1	3	0.47	1608	0.212	7.59	3.100	4.66	1.9	59.5	26	0.9	13.9	11.6	0.8	1	4	7.0	<0.1
REP 3485763	QC	0.049	13.2	3	0.47	1598	0.215	7.60	3.126	4.84	1.9	58.7	26	0.9	14.0	11.8	0.8	2	4	7.1	<0.1
3485795	Core DUP	0.106	7.7	66	4.91	90	0.297	6.31	1.380	1.58	0.5	14.5	15	0.5	12.7	1.5	0.1	<1	25	20.2	3.7
REP 3485795	QC																				
3485797	Drill Core	0.090	7.0	55	4.24	312	0.491	6.93	1.700	1.62	1.0	12.2	14	0.7	14.8	2.1	0.1	<1	32	20.7	2.5
REP 3485797	QC	0.089	6.9	55	4.15	291	0.494	6.94	1.705	1.61	1.0	12.4	14	0.8	14.7	2.1	0.1	<1	32	20.3	2.5
3485828	Drill Core	0.168	9.6	256	4.85	1033	0.289	6.51	1.429	3.01	0.8	36.7	18	0.5	11.3	3.7	0.2	2	19	18.1	0.3
REP 3485828	QC																				
3485832	Drill Core	0.124	8.1	64	1.09	265	0.189	5.91	0.535	5.03	4.3	22.0	16	0.5	9.2	3.9	0.2	1	14	10.2	1.0
REP 3485832	QC	0.122	7.8	63	1.10	462	0.201	6.01	0.566	5.41	4.2	22.3	16	0.5	9.2	4.1	0.2	<1	13	9.7	1.0
3485867	Drill Core	0.129	8.8	17	2.09	974	0.414	7.70	3.080	2.72	2.2	28.1	17	0.6	14.8	5.5	0.3	<1	16	16.3	0.2
REP 3485867	QC	0.130	8.8	15	2.06	988	0.413	7.59	3.073	2.71	2.2	29.2	17	0.7	15.2	5.3	0.2	<1	16	14.9	0.2
3485870	Rock	0.006	1.2	2	0.94	29	0.026	0.18	0.079	0.02	<0.1	3.4	<1	0.1	2.7	0.6	<0.1	<1	<1	0.9	<0.1
REP 3485870	QC																				
Core Reject Duplicates																					
3485778	Drill Core	0.100	8.0	69	4.35	88	0.251	7.42	1.726	1.59	0.5	16.3	15	0.7	14.8	3.7	0.2	<1	26	17.6	3.0
DUP 3485778	QC	0.098	7.9	69	4.33	94	0.248	7.38	1.696	1.58	0.5	16.7	15	0.7	14.9	3.6	0.2	<1	25	17.4	3.0
3485812	Drill Core	0.208	9.9	226	5.05	904	0.359	7.06	1.739	1.90	1.4	27.7	19	0.5	12.0	3.0	0.2	2	27	26.4	0.5
DUP 3485812	QC	0.206	10.0	220	5.05	894	0.356	7.04	1.730	1.88	1.4	25.7	19	0.6	11.9	3.0	0.2	2	27	26.1	0.5
3485846	Drill Core	0.150	7.7	5	2.04	1481	0.449	8.31	2.568	3.28	0.9	33.1	17	0.7	15.7	6.0	0.3	<1	15	10.6	<0.1
DUP 3485846	QC	0.144	7.4	5	2.02	1475	0.467	8.20	2.486	3.23	0.7	32.7	16	0.7	15.2	5.8	0.3	<1	14	9.5	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.050	21.6	126	0.34	149	0.866	8.83	0.145	0.50	1.7	157.1	46	3.8	10.1	19.4	1.3	<1	14	40.1	<0.1
STD OREAS25A-4A	Standard	0.050	24.2	117	0.31	162	0.870	8.85	0.137	0.47	1.8	160.9	52	4.3	11.4	20.5	1.4	<1	13	41.2	<0.1
STD OREAS25A-4A	Standard	0.050	22.9	117	0.31	161	0.863	8.71	0.136	0.48	1.7	152.8	50	4.5	10.9	19.7	1.3	1	13	40.7	<0.1
STD OREAS25A-4A	Standard	0.048	21.1	110	0.32	149	0.863	8.56	0.134	0.47	1.7	154.6	47	3.7	10.3	19.5	1.4	<1	13	36.9	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3485754	Drill Core	65.2	1.6	<0.05	<0.005	<1	<0.5	<0.5
REP 3485754	QC							
3485763	Drill Core	97.8	1.4	<0.05	<0.005	<1	<0.5	0.6
REP 3485763	QC	100.8	1.4	<0.05	<0.005	<1	<0.5	0.6
3485795	Core DUP	49.9	0.5	0.14	0.009	5	<0.5	<0.5
REP 3485795	QC							
3485797	Drill Core	50.6	0.5	0.10	<0.005	5	<0.5	<0.5
REP 3485797	QC	49.4	0.5	0.10	<0.005	5	<0.5	<0.5
3485828	Drill Core	64.1	1.2	<0.05	<0.005	<1	<0.5	<0.5
REP 3485828	QC							
3485832	Drill Core	118.9	0.6	<0.05	<0.005	1	<0.5	<0.5
REP 3485832	QC	116.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485867	Drill Core	60.3	1.0	<0.05	<0.005	<1	0.6	<0.5
REP 3485867	QC	60.1	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485870	Rock	0.9	0.1	<0.05	<0.005	<1	6.0	<0.5
REP 3485870	QC							
Core Reject Duplicates								
3485778	Drill Core	41.4	0.7	0.09	0.009	6	<0.5	<0.5
DUP 3485778	QC	41.3	0.6	0.09	0.008	6	<0.5	<0.5
3485812	Drill Core	42.5	0.8	<0.05	<0.005	<1	<0.5	<0.5
DUP 3485812	QC	41.8	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485846	Drill Core	53.7	1.1	0.06	<0.005	<1	<0.5	<0.5
DUP 3485846	QC	53.3	1.0	<0.05	<0.005	<1	0.6	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	60.5	4.1	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	65.3	4.5	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	62.4	4.2	0.11	<0.005	<1	<0.5	<0.5
STD OREAS25A-4A	Standard	59.3	4.0	0.09	<0.005	3	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.4	31.3	23.7	43	<0.1	46.5	7.9	493	6.56	9	2.6	15.1	46	<0.1	0.6	0.3	161	0.29
STD OREAS45E	Standard			2.3	810.4	18.4	45	0.3	480.4	61.2	580	25.05	16	2.3	13.0	17	<0.1	1.0	0.3	339	0.07
STD OREAS45H	Standard			1.6	782.6	13.2	44	0.1	443.0	97.2	400	20.59	18	1.8	7.8	31	<0.1	0.6	0.2	277	0.14
STD OREAS45E	Standard			2.5	805.1	20.0	47	0.3	485.0	65.4	575	25.86	15	2.8	14.3	18	<0.1	1.0	0.3	338	0.07
STD OREAS45H	Standard			1.5	763.5	11.8	39	0.1	433.5	90.0	383	20.13	15	1.6	7.0	28	<0.1	0.6	0.2	269	0.13
STD OREAS45E	Standard			2.3	795.5	17.5	45	0.3	481.3	62.2	585	24.86	15	2.3	13.0	16	<0.1	0.9	0.3	327	0.06
STD OXB130	Standard		0.118																		
STD OXB130	Standard		0.121																		
STD OXG141	Standard		0.889																		
STD OXG141	Standard		0.954																		
STD OXN155	Standard		7.617																		
STD OXN155	Standard		7.882																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	1.0	4.6	2.1	30	<0.1	0.7	3.4	546	1.86	2	1.1	2.7	179	<0.1	0.1	<0.1	29	1.57

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.050	22.0	114	0.34	146	0.893	9.15	0.143	0.49	1.7	150.0	47	3.6	10.2	19.1	1.3	<1	14	40.7	<0.1
STD OREAS45E	Standard	0.034	11.4	1043	0.17	262	0.525	7.08	0.066	0.35	1.0	110.7	24	1.2	8.0	6.1	0.5	<1	96	6.9	<0.1
STD OREAS45H	Standard	0.024	13.5	645	0.24	348	0.848	8.18	0.080	0.20	0.8	129.2	26	2.3	11.3	14.8	0.9	<1	58	14.5	<0.1
STD OREAS45E	Standard	0.036	11.8	1013	0.14	262	0.521	7.09	0.047	0.31	0.9	99.2	25	1.3	8.7	6.2	0.6	<1	89	7.2	<0.1
STD OREAS45H	Standard	0.023	12.8	684	0.26	338	0.829	8.03	0.098	0.21	0.9	125.6	24	1.9	9.7	14.0	1.0	1	58	13.6	<0.1
STD OREAS45E	Standard	0.034	11.0	1070	0.17	248	0.522	6.98	0.067	0.35	1.0	93.3	23	1.1	7.5	5.8	0.5	<1	94	6.6	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.033	10.6	3	0.42	676	0.174	6.51	3.588	1.39	0.3	44.9	21	0.6	13.3	5.1	0.4	<1	5	2.4	<0.1

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Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	61.3	4.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.8	2.9	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	24.8	3.3	0.11	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	22.9	2.9	0.08	<0.005	<1	<0.5	<0.5
STD OREAS45H	Standard	23.0	3.3	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.6	2.7	0.09	<0.005	3	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	3	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	28.1	1.5	<0.05	<0.005	<1	<0.5	<0.5

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
ROCK-VAN	Prep Blank		<0.005	0.9	4.2	2.1	29	<0.1	0.6	3.4	546	1.85	2	0.9	2.3	172	<0.1	0.1	<0.1	29	1.57

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
ROCK-VAN	Prep Blank	0.033	8.9	3	0.42	663	0.173	6.32	3.645	1.38	0.2	44.2	19	0.5	12.2	4.9	0.4	<1	5	2.4	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 17, 2020

QUALITY CONTROL REPORT VAN20001156.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
ROCK-VAN	Prep Blank	25.6	1.5	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 24, 2020
Analysis Start:	July 07, 2020
Report Date:	July 20, 2020
Page:	1 of 9

CERTIFICATE OF ANALYSIS VAN20001190.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_03
P.O. Number	M22165
Number of Samples:	227

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	209	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	6	Split samples by riffle splitter			VAN
PUL85	6	Pulverize to 85% passing 200 mesh			VAN
SLBHP	12	Sort, label and box pulps			VAN
FA430	227	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	227	Environmental disposal charge-Fire assay lead waste			VAN
MA200	227	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346118	Drill Core	2.65	0.013	1.3	164.2	7.7	126	0.2	9.0	22.3	2011	7.19	8	0.6	1.3	577	0.2	1.5	<0.1	276	3.95
3346119	Drill Core	4.49	0.016	1.3	183.0	9.3	127	0.1	8.9	25.3	2247	7.39	12	0.5	1.2	778	<0.1	2.1	<0.1	287	5.48
3346120	Rock Pulp	0.13	0.231	99.4	2714.4	20.5	81	0.4	63.6	16.0	560	4.43	21	5.1	19.0	303	0.2	2.0	0.7	127	2.61
3346121	Drill Core	3.71	0.018	1.2	211.0	9.9	119	0.3	9.0	28.4	2187	7.49	15	0.5	1.1	738	0.1	2.4	<0.1	296	5.47
3346122	Drill Core	3.73	0.017	1.2	128.4	9.8	116	0.2	9.1	24.0	2199	7.31	10	0.5	0.9	649	0.1	2.1	<0.1	277	4.24
3346123	Drill Core	3.62	0.017	1.1	168.7	11.4	104	0.2	8.6	26.5	2230	7.14	12	0.5	0.9	863	0.2	3.5	<0.1	277	5.51
3346124	Drill Core	3.97	0.012	1.3	195.5	8.3	122	0.1	9.2	29.3	1998	7.20	8	0.6	1.1	622	0.2	1.9	<0.1	273	4.21
3346125	Drill Core	4.43	0.013	1.2	185.9	6.8	119	0.2	9.3	25.4	1799	6.98	8	0.6	1.3	650	0.2	1.4	<0.1	273	4.80
3346126	Drill Core	4.46	0.013	0.7	174.5	6.8	109	0.2	9.5	32.9	1766	7.15	7	0.5	1.3	681	<0.1	1.1	<0.1	298	5.78
3346127	Drill Core	4.26	0.016	0.9	198.3	7.5	111	0.2	9.7	35.8	1916	7.35	9	0.7	1.6	874	0.2	1.5	<0.1	313	6.38
3346128	Drill Core	3.90	0.012	1.1	144.9	5.9	109	0.2	9.6	31.9	1719	7.38	7	0.8	1.8	725	0.1	1.4	<0.1	315	5.88
3346129	Drill Core	4.22	0.009	1.2	142.5	5.9	107	0.2	8.8	29.2	1712	6.85	6	0.6	1.4	674	0.1	1.5	<0.1	265	5.03
3346130	Rock	1.63	<0.005	<0.1	0.8	0.6	3	<0.1	<0.1	0.2	126	0.11	2	0.2	<0.1	72	<0.1	<0.1	<0.1	<1	32.20
3346131	Drill Core	3.99	0.008	0.8	113.5	7.3	81	0.1	7.3	22.6	1374	6.01	7	1.0	2.1	810	<0.1	2.4	<0.1	234	4.13
3346132	Drill Core	4.18	0.010	1.5	153.0	6.2	100	0.2	8.1	29.6	1566	6.98	6	0.7	1.5	652	<0.1	1.4	<0.1	265	4.54
3346133	Drill Core	4.22	0.012	1.3	205.0	9.2	106	0.2	7.8	28.9	1725	6.92	8	0.7	1.6	686	<0.1	2.3	<0.1	268	5.02
3346134	Drill Core	4.05	0.017	2.6	209.1	10.4	106	0.3	7.7	30.6	1629	6.71	8	0.7	1.5	649	0.1	1.9	0.1	276	5.30
3346135	Core DUP		0.015	2.5	205.8	10.4	109	0.3	7.5	28.6	1617	6.73	7	0.7	1.6	624	<0.1	1.8	<0.1	273	5.09
3346136	Drill Core	3.83	0.012	1.9	151.4	6.7	105	0.2	7.6	29.9	1550	6.65	5	1.2	2.5	636	<0.1	1.8	<0.1	272	5.91
3346137	Drill Core	4.45	0.012	2.2	146.0	8.4	123	0.2	8.1	28.6	1644	6.95	7	0.9	2.0	646	<0.1	2.1	<0.1	289	5.26
3346138	Drill Core	3.93	0.015	2.4	127.3	7.7	100	0.2	7.7	33.9	1689	6.85	8	0.8	1.5	659	<0.1	2.1	<0.1	298	5.09
3346139	Drill Core	4.38	0.012	2.1	119.4	16.6	87	0.2	6.8	31.0	1731	6.46	8	0.8	1.6	621	<0.1	2.0	0.1	256	6.11
3346140	Rock Pulp	0.11	0.280	9.6	2308.1	7.0	53	0.6	11.8	16.1	644	5.57	14	0.9	1.4	483	0.1	0.7	0.2	233	2.75
3346141	Drill Core	4.95	0.013	1.7	141.7	11.5	93	0.2	7.1	24.4	1774	6.68	8	0.7	1.4	578	<0.1	2.7	<0.1	274	5.57
3346142	Drill Core	2.66	0.018	1.6	151.0	7.9	92	0.2	24.9	37.1	1760	7.06	16	0.8	1.5	558	<0.1	3.7	<0.1	265	5.79
3346143	Drill Core	2.66	0.009	1.9	113.3	16.3	97	0.1	21.1	28.9	1642	6.81	7	0.9	1.6	491	<0.1	2.0	<0.1	256	5.44
3346144	Drill Core	2.76	0.011	1.6	106.7	7.3	107	0.1	7.2	30.3	1874	6.70	9	0.7	1.4	668	<0.1	2.2	<0.1	275	5.25
3346145	Drill Core	4.33	0.017	2.1	153.2	7.4	105	0.2	7.5	31.0	1688	6.84	9	0.7	1.5	624	<0.1	2.3	<0.1	279	5.21
3346146	Drill Core	4.22	0.013	1.5	213.2	5.4	109	0.3	7.9	30.3	1676	6.83	7	0.7	1.5	592	<0.1	1.8	<0.1	271	5.02
3346147	Drill Core	4.56	0.016	2.0	154.0	7.9	110	0.2	8.5	32.9	2142	7.11	8	0.6	1.3	650	0.1	2.5	<0.1	296	5.44

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346118	Drill Core	0.204	9.2	6	2.01	1508	0.500	9.24	2.643	4.07	1.0	28.3	19	0.8	16.0	5.1	0.3	<1	17	14.2	<0.1
3346119	Drill Core	0.218	9.3	6	2.13	1394	0.558	9.11	2.566	2.95	0.9	30.3	19	0.6	16.4	5.3	0.3	<1	18	12.4	<0.1
3346120	Rock Pulp	0.095	33.6	91	1.49	995	0.482	7.79	2.222	3.63	5.1	68.6	67	3.0	22.2	17.3	1.3	3	12	31.5	0.3
3346121	Drill Core	0.227	9.5	6	2.22	1333	0.562	9.31	2.771	2.82	0.9	31.0	20	0.6	16.6	5.3	0.3	<1	19	13.9	<0.1
3346122	Drill Core	0.196	8.1	5	2.05	1951	0.525	9.09	2.696	3.54	1.4	23.9	17	0.6	13.9	4.5	0.2	<1	16	13.8	<0.1
3346123	Drill Core	0.220	8.4	5	1.79	1766	0.488	9.15	2.250	3.77	2.2	22.2	17	0.6	14.9	4.3	0.2	<1	16	12.7	<0.1
3346124	Drill Core	0.182	9.1	5	1.95	1448	0.490	9.17	2.695	3.94	1.1	27.3	19	0.6	15.4	4.8	0.3	<1	17	12.9	<0.1
3346125	Drill Core	0.193	10.1	5	2.16	1198	0.468	9.23	2.719	3.43	0.6	34.0	20	0.6	17.3	5.1	0.3	<1	17	13.1	<0.1
3346126	Drill Core	0.135	8.4	5	2.28	1001	0.483	9.08	2.661	2.70	0.4	34.6	17	0.7	15.3	4.7	0.3	1	19	13.8	<0.1
3346127	Drill Core	0.138	8.4	5	2.40	916	0.507	9.22	2.679	2.28	0.8	36.7	17	0.7	16.1	5.7	0.3	<1	19	13.0	<0.1
3346128	Drill Core	0.167	8.8	6	2.38	1217	0.497	9.26	2.849	2.82	0.5	39.9	19	0.5	16.3	5.4	0.3	<1	19	16.6	<0.1
3346129	Drill Core	0.169	10.0	6	2.05	1440	0.491	8.96	2.878	3.42	0.5	43.8	21	0.7	17.1	5.7	0.3	<1	17	12.9	<0.1
3346130	Rock	0.006	1.1	1	2.86	11	0.005	0.06	0.028	<0.01	<0.1	1.5	<1	<0.1	2.0	0.2	<0.1	<1	<1	1.0	<0.1
3346131	Drill Core	0.164	10.5	4	1.74	1116	0.428	9.37	3.143	3.92	0.8	35.0	22	0.7	15.4	6.5	0.3	1	14	17.5	<0.1
3346132	Drill Core	0.176	9.4	4	2.08	1346	0.473	9.07	2.780	3.66	1.2	39.2	20	0.7	17.2	5.6	0.3	<1	17	13.7	0.1
3346133	Drill Core	0.165	9.2	5	2.25	1358	0.484	9.09	2.710	3.41	1.1	34.1	19	0.8	16.6	6.0	0.3	<1	17	14.5	0.2
3346134	Drill Core	0.153	7.5	4	2.05	1210	0.460	8.16	2.578	2.86	0.8	43.5	17	0.9	16.6	6.8	0.4	<1	15	10.9	0.3
3346135	Core DUP	0.153	8.3	5	2.10	1271	0.486	8.47	2.526	2.89	0.8	40.1	18	0.8	17.3	6.5	0.4	1	16	11.9	0.3
3346136	Drill Core	0.151	10.5	5	2.12	1091	0.465	8.88	2.583	3.27	1.3	48.6	21	0.9	19.2	6.8	0.3	<1	16	10.7	0.2
3346137	Drill Core	0.168	9.1	5	2.19	1021	0.466	8.51	2.758	2.83	1.1	49.7	19	1.0	18.6	7.5	0.4	<1	16	13.6	0.2
3346138	Drill Core	0.169	8.1	5	2.02	1068	0.489	8.45	2.561	3.27	1.3	39.1	18	0.9	17.4	6.1	0.4	<1	15	12.8	0.3
3346139	Drill Core	0.134	9.2	4	2.08	1122	0.453	8.65	2.644	3.52	2.1	45.4	18	0.7	17.9	5.4	0.3	<1	16	11.3	0.3
3346140	Rock Pulp	0.118	7.9	24	1.19	1303	0.330	8.10	3.307	4.88	0.9	37.5	17	2.0	16.9	2.7	0.2	<1	10	10.7	0.3
3346141	Drill Core	0.153	8.0	5	1.98	1210	0.472	8.61	2.487	3.61	1.4	30.4	17	0.7	15.3	4.6	0.3	<1	16	12.2	0.3
3346142	Drill Core	0.176	11.3	65	3.17	627	0.646	8.06	2.587	2.53	1.1	66.7	24	0.9	21.1	7.8	0.5	<1	26	14.5	0.2
3346143	Drill Core	0.180	11.5	64	2.91	1018	0.599	8.11	2.888	2.70	1.4	80.5	24	1.0	20.3	7.3	0.5	2	24	17.0	0.2
3346144	Drill Core	0.156	7.2	5	2.08	1338	0.496	8.60	2.523	3.36	1.3	34.5	15	0.8	15.2	5.2	0.3	<1	16	12.1	0.3
3346145	Drill Core	0.178	7.2	5	2.10	1327	0.496	8.48	2.690	3.23	1.1	36.1	15	0.8	15.5	5.2	0.3	<1	16	11.5	0.4
3346146	Drill Core	0.134	6.1	4	2.09	1280	0.499	8.50	2.810	2.98	0.8	38.5	13	0.7	14.4	5.3	0.3	1	16	11.9	0.1
3346147	Drill Core	0.155	6.7	7	2.13	1276	0.479	7.93	2.342	1.85	1.1	32.8	15	0.8	14.8	5.2	0.3	<1	14	13.8	0.3

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346118	Drill Core	68.0	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346119	Drill Core	44.9	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346120	Rock Pulp	181.4	2.5	0.08	<0.005	1	<0.5	1.0
3346121	Drill Core	50.6	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346122	Drill Core	49.5	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346123	Drill Core	51.6	0.9	0.05	<0.005	<1	<0.5	<0.5
3346124	Drill Core	62.8	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346125	Drill Core	62.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346126	Drill Core	52.1	1.4	<0.05	<0.005	<1	0.7	<0.5
3346127	Drill Core	43.0	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346128	Drill Core	49.0	1.3	0.05	<0.005	<1	<0.5	<0.5
3346129	Drill Core	59.0	1.4	0.05	<0.005	<1	<0.5	<0.5
3346130	Rock	0.2	<0.1	<0.05	<0.005	<1	2.5	<0.5
3346131	Drill Core	57.3	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346132	Drill Core	63.5	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346133	Drill Core	52.3	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346134	Drill Core	36.5	1.5	0.08	<0.005	1	<0.5	<0.5
3346135	Core DUP	43.8	1.4	0.06	<0.005	<1	0.8	<0.5
3346136	Drill Core	61.6	1.5	0.05	<0.005	<1	<0.5	<0.5
3346137	Drill Core	39.7	1.6	<0.05	<0.005	<1	<0.5	<0.5
3346138	Drill Core	42.7	1.3	0.08	<0.005	<1	0.6	<0.5
3346139	Drill Core	69.3	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346140	Rock Pulp	82.2	1.4	0.07	0.041	3	<0.5	<0.5
3346141	Drill Core	57.7	1.1	0.07	<0.005	<1	<0.5	<0.5
3346142	Drill Core	40.8	1.7	0.05	<0.005	<1	<0.5	<0.5
3346143	Drill Core	47.9	2.3	<0.05	<0.005	<1	0.6	<0.5
3346144	Drill Core	51.8	1.2	0.07	<0.005	<1	<0.5	<0.5
3346145	Drill Core	44.7	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346146	Drill Core	44.4	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346147	Drill Core	22.4	1.3	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346148	Drill Core	4.41	0.020	1.9	193.6	9.6	120	0.3	8.1	36.4	2394	6.95	8	0.8	1.4	663	0.1	1.9	<0.1	276	5.25
3346149	Drill Core	3.16	0.021	14.4	358.4	7.3	117	0.5	8.2	27.0	2703	7.26	10	1.2	1.5	393	0.1	2.2	<0.1	353	5.36
3346150	Rock	1.44	<0.005	<0.1	1.8	0.4	3	<0.1	0.3	0.3	138	0.12	3	0.1	<0.1	90	<0.1	<0.1	<0.1	4	31.83
3346151	Drill Core	2.84	0.025	2.2	178.8	8.5	108	0.2	7.2	26.3	2346	6.64	5	0.7	1.6	588	0.3	2.8	<0.1	259	5.20
3346152	Drill Core	3.03	0.014	2.6	72.8	12.4	118	0.1	7.1	30.2	2467	6.72	9	0.9	2.1	720	0.1	3.6	<0.1	263	5.37
3346153	Drill Core	4.01	0.008	0.2	60.5	9.6	113	<0.1	57.5	25.3	2100	7.14	8	0.9	1.7	654	<0.1	2.9	<0.1	264	5.45
3346154	Drill Core	3.46	0.006	3.9	55.9	5.4	26	<0.1	2.8	5.9	610	2.12	4	1.7	3.6	206	<0.1	0.5	<0.1	70	2.58
3346155	Drill Core	3.20	0.008	4.0	27.9	3.9	36	<0.1	3.7	8.4	659	2.75	6	1.6	3.8	206	<0.1	0.7	<0.1	96	2.74
3346156	Drill Core	2.73	0.010	1.6	126.2	7.2	95	0.2	9.1	33.2	1861	6.74	11	0.6	1.4	566	<0.1	2.6	<0.1	273	4.36
3346157	Drill Core	2.68	0.011	1.5	210.3	6.1	88	0.2	7.1	26.6	1816	6.84	9	0.8	1.8	660	<0.1	3.1	<0.1	283	5.28
3346158	Drill Core	4.67	0.015	1.6	186.3	7.7	99	0.2	7.4	28.5	1891	6.84	8	0.9	1.9	673	<0.1	2.6	<0.1	288	4.58
3346159	Drill Core	4.17	0.009	1.5	177.8	5.8	100	0.2	7.3	29.1	1682	6.72	6	0.7	1.6	674	<0.1	2.2	<0.1	277	4.44
3346160	Rock Pulp	0.13	0.663	347.3	5259.4	21.1	76	1.3	34.5	17.9	551	4.79	62	4.1	16.2	356	0.3	3.8	1.5	121	2.60
3346161	Drill Core	4.26	0.076	3.6	199.4	4.9	98	0.2	7.9	26.6	1275	6.27	5	0.6	1.4	372	<0.1	1.3	<0.1	259	3.59
3346162	Drill Core	3.73	0.007	3.8	25.9	2.6	17	<0.1	1.7	6.2	229	1.42	3	1.5	4.0	167	<0.1	0.6	<0.1	35	0.89
3346163	Drill Core	3.87	0.011	0.6	64.1	3.6	79	0.1	116.7	34.1	1293	5.37	3	0.7	1.6	377	<0.1	1.5	<0.1	195	5.83
3346164	Drill Core	4.59	0.011	1.9	193.4	6.6	92	0.2	7.7	26.0	1655	6.59	6	0.7	1.5	863	<0.1	1.8	<0.1	263	5.69
3346165	Drill Core	2.98	0.020	1.9	174.3	9.1	104	0.2	7.3	25.5	1932	6.52	7	0.6	1.3	802	0.1	2.1	<0.1	260	4.90
3346166	Drill Core	3.05	0.008	6.1	8.3	3.8	17	<0.1	0.5	3.1	307	1.82	4	1.5	4.0	165	<0.1	0.6	<0.1	13	0.76
3346167	Drill Core	4.01	0.007	2.9	27.5	3.5	52	<0.1	0.6	10.8	818	3.79	4	0.9	2.1	237	<0.1	1.5	<0.1	119	2.68
3346168	Drill Core	3.81	0.008	1.0	133.7	6.1	82	0.2	12.5	28.9	1802	7.06	5	0.7	1.4	414	<0.1	2.1	<0.1	283	5.93
3346169	Drill Core	3.19	0.011	1.7	160.2	6.6	86	0.2	5.6	24.2	1566	5.90	8	0.6	1.5	641	0.1	1.5	<0.1	241	4.63
3346170	Rock	1.41	<0.005	<0.1	0.8	0.5	3	<0.1	<0.1	0.5	132	0.10	<1	<0.1	<0.1	67	<0.1	<0.1	<0.1	<1	31.01
3346171	Drill Core	3.55	0.021	1.8	145.4	8.1	103	0.3	6.7	31.1	1951	6.27	8	0.6	1.3	582	0.2	1.4	<0.1	274	4.98
3346172	Drill Core	3.51	<0.005	1.4	40.7	7.4	79	<0.1	3.6	21.1	1546	5.67	4	0.7	1.3	435	0.2	1.5	<0.1	160	3.90
3346173	Drill Core	4.56	0.009	3.1	100.8	8.2	63	0.2	4.0	14.2	1643	4.54	5	0.8	1.8	348	<0.1	1.5	<0.1	173	3.69
3346174	Drill Core	3.34	0.009	5.6	9.4	5.8	24	<0.1	0.3	7.6	520	1.94	6	1.3	3.1	180	<0.1	0.7	<0.1	12	1.09
3346175	Core DUP		0.011	5.6	10.0	6.0	27	<0.1	0.3	11.4	557	2.11	7	1.4	3.0	179	<0.1	0.8	<0.1	12	1.22
3346176	Drill Core	4.03	0.007	5.0	12.3	5.9	39	<0.1	1.2	5.9	916	2.67	6	1.0	2.7	190	<0.1	1.2	<0.1	60	2.14
3346177	Drill Core	3.90	0.008	3.1	57.4	14.5	71	<0.1	2.1	8.2	1211	3.28	3	0.9	2.2	239	0.5	1.2	<0.1	95	2.45

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346148	Drill Core	0.173	7.1	5	2.05	1296	0.498	8.04	2.360	2.16	1.6	33.2	16	0.8	16.2	5.3	0.3	<1	14	13.4	0.3
3346149	Drill Core	0.195	9.2	5	1.83	253	0.482	8.25	1.919	3.35	3.0	23.8	20	1.2	17.2	5.0	0.3	<1	15	19.3	1.0
3346150	Rock	0.008	1.2	2	2.51	14	0.016	0.08	0.046	0.01	<0.1	1.8	1	0.1	2.6	0.3	<0.1	<1	<1	1.3	<0.1
3346151	Drill Core	0.154	9.2	5	2.00	1278	0.463	8.47	2.189	3.76	1.6	23.4	19	0.9	16.7	6.6	0.4	1	16	21.1	0.1
3346152	Drill Core	0.169	9.7	5	2.08	1363	0.494	8.66	2.279	3.51	1.6	36.1	21	0.9	18.9	5.8	0.3	<1	16	13.7	0.2
3346153	Drill Core	0.279	8.8	117	3.41	1333	0.487	8.19	1.680	3.67	1.4	27.7	18	0.6	13.8	3.9	0.2	<1	17	22.1	<0.1
3346154	Drill Core	0.052	8.4	6	0.49	1436	0.212	6.89	2.319	4.01	3.4	62.4	17	0.8	11.4	9.9	0.7	<1	4	4.6	0.1
3346155	Drill Core	0.066	7.5	6	0.70	1015	0.273	7.29	3.205	5.19	2.5	57.1	16	1.0	11.6	9.7	0.8	<1	6	5.7	0.3
3346156	Drill Core	0.178	7.2	7	2.18	1060	0.496	8.29	2.987	2.98	1.2	31.8	16	1.0	16.0	5.6	0.3	1	16	13.1	0.3
3346157	Drill Core	0.155	8.4	5	2.20	1106	0.479	8.70	2.949	3.08	1.6	31.5	18	0.9	16.2	5.5	0.3	<1	16	13.4	0.2
3346158	Drill Core	0.153	7.4	5	2.22	1304	0.490	8.45	2.824	3.23	1.2	33.2	16	0.7	15.9	5.0	0.3	<1	17	13.1	0.3
3346159	Drill Core	0.170	7.7	5	2.14	1339	0.472	8.28	2.768	3.31	1.2	33.0	17	0.6	16.6	5.0	0.3	1	16	13.7	0.1
3346160	Rock Pulp	0.107	29.3	69	1.41	572	0.470	7.27	2.114	3.33	3.4	81.2	60	3.8	23.3	19.5	1.4	3	12	28.0	0.8
3346161	Drill Core	0.170	6.1	5	1.90	1140	0.381	7.99	2.663	4.08	3.7	24.4	14	0.6	11.9	4.2	0.2	<1	15	13.3	0.5
3346162	Drill Core	0.036	13.8	3	0.35	912	0.144	7.89	2.721	6.03	1.4	65.3	27	0.9	7.8	10.1	0.7	1	2	2.3	0.6
3346163	Drill Core	0.167	8.2	227	4.25	904	0.221	6.12	1.548	2.30	0.8	13.9	16	0.5	8.2	2.2	0.1	<1	19	23.2	0.1
3346164	Drill Core	0.150	9.2	3	2.37	1104	0.455	8.57	2.538	2.74	0.7	28.3	18	0.7	16.5	5.5	0.3	<1	17	18.9	0.1
3346165	Drill Core	0.142	7.1	4	2.03	1112	0.434	8.50	2.675	3.08	1.3	22.9	15	0.9	13.4	4.7	0.3	1	15	16.2	0.1
3346166	Drill Core	0.035	14.3	2	0.36	1268	0.164	7.84	3.777	4.98	1.4	59.2	29	0.9	10.1	11.4	0.8	<1	2	2.7	0.3
3346167	Drill Core	0.193	7.5	2	0.83	1212	0.203	8.11	3.237	4.22	0.8	33.1	18	0.8	8.1	4.4	0.3	2	5	5.4	0.3
3346168	Drill Core	0.189	8.4	27	2.54	893	0.379	7.37	1.768	3.07	0.8	23.4	17	0.7	12.6	2.8	0.2	1	24	14.5	0.3
3346169	Drill Core	0.161	6.4	3	1.73	1455	0.439	7.90	2.305	2.98	0.5	37.5	14	0.6	13.3	6.0	0.4	<1	13	11.6	<0.1
3346170	Rock	0.006	0.9	<1	2.39	10	0.005	0.07	0.029	0.01	<0.1	1.2	<1	<0.1	1.7	<0.1	<0.1	<1	<1	0.8	<0.1
3346171	Drill Core	0.146	8.0	2	2.12	1321	0.470	8.30	2.270	2.63	0.8	30.4	16	0.7	14.9	5.0	0.3	<1	17	17.7	0.2
3346172	Drill Core	0.258	5.6	7	1.51	945	0.286	7.05	2.361	3.75	0.4	21.8	14	0.6	9.5	3.2	0.2	1	9	15.5	<0.1
3346173	Drill Core	0.099	7.6	2	1.30	1353	0.324	7.59	2.387	4.05	0.9	35.6	17	1.0	10.9	6.4	0.4	1	10	15.8	0.3
3346174	Drill Core	0.027	11.9	2	0.27	440	0.131	7.57	2.554	6.46	0.7	61.2	24	0.8	10.0	10.0	0.7	1	2	3.5	0.8
3346175	Core DUP	0.027	11.9	2	0.29	276	0.135	7.70	2.619	6.34	0.7	64.4	24	0.8	10.3	10.4	0.7	1	2	3.7	0.9
3346176	Drill Core	0.067	10.0	2	0.56	1170	0.176	7.62	2.717	4.88	0.9	55.4	22	0.8	8.7	8.3	0.6	2	4	4.9	0.3
3346177	Drill Core	0.092	8.4	2	0.84	1388	0.223	7.72	3.117	3.99	0.7	49.9	18	0.9	8.7	7.3	0.5	2	6	8.6	0.2

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Project: MAX
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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346148	Drill Core	27.4	1.2	<0.05	<0.005	<1	0.5	<0.5
3346149	Drill Core	74.0	0.9	<0.05	<0.005	3	<0.5	<0.5
3346150	Rock	0.1	<0.1	<0.05	<0.005	<1	4.1	<0.5
3346151	Drill Core	83.9	0.9	0.05	<0.005	<1	<0.5	<0.5
3346152	Drill Core	74.0	1.2	<0.05	<0.005	<1	0.7	<0.5
3346153	Drill Core	63.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346154	Drill Core	74.6	1.7	<0.05	<0.005	1	<0.5	<0.5
3346155	Drill Core	77.9	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346156	Drill Core	43.8	1.1	<0.05	<0.005	<1	1.3	<0.5
3346157	Drill Core	59.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346158	Drill Core	55.5	1.2	<0.05	<0.005	<1	0.6	<0.5
3346159	Drill Core	51.4	1.2	0.05	<0.005	<1	<0.5	<0.5
3346160	Rock Pulp	167.2	2.4	0.08	0.231	4	<0.5	0.9
3346161	Drill Core	65.9	0.8	<0.05	<0.005	<1	0.6	<0.5
3346162	Drill Core	92.7	1.6	<0.05	<0.005	<1	<0.5	0.5
3346163	Drill Core	63.6	0.4	<0.05	<0.005	<1	2.7	<0.5
3346164	Drill Core	67.5	1.0	<0.05	0.005	<1	<0.5	<0.5
3346165	Drill Core	52.6	0.9	<0.05	<0.005	<1	<0.5	<0.5
3346166	Drill Core	99.3	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346167	Drill Core	87.3	0.9	<0.05	<0.005	<1	<0.5	<0.5
3346168	Drill Core	75.9	0.8	<0.05	<0.005	<1	1.0	<0.5
3346169	Drill Core	39.6	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346170	Rock	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346171	Drill Core	58.7	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346172	Drill Core	65.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346173	Drill Core	89.3	0.9	<0.05	<0.005	<1	<0.5	<0.5
3346174	Drill Core	125.5	1.4	<0.05	<0.005	<1	<0.5	0.7
3346175	Core DUP	122.8	1.4	<0.05	<0.005	<1	<0.5	0.7
3346176	Drill Core	107.4	1.3	<0.05	<0.005	<1	<0.5	0.6
3346177	Drill Core	88.1	1.2	<0.05	<0.005	<1	<0.5	0.6

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346178	Drill Core	4.24	<0.005	4.7	7.5	5.8	28	<0.1	0.2	1.4	574	1.78	2	1.5	3.7	228	<0.1	0.7	<0.1	11	0.98
3346179	Drill Core	3.90	0.013	4.2	14.2	6.0	28	<0.1	0.2	1.2	685	1.67	4	1.6	3.7	221	<0.1	0.8	<0.1	11	1.06
3346180	Rock Pulp	0.13	0.231	99.0	2734.9	20.4	75	0.4	63.5	16.0	571	4.30	17	4.5	17.3	300	<0.1	2.0	0.6	127	2.58
3346181	Drill Core	4.14	0.012	4.9	23.0	9.0	35	<0.1	0.1	1.5	665	1.78	7	1.6	3.4	169	<0.1	0.8	<0.1	11	0.96
3346182	Drill Core	4.06	0.009	4.8	39.7	7.4	34	<0.1	0.2	1.7	684	1.78	7	1.5	3.6	195	<0.1	0.8	<0.1	10	0.96
3346183	Drill Core	3.92	0.007	5.1	14.1	4.0	26	<0.1	0.2	1.7	529	1.76	3	1.4	3.9	170	<0.1	0.7	<0.1	10	0.85
3346184	Drill Core	2.90	0.010	1.3	156.1	4.3	103	0.3	7.3	29.4	1850	7.36	10	0.8	1.7	587	<0.1	1.7	<0.1	302	4.83
3346185	Drill Core	2.70	0.008	4.3	43.7	2.9	32	<0.1	1.2	15.9	836	2.25	3	1.0	2.6	139	<0.1	0.8	<0.1	36	2.27
3346186	Drill Core	3.93	0.006	3.3	118.0	6.9	68	0.1	4.9	9.6	1666	4.74	2	0.7	1.4	248	<0.1	1.3	<0.1	177	3.63
3346187	Drill Core	4.11	0.007	2.2	222.4	4.9	66	0.2	5.1	26.3	1654	4.86	3	0.6	1.5	182	0.1	1.9	<0.1	182	4.36
3346188	Drill Core	3.36	0.015	1.1	107.4	6.7	80	0.1	6.0	19.3	1991	5.63	3	0.5	1.2	300	<0.1	2.0	<0.1	228	5.42
3346189	Drill Core	2.56	0.006	3.8	18.8	4.4	23	<0.1	0.3	1.5	539	1.59	2	1.4	3.5	164	<0.1	0.7	<0.1	11	0.71
3346190	Rock	1.55	<0.005	<0.1	0.6	0.4	2	<0.1	<0.1	0.5	139	0.11	1	0.1	<0.1	63	<0.1	<0.1	<0.1	1	30.51
3346191	Drill Core	4.43	0.009	2.6	73.8	3.9	55	<0.1	11.1	17.7	1212	4.41	5	0.7	2.2	260	<0.1	1.2	<0.1	139	3.65
3346192	Drill Core	3.86	0.639	15.7	95.3	3.6	66	0.2	14.4	25.5	1396	5.26	6	0.6	1.6	304	<0.1	1.0	0.2	164	5.20
3346193	Drill Core	4.08	0.052	1.6	219.8	4.5	90	0.3	11.6	30.7	1657	6.59	3	0.3	0.6	317	0.1	1.5	<0.1	316	6.05
3346194	Drill Core	3.64	0.009	0.8	210.7	3.2	80	0.3	13.4	40.4	1780	7.70	6	0.4	0.4	695	<0.1	1.4	<0.1	426	6.46
3346195	Drill Core	4.34	0.006	0.6	97.9	3.3	80	0.1	12.2	32.4	1747	7.24	7	0.2	0.4	797	<0.1	1.3	<0.1	382	6.46
3346196	Drill Core	4.56	0.006	1.1	88.3	4.1	74	0.1	12.6	35.4	1890	7.46	7	0.2	0.4	894	<0.1	1.8	<0.1	373	7.26
3346197	Drill Core	4.57	<0.005	0.8	145.6	3.6	83	0.2	12.7	32.0	1757	7.45	6	0.2	0.4	763	<0.1	1.5	<0.1	339	6.34
3346198	Drill Core	4.77	0.007	1.1	131.7	3.5	75	0.1	13.1	35.7	1742	7.16	6	0.2	0.5	796	<0.1	1.3	<0.1	346	6.71
3346199	Drill Core	4.70	0.007	1.3	107.5	3.7	73	0.2	12.9	37.9	1877	7.15	6	0.3	0.5	690	<0.1	1.2	<0.1	386	7.01
3346200	Rock Pulp	0.11	0.306	9.6	2238.9	6.0	48	0.5	11.3	14.8	681	5.46	15	0.9	1.3	504	0.2	0.7	0.2	232	2.78
3346201	Drill Core	4.58	0.009	1.5	48.7	3.9	75	<0.1	12.8	32.6	1932	6.87	6	0.3	0.5	741	<0.1	1.1	<0.1	357	6.52
3346202	Drill Core	4.82	0.008	1.2	77.0	3.5	76	0.1	12.1	31.2	1840	6.60	6	0.3	0.4	754	<0.1	1.0	<0.1	337	7.13
3346203	Drill Core	4.75	<0.005	0.9	79.4	3.3	71	0.1	12.3	32.1	1561	7.23	4	0.2	0.4	842	<0.1	0.9	<0.1	342	6.97
3346204	Drill Core	4.43	0.006	0.9	62.2	4.3	77	<0.1	11.3	31.9	1597	7.02	6	0.3	0.5	867	<0.1	1.3	<0.1	348	6.79
3346205	Drill Core	4.67	0.006	0.8	93.1	4.1	69	0.1	11.4	27.9	1479	6.94	5	0.2	0.6	844	<0.1	1.3	<0.1	321	6.45
3346206	Drill Core	4.26	0.009	1.2	139.6	4.0	70	0.1	11.2	29.1	1570	7.17	4	0.3	0.5	803	<0.1	1.2	<0.1	328	6.41
3346207	Drill Core	4.33	0.016	2.4	181.6	4.9	86	0.2	10.5	30.0	1645	7.10	6	0.3	0.4	551	<0.1	1.4	0.2	327	6.01

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346178	Drill Core	0.027	14.4	2	0.23	1442	0.139	7.70	3.075	4.72	0.7	71.9	28	0.9	10.4	11.0	0.7	2	2	3.8	0.2
3346179	Drill Core	0.027	14.8	2	0.24	1269	0.140	8.11	3.002	5.33	0.7	79.1	28	0.9	11.0	10.7	0.7	2	2	4.4	0.2
3346180	Rock Pulp	0.097	31.2	83	1.49	1000	0.488	7.18	2.011	3.26	4.1	68.4	63	3.0	22.5	17.3	1.2	3	13	34.0	0.3
3346181	Drill Core	0.025	13.6	2	0.26	349	0.121	7.94	1.084	7.82	0.6	70.3	27	0.9	9.9	8.9	0.6	1	2	4.2	0.6
3346182	Drill Core	0.026	14.3	2	0.25	592	0.135	7.93	2.374	6.31	0.6	66.2	28	0.9	10.4	10.5	0.7	2	2	4.3	0.5
3346183	Drill Core	0.028	14.3	2	0.26	1408	0.131	8.05	3.189	5.61	0.8	62.1	28	0.9	9.7	10.3	0.7	2	2	3.8	0.2
3346184	Drill Core	0.193	10.5	4	2.36	1425	0.534	8.11	2.302	2.78	0.6	38.7	21	0.7	18.6	7.3	0.4	<1	18	20.1	<0.1
3346185	Drill Core	0.040	9.9	2	0.59	637	0.120	6.74	3.002	3.64	0.7	47.3	20	0.8	6.9	6.7	0.5	<1	3	3.4	0.4
3346186	Drill Core	0.110	5.5	4	1.35	1111	0.252	7.24	2.622	3.61	0.7	25.1	13	1.1	7.9	4.6	0.3	2	11	8.4	0.2
3346187	Drill Core	0.114	7.4	3	1.45	1052	0.272	7.28	1.705	3.95	0.7	24.2	16	0.8	9.2	4.7	0.3	1	12	6.6	0.4
3346188	Drill Core	0.126	8.2	3	1.95	798	0.275	7.61	1.874	3.43	0.6	14.6	16	0.6	9.9	3.0	0.2	1	15	6.6	0.2
3346189	Drill Core	0.026	13.8	1	0.26	1562	0.118	7.51	2.768	5.76	0.8	68.5	27	0.8	9.3	9.0	0.6	1	2	2.9	0.3
3346190	Rock	0.007	0.9	1	3.05	10	0.005	0.08	0.030	0.02	<0.1	1.2	<1	<0.1	1.6	<0.1	<0.1	<1	<1	1.2	<0.1
3346191	Drill Core	0.116	8.5	27	1.58	719	0.227	6.58	2.081	3.91	1.3	31.5	20	0.7	8.8	5.1	0.4	1	13	6.8	0.1
3346192	Drill Core	0.121	9.2	31	1.77	159	0.178	6.82	1.114	4.42	3.7	23.4	19	0.6	9.2	2.8	0.2	<1	15	14.5	1.2
3346193	Drill Core	0.168	8.0	12	2.46	692	0.270	7.83	1.478	2.94	1.4	8.3	16	0.4	10.2	1.2	<0.1	<1	19	25.7	0.5
3346194	Drill Core	0.207	8.4	8	2.87	1160	0.546	8.34	2.142	1.53	0.8	12.0	17	0.5	15.2	1.7	<0.1	2	24	17.9	0.7
3346195	Drill Core	0.189	8.7	7	2.86	1069	0.487	8.73	2.291	1.21	0.5	13.6	17	0.4	14.3	1.5	<0.1	<1	21	18.5	0.2
3346196	Drill Core	0.191	9.6	7	2.80	1277	0.519	8.97	2.327	1.12	0.8	13.4	19	0.4	15.2	1.7	0.1	<1	22	15.7	0.5
3346197	Drill Core	0.191	8.9	8	2.98	1157	0.460	8.73	2.374	1.33	0.5	14.5	18	0.4	15.2	1.7	0.1	<1	22	17.1	<0.1
3346198	Drill Core	0.182	9.5	8	2.83	991	0.462	8.73	2.318	1.30	0.6	15.7	19	0.5	15.6	2.3	0.1	<1	21	16.1	0.2
3346199	Drill Core	0.183	9.6	9	2.75	1094	0.488	8.57	2.174	1.59	0.8	15.8	19	0.6	15.7	2.3	0.1	<1	21	14.7	0.4
3346200	Rock Pulp	0.107	7.9	23	1.19	1302	0.329	8.04	2.990	4.48	0.8	39.8	17	1.9	16.3	2.6	0.2	1	10	12.3	0.2
3346201	Drill Core	0.182	9.5	8	2.74	1129	0.534	8.76	2.214	1.81	0.9	18.8	18	0.6	15.4	2.6	0.2	<1	22	16.6	0.6
3346202	Drill Core	0.171	9.2	8	2.73	1018	0.437	8.71	2.185	1.73	0.9	14.3	17	0.5	14.7	1.9	0.1	<1	20	19.2	0.6
3346203	Drill Core	0.177	9.0	8	2.75	1121	0.479	8.68	2.224	1.52	0.3	15.7	18	0.5	14.8	2.1	0.1	<1	21	14.3	0.1
3346204	Drill Core	0.181	8.7	7	2.54	1930	0.503	8.70	2.285	1.77	0.7	17.6	18	0.7	16.7	2.6	0.2	<1	21	13.7	0.2
3346205	Drill Core	0.183	8.2	7	2.45	1516	0.497	8.40	2.339	1.66	0.5	17.5	17	0.5	15.6	2.6	0.1	<1	20	10.4	<0.1
3346206	Drill Core	0.185	8.4	7	2.56	1465	0.498	8.50	2.330	1.77	0.6	16.9	18	0.4	15.9	2.4	0.1	<1	21	11.9	0.2
3346207	Drill Core	0.179	8.7	7	2.56	395	0.455	7.94	2.026	1.71	0.5	15.1	18	0.6	15.4	2.4	0.1	<1	20	15.9	1.2

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346178	Drill Core	117.3	1.6	<0.05	<0.005	<1	<0.5	0.7
3346179	Drill Core	125.8	1.5	<0.05	<0.005	<1	<0.5	0.7
3346180	Rock Pulp	184.1	2.1	0.07	<0.005	1	<0.5	0.9
3346181	Drill Core	179.0	1.7	<0.05	<0.005	<1	<0.5	1.1
3346182	Drill Core	141.0	1.5	<0.05	<0.005	<1	<0.5	0.8
3346183	Drill Core	117.8	1.4	<0.05	<0.005	<1	<0.5	0.6
3346184	Drill Core	57.6	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346185	Drill Core	74.4	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346186	Drill Core	88.4	0.6	<0.05	<0.005	<1	<0.5	0.5
3346187	Drill Core	104.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346188	Drill Core	101.5	0.4	<0.05	<0.005	<1	<0.5	<0.5
3346189	Drill Core	114.3	1.6	<0.05	<0.005	<1	<0.5	0.6
3346190	Rock	0.5	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346191	Drill Core	85.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3346192	Drill Core	84.4	0.5	<0.05	<0.005	1	<0.5	<0.5
3346193	Drill Core	78.6	0.3	<0.05	<0.005	<1	<0.5	<0.5
3346194	Drill Core	40.6	0.5	<0.05	<0.005	1	<0.5	<0.5
3346195	Drill Core	28.8	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346196	Drill Core	27.6	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346197	Drill Core	27.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346198	Drill Core	30.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346199	Drill Core	37.3	0.7	<0.05	<0.005	<1	<0.5	<0.5
3346200	Rock Pulp	88.3	1.2	0.09	0.033	3	<0.5	<0.5
3346201	Drill Core	41.1	0.7	<0.05	<0.005	<1	<0.5	<0.5
3346202	Drill Core	39.0	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346203	Drill Core	31.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346204	Drill Core	33.3	0.7	0.06	<0.005	<1	<0.5	<0.5
3346205	Drill Core	33.4	0.6	0.08	<0.005	<1	0.7	<0.5
3346206	Drill Core	33.1	0.6	0.06	<0.005	<1	<0.5	<0.5
3346207	Drill Core	40.3	0.6	<0.05	<0.005	2	0.7	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346208	Drill Core	5.09	0.022	0.7	406.4	3.8	101	0.3	15.9	37.2	1832	8.25	6	0.2	0.5	756	<0.1	1.6	<0.1	429	7.32
3346209	Drill Core	4.83	0.008	0.7	256.0	3.0	106	0.2	17.3	40.9	1769	8.64	6	0.2	0.5	914	<0.1	1.3	<0.1	471	8.35
3346210	Rock	1.40	<0.005	<0.1	1.8	0.6	4	<0.1	<0.1	0.3	130	0.10	<1	0.2	<0.1	84	<0.1	<0.1	<0.1	1	32.55
3346211	Drill Core	3.58	0.009	0.6	271.3	3.0	120	0.2	18.8	43.9	2311	9.85	7	0.2	0.4	853	0.2	1.6	<0.1	533	8.48
3346212	Drill Core	5.49	<0.005	4.5	14.4	4.7	34	<0.1	1.1	2.7	608	2.03	1	1.7	4.5	246	<0.1	0.5	<0.1	26	1.30
3346213	Drill Core	3.79	<0.005	4.3	33.4	5.4	42	<0.1	1.3	3.5	674	2.23	2	1.7	4.4	299	<0.1	0.7	<0.1	33	1.77
3346214	Drill Core	4.84	0.011	0.6	121.5	4.6	108	0.2	19.8	37.0	2461	9.02	9	0.2	0.5	743	<0.1	2.2	<0.1	373	8.95
3346215	Core DUP		0.009	0.6	92.4	4.2	113	0.1	20.5	34.8	2456	8.91	8	0.2	0.5	773	<0.1	2.3	<0.1	370	8.90
3346216	Drill Core	5.03	0.012	0.7	133.1	2.3	122	0.2	17.1	38.0	2173	8.57	6	0.2	0.5	758	<0.1	1.4	<0.1	371	8.45
3346217	Drill Core	5.34	0.010	0.8	131.5	3.3	128	0.2	13.9	39.4	2514	9.51	9	0.2	0.5	946	0.1	2.6	<0.1	423	9.32
3346218	Drill Core	5.08	0.012	0.5	224.1	3.0	131	0.3	19.5	41.8	2159	8.47	7	0.3	0.6	765	<0.1	1.7	<0.1	365	8.17
3346219	Drill Core	4.63	0.015	1.4	315.2	3.5	116	0.4	16.5	40.1	2340	9.06	9	0.6	0.7	684	<0.1	1.9	<0.1	420	8.48
3346220	Rock Pulp	0.13	0.684	340.2	5113.3	21.7	74	1.4	33.3	16.5	562	4.74	61	4.6	16.6	344	0.4	3.5	1.5	119	2.59
3346221	Drill Core	4.17	0.012	1.0	153.1	4.2	131	0.2	27.1	46.5	2503	8.37	7	0.4	0.7	921	<0.1	3.2	<0.1	428	7.88
3346222	Drill Core	4.27	0.008	4.2	115.5	2.6	30	<0.1	0.8	9.1	586	2.28	2	1.4	3.6	279	<0.1	0.6	<0.1	37	1.98
3346223	Drill Core	3.43	0.005	3.8	43.1	3.4	36	<0.1	1.4	8.6	761	2.60	4	1.7	4.0	322	<0.1	0.9	<0.1	45	2.03
3346224	Drill Core	5.23	0.008	0.5	176.7	5.1	114	0.2	13.9	41.9	2056	8.45	7	0.2	0.4	724	0.1	2.3	<0.1	395	7.99
3346225	Drill Core	4.92	0.013	0.5	226.3	6.9	136	0.3	15.5	46.9	2368	9.88	8	0.2	0.4	773	0.4	2.7	<0.1	560	8.73
3346226	Drill Core	4.44	0.009	0.6	93.7	5.1	116	0.1	12.4	35.1	2076	8.28	7	0.2	0.5	697	<0.1	2.2	<0.1	371	7.71
3346227	Drill Core	5.36	0.009	0.6	133.3	4.7	88	0.2	11.5	37.4	1809	7.68	6	0.3	0.6	768	<0.1	1.7	<0.1	368	7.56
3346228	Drill Core	5.04	0.010	0.5	133.4	4.1	93	0.2	12.6	36.0	1984	8.25	7	0.2	0.3	831	<0.1	1.7	<0.1	363	7.36
3346229	Drill Core	4.80	0.014	0.8	277.4	4.8	95	0.4	11.6	36.0	2102	8.41	7	0.2	0.5	685	0.1	1.5	<0.1	394	7.54
3346230	Rock	1.40	<0.005	<0.1	2.3	0.4	3	<0.1	<0.1	0.8	130	0.23	3	0.2	0.1	82	<0.1	<0.1	0.2	1	33.30
3346231	Drill Core	4.54	0.011	0.9	147.8	5.0	93	0.2	10.6	48.1	1972	7.78	7	0.2	0.5	842	<0.1	1.7	<0.1	344	7.03
3346232	Drill Core	4.15	0.011	1.0	108.3	6.8	98	0.2	10.9	33.9	2177	7.91	11	0.5	0.9	825	<0.1	3.0	<0.1	371	7.72
3346233	Drill Core	5.19	0.014	0.5	248.0	5.4	100	0.4	14.1	49.1	2441	9.36	9	0.4	0.6	809	0.2	2.5	<0.1	463	9.30
3346234	Drill Core	4.67	0.011	0.9	125.9	5.4	100	0.2	11.3	41.1	2234	7.72	9	0.3	0.5	748	<0.1	2.3	<0.1	340	8.45
3346235	Drill Core	4.18	0.028	1.7	207.6	6.9	107	0.3	12.4	41.3	1844	7.53	16	0.6	0.9	458	0.2	1.8	0.2	330	5.78
3346236	Drill Core	4.77	0.014	1.2	133.7	6.4	90	0.2	9.7	30.7	1804	7.19	6	0.5	1.2	791	0.1	2.5	<0.1	326	6.45
3346237	Drill Core	4.61	0.009	0.5	94.0	5.1	93	0.1	12.5	38.8	1992	7.87	9	0.2	0.5	860	<0.1	2.5	<0.1	387	7.81

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PHONE (604) 253-3158

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Project: MAX
Report Date: July 20, 2020

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346208	Drill Core	0.223	9.9	10	2.99	825	0.576	8.54	1.938	1.49	0.3	17.7	21	0.7	18.8	2.0	0.1	<1	24	14.9	0.3
3346209	Drill Core	0.221	9.8	13	3.32	704	0.569	8.43	1.716	1.27	0.3	18.3	20	0.6	19.8	1.5	<0.1	<1	29	13.3	0.1
3346210	Rock	0.007	1.1	1	2.54	14	0.007	0.08	0.024	<0.01	<0.1	1.5	<1	0.1	2.3	0.3	<0.1	<1	<1	1.2	<0.1
3346211	Drill Core	0.221	10.2	14	3.53	653	0.727	7.81	1.620	1.16	0.5	20.5	22	0.7	22.4	1.5	<0.1	<1	32	13.1	<0.1
3346212	Drill Core	0.039	15.9	2	0.38	1639	0.168	7.93	3.554	4.45	0.7	75.6	32	1.0	17.6	10.8	0.8	1	3	3.7	0.2
3346213	Drill Core	0.045	15.3	3	0.42	1659	0.178	8.17	3.451	4.65	0.8	75.8	30	1.2	16.5	10.4	0.7	2	4	4.1	0.2
3346214	Drill Core	0.246	8.6	30	3.65	492	0.634	7.78	1.178	1.36	1.0	17.9	18	0.7	17.2	1.5	<0.1	<1	29	12.0	0.2
3346215	Core DUP	0.244	8.4	30	3.61	477	0.644	7.76	1.207	1.26	0.9	17.9	18	0.6	18.6	1.5	<0.1	<1	30	12.2	0.2
3346216	Drill Core	0.237	8.6	13	3.41	562	0.612	8.18	1.424	1.35	0.7	17.3	18	0.4	17.6	1.4	<0.1	<1	26	14.5	0.2
3346217	Drill Core	0.246	8.5	9	3.37	440	0.755	7.96	1.116	1.21	1.1	20.3	18	0.4	18.1	1.6	<0.1	<1	28	15.4	0.5
3346218	Drill Core	0.234	7.9	33	3.67	639	0.583	8.59	1.207	1.66	0.6	28.0	17	0.5	16.7	1.9	<0.1	1	28	18.0	0.5
3346219	Drill Core	0.223	8.1	20	3.68	677	0.580	8.11	1.209	1.52	1.1	32.8	17	0.6	17.4	1.7	0.1	2	29	21.1	0.8
3346220	Rock Pulp	0.104	32.6	65	1.42	612	0.498	7.35	1.967	3.23	3.8	83.8	65	3.8	24.4	19.1	1.3	3	12	28.2	0.7
3346221	Drill Core	0.192	7.6	70	4.02	727	0.545	8.46	1.438	1.23	0.9	20.2	16	0.6	15.9	2.2	0.1	<1	29	17.6	0.6
3346222	Drill Core	0.057	13.4	2	0.52	1334	0.223	8.45	4.446	3.55	0.7	55.3	29	1.2	16.9	12.1	0.8	<1	3	3.4	0.5
3346223	Drill Core	0.070	15.0	3	0.62	1613	0.245	8.50	4.083	3.95	0.8	52.2	30	1.4	16.5	10.9	0.8	1	4	4.2	0.4
3346224	Drill Core	0.192	6.9	7	3.56	991	0.481	8.77	1.249	1.45	0.6	14.7	15	0.6	14.4	1.5	<0.1	<1	26	15.6	0.5
3346225	Drill Core	0.136	6.4	8	3.69	608	0.666	8.52	1.194	1.04	0.6	17.8	14	0.6	15.8	1.5	<0.1	<1	33	13.4	0.3
3346226	Drill Core	0.207	8.6	7	3.22	700	0.535	8.79	1.904	1.27	0.6	16.9	17	0.6	17.0	2.1	0.1	<1	25	13.5	0.2
3346227	Drill Core	0.188	8.2	7	2.99	682	0.422	8.76	1.964	1.24	0.4	17.4	17	0.5	15.7	2.1	0.1	<1	22	10.5	0.2
3346228	Drill Core	0.197	8.0	8	3.07	704	0.533	8.93	1.866	1.44	0.4	14.1	16	0.5	16.2	1.4	<0.1	<1	23	13.1	0.4
3346229	Drill Core	0.189	8.4	5	2.96	788	0.582	8.74	1.899	1.43	0.8	18.3	17	0.5	17.6	2.3	0.1	<1	25	11.1	0.3
3346230	Rock	0.009	1.2	<1	1.82	31	0.006	0.16	0.057	0.05	0.4	2.0	1	<0.1	2.4	0.4	<0.1	<1	<1	1.1	0.1
3346231	Drill Core	0.192	8.6	5	2.73	730	0.544	8.92	2.273	1.26	0.7	14.0	18	0.4	17.8	2.0	0.1	<1	23	12.9	0.7
3346232	Drill Core	0.156	8.9	7	2.68	882	0.540	8.72	1.841	1.71	1.5	34.2	18	0.6	17.2	2.7	0.2	<1	21	12.9	1.2
3346233	Drill Core	0.224	7.9	9	3.13	443	0.633	7.74	1.425	1.03	1.8	21.3	16	0.5	18.5	1.9	<0.1	2	27	13.7	1.3
3346234	Drill Core	0.208	7.8	5	3.04	513	0.517	8.87	1.696	1.18	1.3	13.5	16	0.4	15.2	1.6	<0.1	<1	23	16.0	1.3
3346235	Drill Core	0.158	6.8	5	2.73	99	0.423	8.14	1.736	2.70	1.8	15.0	15	0.7	15.3	2.9	0.2	2	20	20.0	3.0
3346236	Drill Core	0.151	9.0	5	2.61	1116	0.495	8.74	2.297	1.71	0.8	18.6	17	0.5	15.9	3.6	0.2	2	20	11.8	0.8
3346237	Drill Core	0.167	6.5	7	2.96	533	0.536	8.69	1.872	0.97	0.8	13.8	14	0.4	14.1	1.4	<0.1	<1	22	14.5	0.6

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346208	Drill Core	42.0	0.7	0.10	<0.005	1	<0.5	<0.5
3346209	Drill Core	41.4	0.8	<0.05	<0.005	<1	<0.5	<0.5
3346210	Rock	0.2	<0.1	<0.05	<0.005	1	3.1	<0.5
3346211	Drill Core	43.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3346212	Drill Core	97.6	1.8	<0.05	<0.005	<1	<0.5	<0.5
3346213	Drill Core	89.3	1.8	<0.05	<0.005	<1	<0.5	0.5
3346214	Drill Core	46.2	0.7	0.07	<0.005	<1	1.1	<0.5
3346215	Core DUP	45.9	0.7	0.12	<0.005	<1	<0.5	<0.5
3346216	Drill Core	47.4	0.7	<0.05	<0.005	<1	1.7	<0.5
3346217	Drill Core	47.1	0.7	<0.05	<0.005	<1	<0.5	<0.5
3346218	Drill Core	59.8	0.8	0.06	<0.005	<1	<0.5	<0.5
3346219	Drill Core	55.4	0.6	0.09	0.007	1	<0.5	<0.5
3346220	Rock Pulp	181.6	2.4	0.13	0.195	3	<0.5	0.9
3346221	Drill Core	44.4	0.7	0.11	<0.005	<1	1.3	<0.5
3346222	Drill Core	55.8	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346223	Drill Core	65.1	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346224	Drill Core	39.6	0.7	<0.05	<0.005	<1	<0.5	<0.5
3346225	Drill Core	33.8	0.7	<0.05	<0.005	<1	2.5	<0.5
3346226	Drill Core	42.6	0.6	0.05	<0.005	<1	<0.5	<0.5
3346227	Drill Core	35.0	0.8	0.05	<0.005	<1	0.6	<0.5
3346228	Drill Core	41.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346229	Drill Core	46.7	0.9	<0.05	<0.005	<1	1.1	<0.5
3346230	Rock	1.5	<0.1	<0.05	<0.005	<1	7.0	<0.5
3346231	Drill Core	45.7	0.5	0.06	<0.005	<1	0.5	<0.5
3346232	Drill Core	49.0	1.2	<0.05	<0.005	<1	0.8	<0.5
3346233	Drill Core	36.0	0.7	<0.05	<0.005	<1	0.8	<0.5
3346234	Drill Core	43.3	0.8	0.05	<0.005	<1	<0.5	<0.5
3346235	Drill Core	67.8	0.6	<0.05	0.007	1	0.5	<0.5
3346236	Drill Core	42.4	0.7	<0.05	<0.005	1	1.1	<0.5
3346237	Drill Core	33.8	0.6	<0.05	<0.005	<1	0.8	<0.5

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	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346238	Drill Core	4.22	0.009	0.6	81.4	7.3	109	0.1	14.0	39.5	2199	7.83	9	0.2	0.4	685	<0.1	2.5	<0.1	378	7.01
3346239	Drill Core	4.43	0.010	3.9	31.8	5.6	36	<0.1	0.6	6.3	938	2.55	4	1.3	2.9	274	<0.1	0.9	0.1	45	2.66
3346240	Rock Pulp	0.13	0.235	92.8	2823.5	25.8	80	0.4	59.5	15.6	567	4.41	19	5.0	20.7	294	0.2	2.4	0.9	124	2.60
3346241	Drill Core	4.29	<0.005	3.5	16.1	4.2	30	<0.1	0.3	2.5	689	2.21	2	1.6	3.6	360	<0.1	0.9	<0.1	21	1.62
3346242	Drill Core	4.12	<0.005	3.8	9.1	4.1	23	<0.1	0.4	1.7	582	2.12	2	1.8	4.2	343	<0.1	0.9	<0.1	20	1.44
3346243	Drill Core	2.70	0.013	0.7	238.1	6.6	96	0.3	16.7	37.8	2361	9.54	10	0.3	0.6	665	0.1	2.5	<0.1	496	8.08
3346244	Drill Core	3.48	<0.005	3.5	10.4	4.1	26	<0.1	0.7	2.7	674	2.33	4	1.8	4.4	269	<0.1	0.7	<0.1	25	1.57
3346245	Drill Core	4.40	0.007	3.4	42.3	6.8	36	<0.1	2.0	9.9	824	2.82	6	1.5	3.3	334	<0.1	1.1	<0.1	69	2.35
3346246	Drill Core	4.96	0.021	0.6	257.6	7.1	124	0.3	16.8	49.0	2288	9.50	10	0.4	0.7	784	<0.1	2.1	<0.1	480	7.63
3346247	Drill Core	4.37	0.008	1.6	168.3	6.9	112	0.2	18.4	33.2	2000	7.70	9	0.7	1.3	768	<0.1	2.2	<0.1	340	7.34
3346248	Drill Core	5.00	0.014	0.3	187.6	5.7	91	0.2	15.6	49.5	1907	8.78	10	0.2	0.4	969	0.1	2.8	<0.1	453	8.53
3346249	Drill Core	4.96	0.008	0.5	198.2	6.1	91	0.2	18.9	51.6	1931	9.52	13	0.3	0.4	857	<0.1	2.8	<0.1	468	8.88
3346250	Rock	1.54	<0.005	0.2	0.8	0.5	3	<0.1	<0.1	0.2	136	0.10	<1	0.1	<0.1	83	0.1	<0.1	<0.1	1	33.13
3346251	Drill Core	5.25	0.014	0.3	281.6	7.0	94	0.4	18.7	50.6	1766	9.44	10	0.2	0.4	981	0.2	2.4	<0.1	463	8.83
3346252	Drill Core	4.66	0.019	0.5	440.7	8.4	113	0.5	20.9	53.4	1783	9.62	10	0.1	0.3	971	0.2	2.7	<0.1	499	8.93
3346253	Drill Core	4.99	0.012	0.6	209.2	7.7	102	0.3	20.2	46.2	1793	9.92	9	0.1	0.3	999	0.2	2.6	<0.1	520	8.80
3346254	Drill Core	4.64	0.017	1.0	192.7	10.1	148	0.3	20.9	59.0	2520	10.27	9	0.2	0.3	739	0.1	2.6	<0.1	542	8.89
3346255	Core DUP		0.015	0.8	180.8	9.3	149	0.3	21.3	61.5	2484	10.11	9	0.2	0.2	710	0.2	2.3	<0.1	534	8.72
3346256	Drill Core	4.55	0.019	1.0	282.3	11.4	127	0.6	20.2	51.2	2072	9.49	8	0.2	0.2	655	0.1	1.8	0.2	506	8.98
3346257	Drill Core	2.87	0.014	0.7	288.0	8.9	108	0.4	19.1	42.5	2024	8.57	6	0.2	0.2	460	0.3	2.5	<0.1	477	9.31
3346258	Drill Core	3.04	0.013	0.6	262.8	8.3	161	0.4	18.8	44.5	2458	8.61	5	0.1	0.2	500	0.2	2.0	<0.1	459	8.96
3346259	Drill Core	5.24	0.010	0.5	255.3	6.9	110	0.3	21.2	50.2	1846	9.85	10	0.2	0.3	812	0.2	2.5	<0.1	514	9.52
3346260	Rock Pulp	0.13	0.228	96.0	2843.0	23.1	85	0.4	63.0	16.9	575	4.48	20	4.3	18.5	323	0.4	2.3	0.7	124	2.60
3346261	Drill Core	4.92	0.011	0.5	336.2	5.3	100	0.4	21.1	43.5	1808	10.36	10	0.2	0.5	1066	0.1	2.8	<0.1	513	8.89
3346262	Drill Core	5.05	0.012	0.8	150.5	3.9	96	0.2	18.9	49.8	1718	9.10	8	0.2	0.5	888	<0.1	1.7	<0.1	474	7.82
3346263	Drill Core	4.51	0.009	0.4	259.4	3.7	111	0.3	20.2	45.2	1853	10.11	7	0.2	0.3	673	0.2	1.4	<0.1	524	8.15
3346264	Drill Core	4.99	0.014	0.4	427.1	4.8	110	0.4	20.3	53.3	1777	10.02	6	0.1	0.3	725	0.2	1.8	<0.1	542	9.25
3346265	Drill Core	4.94	0.014	0.6	564.7	5.4	98	0.7	21.4	47.4	1870	10.08	8	0.2	0.4	960	0.2	2.2	<0.1	534	9.58
3346266	Drill Core	4.55	0.013	0.5	239.1	5.1	89	0.3	18.4	44.7	1628	8.41	6	0.3	0.4	835	<0.1	1.7	<0.1	433	9.03
3346267	Drill Core	4.47	0.014	0.4	255.4	5.1	113	0.3	19.1	51.7	1817	9.45	7	0.2	0.4	672	0.1	1.7	<0.1	455	7.84

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346238	Drill Core	0.182	6.9	8	3.04	734	0.513	8.85	1.833	1.31	0.8	12.9	15	0.5	14.6	1.6	<0.1	<1	22	19.3	1.0
3346239	Drill Core	0.050	10.4	1	0.51	282	0.195	7.75	3.223	4.44	0.9	64.2	24	1.1	16.5	11.0	0.8	1	3	4.3	1.0
3346240	Rock Pulp	0.111	31.6	87	1.51	1052	0.494	7.38	2.069	3.36	4.6	69.6	63	3.7	24.2	17.5	1.3	2	13	31.6	0.3
3346241	Drill Core	0.046	14.0	2	0.42	1692	0.183	8.12	3.303	4.40	0.4	64.0	29	1.0	17.7	10.7	0.7	<1	2	5.1	0.3
3346242	Drill Core	0.051	14.6	2	0.39	1612	0.200	8.34	4.078	3.95	0.8	62.4	30	1.1	18.0	11.7	0.9	1	3	2.8	0.1
3346243	Drill Core	0.238	6.9	12	3.54	639	0.717	7.94	1.462	1.48	1.3	16.7	14	0.7	16.2	1.8	<0.1	<1	33	16.3	0.6
3346244	Drill Core	0.057	15.5	2	0.47	1560	0.217	8.46	4.042	4.22	0.7	51.4	31	1.0	18.0	11.2	0.8	2	3	2.4	0.1
3346245	Drill Core	0.083	12.2	3	0.72	635	0.241	7.81	2.895	4.51	0.9	47.6	26	1.0	15.6	9.6	0.7	1	6	5.1	0.7
3346246	Drill Core	0.263	8.7	10	3.47	713	0.603	8.22	1.867	1.13	1.7	27.5	18	0.9	17.1	1.9	0.1	2	28	19.6	1.3
3346247	Drill Core	0.207	9.3	45	3.54	1096	0.526	7.97	2.079	1.43	0.7	44.2	19	0.7	17.4	3.6	0.2	<1	28	12.4	0.6
3346248	Drill Core	0.254	7.0	9	3.62	397	0.547	8.57	1.533	1.02	0.8	15.4	14	0.5	15.2	1.1	<0.1	<1	26	14.1	0.8
3346249	Drill Core	0.294	7.0	14	3.86	380	0.564	8.16	1.001	1.25	0.6	16.7	14	0.4	16.0	1.0	<0.1	<1	28	15.6	0.6
3346250	Rock	0.007	1.2	1	2.55	11	0.005	0.06	0.026	<0.01	<0.1	1.6	<1	<0.1	2.2	0.2	<0.1	<1	<1	1.0	<0.1
3346251	Drill Core	0.156	5.4	11	3.83	366	0.546	8.68	1.091	1.02	0.5	18.3	12	0.4	14.6	1.2	<0.1	<1	30	17.7	0.8
3346252	Drill Core	0.052	3.6	12	3.94	398	0.562	8.52	0.823	1.21	0.4	16.8	8	0.6	12.5	1.1	<0.1	<1	33	18.1	1.0
3346253	Drill Core	0.026	2.8	12	3.79	350	0.563	8.26	0.763	1.33	0.5	15.2	6	0.5	10.5	1.0	<0.1	<1	31	15.8	0.6
3346254	Drill Core	0.034	2.9	11	3.91	486	0.593	7.62	0.635	1.97	1.0	13.5	7	0.7	10.7	1.1	<0.1	<1	32	18.3	1.8
3346255	Core DUP	0.035	2.8	11	3.87	465	0.585	7.59	0.612	1.86	0.9	12.4	6	0.6	10.3	1.0	<0.1	<1	31	20.0	1.8
3346256	Drill Core	0.026	2.6	13	4.08	475	0.531	8.29	0.516	2.28	0.6	14.0	6	0.5	11.2	0.8	<0.1	1	32	19.8	1.8
3346257	Drill Core	0.025	2.5	12	3.39	396	0.469	7.84	0.434	2.55	0.6	11.9	6	0.5	10.4	0.7	<0.1	1	30	18.2	1.0
3346258	Drill Core	0.037	2.8	12	3.65	591	0.500	8.40	0.557	2.75	0.9	11.2	6	0.4	10.4	0.9	<0.1	<1	29	24.7	1.0
3346259	Drill Core	0.074	3.7	15	3.94	338	0.583	8.29	0.741	1.22	0.9	18.5	8	0.5	12.8	1.2	<0.1	<1	31	20.2	0.3
3346260	Rock Pulp	0.109	32.4	86	1.53	1005	0.500	7.33	2.081	3.29	4.5	73.1	65	3.7	25.8	18.2	1.3	3	13	32.4	0.3
3346261	Drill Core	0.126	5.4	12	3.77	321	0.618	8.25	1.141	0.90	0.7	19.5	12	0.5	15.0	1.5	<0.1	<1	31	17.9	0.4
3346262	Drill Core	0.071	5.0	12	3.80	451	0.596	8.03	1.600	1.03	0.6	17.9	11	0.5	14.4	1.9	0.1	<1	33	17.7	0.6
3346263	Drill Core	0.096	5.1	14	3.95	458	0.703	7.90	1.414	1.24	0.6	20.1	11	0.4	15.5	1.4	<0.1	<1	35	19.6	0.4
3346264	Drill Core	0.033	2.8	17	4.27	351	0.625	7.88	0.737	1.21	0.6	15.8	7	0.5	12.5	1.0	<0.1	<1	38	19.8	0.6
3346265	Drill Core	0.039	3.7	13	4.29	331	0.618	7.70	0.759	1.13	0.5	19.6	8	0.6	13.9	1.5	<0.1	1	37	20.4	0.4
3346266	Drill Core	0.029	3.2	11	3.72	448	0.497	8.48	0.940	1.60	0.6	15.8	7	0.5	11.4	1.4	<0.1	1	31	23.4	0.6
3346267	Drill Core	0.031	3.3	12	3.81	534	0.538	8.30	1.124	1.79	1.7	14.2	7	0.4	11.2	1.4	<0.1	<1	29	29.5	1.0

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BUREAU VERITAS
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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346238	Drill Core	39.1	0.6	0.08	<0.005	<1	<0.5	<0.5
3346239	Drill Core	91.1	1.5	0.06	<0.005	<1	<0.5	0.5
3346240	Rock Pulp	172.9	2.2	0.09	<0.005	<1	0.5	1.1
3346241	Drill Core	108.6	1.4	0.06	0.006	1	<0.5	0.5
3346242	Drill Core	90.1	1.5	<0.05	<0.005	2	<0.5	<0.5
3346243	Drill Core	49.7	0.8	0.07	<0.005	<1	0.6	<0.5
3346244	Drill Core	84.6	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346245	Drill Core	90.1	1.2	<0.05	<0.005	<1	<0.5	0.6
3346246	Drill Core	32.1	0.7	0.05	<0.005	<1	0.5	<0.5
3346247	Drill Core	27.6	1.1	0.07	<0.005	<1	1.3	<0.5
3346248	Drill Core	32.8	0.8	0.07	<0.005	<1	0.8	<0.5
3346249	Drill Core	32.3	0.7	<0.05	<0.005	<1	0.9	<0.5
3346250	Rock	0.2	<0.1	<0.05	<0.005	<1	1.7	<0.5
3346251	Drill Core	35.5	0.8	0.08	<0.005	<1	<0.5	<0.5
3346252	Drill Core	36.5	0.7	0.07	0.012	<1	1.0	<0.5
3346253	Drill Core	42.6	0.7	0.05	<0.005	<1	0.6	<0.5
3346254	Drill Core	61.8	0.7	<0.05	<0.005	1	1.4	<0.5
3346255	Core DUP	58.7	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346256	Drill Core	71.0	0.6	<0.05	<0.005	2	0.9	<0.5
3346257	Drill Core	77.6	0.5	0.05	<0.005	<1	<0.5	<0.5
3346258	Drill Core	83.6	0.5	0.08	<0.005	<1	0.7	<0.5
3346259	Drill Core	37.9	0.8	0.07	<0.005	<1	1.0	<0.5
3346260	Rock Pulp	182.8	2.2	0.07	<0.005	<1	<0.5	1.0
3346261	Drill Core	28.3	0.8	<0.05	<0.005	<1	0.7	<0.5
3346262	Drill Core	31.5	0.8	<0.05	<0.005	<1	0.8	<0.5
3346263	Drill Core	40.6	0.9	0.06	<0.005	<1	1.0	<0.5
3346264	Drill Core	40.0	0.8	<0.05	<0.005	<1	<0.5	<0.5
3346265	Drill Core	38.1	1.0	0.08	<0.005	<1	2.1	<0.5
3346266	Drill Core	50.4	0.6	0.07	<0.005	<1	<0.5	<0.5
3346267	Drill Core	41.2	0.6	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346268	Drill Core	4.49	0.020	1.0	335.4	4.8	72	0.4	18.6	53.9	1914	9.77	8	0.4	0.6	1003	0.3	2.6	<0.1	494	10.09
3346269	Drill Core	4.80	0.011	0.6	200.9	6.5	80	0.2	12.6	40.8	1460	8.76	8	0.4	0.7	1040	<0.1	2.9	<0.1	435	8.30
3346270	Rock	1.80	<0.005	<0.1	4.2	1.2	4	<0.1	<0.1	0.5	160	0.15	<1	0.1	<0.1	98	<0.1	<0.1	<0.1	3	34.09
3346271	Drill Core	3.90	0.013	1.2	415.8	6.0	80	0.5	13.2	53.6	1425	8.28	6	0.4	1.4	594	0.2	1.7	<0.1	400	6.70
3346272	Drill Core	4.86	0.021	0.9	318.8	5.5	91	0.4	12.1	39.3	1615	8.64	6	0.3	0.6	568	<0.1	1.5	<0.1	437	7.50
3346273	Drill Core	4.70	0.011	1.0	271.2	5.9	90	0.3	13.0	43.8	1639	8.69	8	0.4	0.8	828	0.1	1.9	<0.1	482	8.23
3346274	Drill Core	3.10	0.010	1.9	123.5	6.8	92	0.1	9.2	24.3	1392	6.03	7	0.8	1.7	565	<0.1	2.4	0.1	271	5.17
3346275	Drill Core	2.86	0.015	5.1	49.5	9.2	54	<0.1	3.4	8.0	750	2.55	10	2.6	4.7	231	0.3	1.3	0.1	86	1.95
3346276	Drill Core	3.27	0.021	10.1	18.2	7.8	81	0.1	4.3	16.5	1480	4.36	13	2.1	3.3	203	0.1	0.9	0.2	176	5.55
3346277	Drill Core	3.03	0.013	0.6	433.3	8.6	110	0.6	14.0	46.4	1743	9.42	9	0.3	0.6	980	0.2	2.8	<0.1	491	7.99
3346278	Drill Core	4.89	0.011	0.5	339.6	7.5	116	0.5	14.1	45.8	1648	8.69	8	0.4	0.5	715	0.2	2.1	<0.1	471	7.77
3346279	Drill Core	5.54	0.018	0.9	489.9	4.8	106	0.6	18.5	61.8	2252	13.12	7	0.4	0.6	694	0.2	2.7	<0.1	728	9.21
3346280	Rock Pulp	0.13	0.695	353.0	5498.5	22.9	82	1.4	35.5	17.9	573	5.02	61	4.9	18.6	354	0.6	3.8	1.7	122	2.65
3346281	Drill Core	5.20	0.010	1.0	142.5	9.2	105	0.2	10.7	38.8	1834	9.57	7	0.7	1.1	722	0.1	2.6	<0.1	500	7.37
3346282	Drill Core	4.01	0.009	4.8	73.3	7.8	36	<0.1	2.7	8.3	660	2.54	8	2.6	4.6	356	0.1	1.1	<0.1	84	2.37
3346283	Drill Core	3.42	<0.005	4.1	21.2	4.8	24	<0.1	2.9	6.1	541	2.42	3	3.0	6.1	306	<0.1	0.9	<0.1	77	1.57
3346284	Drill Core	3.22	0.010	0.8	139.8	9.0	95	0.2	5.8	41.4	1576	9.45	11	0.5	0.7	835	<0.1	2.6	<0.1	407	6.68
3346285	Drill Core	3.46	0.011	0.6	238.4	8.5	119	0.3	18.6	55.8	2265	11.20	8	0.3	0.5	746	0.3	3.3	<0.1	547	8.57
3346286	Drill Core	3.22	0.009	4.8	23.3	4.1	27	<0.1	2.8	7.2	543	2.35	6	2.7	5.5	356	<0.1	0.9	<0.1	78	1.89
3346287	Drill Core	2.96	0.009	4.4	38.8	9.1	35	<0.1	3.2	6.8	529	2.37	8	3.2	6.0	383	0.2	1.3	<0.1	75	1.94
3346288	Drill Core	4.33	0.010	4.0	26.3	6.3	26	<0.1	2.7	7.0	493	2.15	7	3.0	5.7	286	<0.1	1.0	<0.1	71	1.75
3346289	Drill Core	4.20	0.006	4.3	31.1	7.3	29	<0.1	2.9	5.8	586	2.27	7	3.0	5.9	341	<0.1	1.3	<0.1	71	1.94
3346290	Rock	1.46	<0.005	0.2	1.9	0.3	5	<0.1	<0.1	0.3	119	0.10	<1	0.1	0.1	97	<0.1	<0.1	<0.1	1	33.38
3346291	Drill Core	3.95	0.009	4.2	15.8	5.2	32	<0.1	2.7	7.0	538	2.20	6	2.6	5.1	357	<0.1	1.5	<0.1	71	1.99
3346292	Drill Core	4.06	0.008	4.4	23.3	4.7	25	<0.1	2.2	6.7	491	2.12	5	2.6	5.2	315	<0.1	1.4	<0.1	69	1.87
3346293	Drill Core	4.30	0.008	3.7	16.0	5.3	27	<0.1	2.7	7.2	459	2.26	6	3.1	5.9	349	<0.1	1.2	<0.1	71	1.81
3346294	Drill Core	4.30	0.006	3.4	22.5	5.2	25	<0.1	3.0	5.7	503	2.40	5	2.9	5.7	318	<0.1	1.2	<0.1	72	1.86
3346295	Core DUP		0.008	3.7	20.8	5.2	24	<0.1	3.4	6.2	497	2.36	5	3.1	6.0	355	<0.1	1.1	<0.1	71	1.86
3346296	Drill Core	4.34	0.010	3.9	28.8	10.3	30	<0.1	2.9	7.1	615	2.43	8	2.7	5.2	355	0.2	1.1	<0.1	76	2.01
3346297	Drill Core	5.16	0.034	0.9	450.5	8.0	95	0.6	12.6	51.8	1991	8.84	11	0.7	1.2	884	0.2	3.1	0.1	450	8.16

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346268	Drill Core	0.061	5.4	10	3.63	301	0.653	6.91	1.157	0.87	1.5	20.8	11	0.6	16.1	2.2	0.1	2	34	13.5	1.2
3346269	Drill Core	0.088	5.4	8	3.45	408	0.550	8.47	1.704	1.16	0.8	18.6	12	0.6	15.0	2.3	0.1	<1	28	16.6	0.4
3346270	Rock	0.006	1.9	1	2.43	22	0.010	0.09	0.031	0.01	<0.1	1.5	1	0.2	2.6	0.3	<0.1	<1	<1	1.0	<0.1
3346271	Drill Core	0.072	6.8	10	3.26	801	0.524	7.89	2.466	1.78	3.5	19.7	14	0.6	15.9	2.9	0.2	<1	27	20.9	1.0
3346272	Drill Core	0.047	5.0	5	3.28	647	0.541	8.33	1.792	1.78	0.3	17.1	10	0.6	13.0	1.8	<0.1	<1	27	21.8	0.6
3346273	Drill Core	0.042	4.7	5	3.39	582	0.584	8.44	1.285	1.79	0.5	23.1	10	0.6	12.8	2.2	0.2	<1	27	18.0	0.7
3346274	Drill Core	0.050	9.2	3	2.10	847	0.422	8.57	2.618	3.36	1.2	38.4	19	0.8	14.1	6.5	0.4	1	16	15.4	0.9
3346275	Drill Core	0.058	10.9	5	0.92	163	0.209	8.05	1.627	7.69	1.2	76.4	21	1.0	14.7	10.9	0.9	<1	6	2.0	1.0
3346276	Drill Core	0.051	8.4	3	2.11	91	0.200	6.93	1.342	6.65	2.0	52.7	16	0.8	11.2	7.2	0.5	2	7	1.5	2.5
3346277	Drill Core	0.061	4.7	4	3.85	460	0.626	8.75	1.429	1.46	0.6	16.4	10	0.6	12.6	2.1	0.1	<1	31	23.5	0.7
3346278	Drill Core	0.047	4.0	4	3.71	562	0.548	9.17	1.477	1.80	0.6	16.4	9	0.5	11.7	1.9	<0.1	2	28	28.4	0.9
3346279	Drill Core	0.049	4.1	8	4.92	235	0.870	6.23	0.950	0.78	1.0	21.5	9	0.8	15.7	2.0	0.1	<1	43	15.9	0.7
3346280	Rock Pulp	0.112	31.5	67	1.49	337	0.526	7.63	2.128	3.50	3.4	86.4	65	3.5	24.2	20.3	1.4	4	12	28.0	0.8
3346281	Drill Core	0.056	6.4	4	3.22	876	0.641	8.91	1.654	2.47	1.1	24.0	12	0.9	12.8	2.8	0.2	<1	24	21.9	1.0
3346282	Drill Core	0.051	10.0	5	0.72	522	0.219	7.54	2.208	5.96	1.1	80.4	20	0.8	13.6	10.6	0.8	2	6	3.0	0.5
3346283	Drill Core	0.056	14.7	5	0.63	1770	0.209	7.99	3.501	4.52	0.8	75.6	26	0.8	14.3	10.7	0.9	<1	6	2.4	0.1
3346284	Drill Core	0.151	5.3	3	2.72	590	0.656	8.97	2.016	1.66	1.0	15.8	11	0.9	12.9	2.7	0.2	<1	17	20.9	0.5
3346285	Drill Core	0.049	4.2	7	4.52	386	0.653	7.15	1.121	1.04	0.9	22.0	9	0.7	14.7	2.0	0.1	1	38	17.0	0.7
3346286	Drill Core	0.055	13.0	6	0.68	1561	0.224	7.97	3.227	5.16	1.1	80.3	24	0.9	14.2	11.1	0.8	<1	6	2.2	0.4
3346287	Drill Core	0.060	13.9	5	0.68	831	0.215	8.11	2.515	5.83	0.9	76.3	26	1.1	14.5	10.8	0.9	2	6	3.4	0.5
3346288	Drill Core	0.051	12.1	5	0.66	299	0.192	7.63	2.651	5.12	0.8	74.0	22	0.8	13.5	10.3	0.8	2	5	2.3	0.7
3346289	Drill Core	0.058	13.4	5	0.65	2277	0.213	8.05	2.600	5.66	0.9	70.7	24	0.9	13.3	10.5	0.9	1	5	2.5	0.2
3346290	Rock	0.007	1.7	2	2.33	44	0.007	0.10	0.039	0.04	<0.1	1.9	1	0.1	3.7	0.3	<0.1	<1	<1	1.1	<0.1
3346291	Drill Core	0.052	11.4	5	0.70	691	0.203	7.81	2.728	4.86	0.9	78.6	22	0.9	14.2	11.2	0.9	2	5	5.2	0.5
3346292	Drill Core	0.055	10.4	5	0.68	380	0.180	7.28	2.617	4.63	0.7	78.5	21	0.9	13.2	10.0	0.8	1	5	2.0	0.7
3346293	Drill Core	0.058	12.2	5	0.68	317	0.193	7.81	2.904	4.90	1.0	82.8	23	0.9	13.9	10.2	0.9	2	5	2.1	0.6
3346294	Drill Core	0.055	12.2	6	0.64	1831	0.188	7.80	2.753	5.05	0.8	64.2	23	0.9	12.3	9.4	0.8	<1	5	1.9	0.3
3346295	Core DUP	0.054	12.8	6	0.63	1925	0.212	7.83	2.777	5.09	0.8	74.9	23	0.7	13.6	10.8	0.8	1	6	2.5	0.3
3346296	Drill Core	0.052	11.8	5	0.69	1068	0.207	8.02	2.581	5.67	1.1	83.4	24	1.0	14.1	10.8	0.8	2	5	2.5	0.4
3346297	Drill Core	0.083	6.1	7	3.06	667	0.564	9.13	1.658	1.85	1.7	22.3	12	0.8	11.7	3.0	0.2	2	27	15.6	1.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346268	Drill Core	22.6	0.9	0.08	<0.005	<1	<0.5	<0.5
3346269	Drill Core	32.1	0.8	0.06	<0.005	<1	0.9	<0.5
3346270	Rock	0.4	<0.1	<0.05	<0.005	<1	4.8	<0.5
3346271	Drill Core	47.9	0.7	0.06	<0.005	<1	0.7	<0.5
3346272	Drill Core	58.8	0.7	0.07	<0.005	<1	<0.5	<0.5
3346273	Drill Core	55.6	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346274	Drill Core	63.7	1.1	0.07	<0.005	<1	0.8	<0.5
3346275	Drill Core	154.3	2.4	<0.05	<0.005	<1	<0.5	0.9
3346276	Drill Core	129.6	1.6	<0.05	0.033	1	<0.5	0.7
3346277	Drill Core	45.2	0.7	0.09	<0.005	<1	1.6	<0.5
3346278	Drill Core	56.7	0.7	0.05	<0.005	1	<0.5	<0.5
3346279	Drill Core	26.7	1.1	0.10	<0.005	1	<0.5	<0.5
3346280	Rock Pulp	173.5	2.5	0.10	0.239	2	0.7	1.0
3346281	Drill Core	62.5	0.8	0.05	<0.005	<1	<0.5	<0.5
3346282	Drill Core	117.6	2.4	<0.05	<0.005	<1	<0.5	0.6
3346283	Drill Core	93.2	2.3	<0.05	<0.005	<1	<0.5	<0.5
3346284	Drill Core	35.8	0.6	0.11	<0.005	1	1.1	<0.5
3346285	Drill Core	33.9	1.0	<0.05	<0.005	<1	1.8	<0.5
3346286	Drill Core	96.0	2.1	<0.05	0.008	<1	<0.5	<0.5
3346287	Drill Core	123.5	2.3	<0.05	<0.005	<1	<0.5	0.6
3346288	Drill Core	100.4	2.2	<0.05	<0.005	<1	<0.5	0.6
3346289	Drill Core	107.4	2.3	<0.05	<0.005	<1	<0.5	0.6
3346290	Rock	1.1	<0.1	<0.05	<0.005	<1	2.5	<0.5
3346291	Drill Core	113.5	2.0	<0.05	<0.005	<1	<0.5	0.5
3346292	Drill Core	101.3	2.3	<0.05	<0.005	<1	<0.5	0.5
3346293	Drill Core	101.6	2.3	<0.05	<0.005	<1	<0.5	0.6
3346294	Drill Core	94.1	2.2	<0.05	<0.005	<1	<0.5	0.6
3346295	Core DUP	107.2	2.3	<0.05	<0.005	<1	<0.5	0.6
3346296	Drill Core	118.4	2.4	<0.05	<0.005	<1	<0.5	<0.5
3346297	Drill Core	43.8	1.0	0.07	0.007	<1	0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346298	Drill Core	4.80	0.025	1.1	463.8	7.3	99	0.6	13.8	51.3	2067	10.66	13	0.6	1.1	1048	0.2	2.8	<0.1	488	8.90
3346299	Drill Core	4.45	0.011	0.6	415.9	8.8	110	0.6	12.3	43.8	1875	10.14	13	0.3	0.6	951	0.2	2.1	<0.1	476	8.65
3346300	Rock Pulp	0.13	0.222	94.2	2916.9	24.8	88	0.5	61.1	15.4	590	4.64	22	5.8	21.9	332	0.3	2.5	0.8	127	2.68
3346301	Drill Core	4.71	0.012	2.1	262.3	7.3	90	0.3	8.7	46.2	1511	7.97	8	0.4	0.7	970	0.2	1.7	0.2	358	7.19
3346302	Drill Core	4.62	0.011	0.9	265.0	9.4	92	0.4	10.0	47.2	1712	8.01	12	0.4	0.9	1202	0.2	2.3	<0.1	382	7.78
3346303	Drill Core	2.17	0.012	0.9	146.1	8.8	96	0.2	7.7	26.2	1628	6.13	12	0.5	0.8	479	0.2	1.3	0.1	307	6.20
3346304	Drill Core	3.97	0.016	33.4	84.3	6.7	66	0.1	5.3	17.1	1089	4.81	7	4.2	3.1	208	0.1	2.1	0.1	192	3.56
3346305	Drill Core	5.10	0.009	4.7	56.4	4.1	70	0.1	4.9	16.9	1503	5.00	7	2.1	4.1	203	0.2	2.9	<0.1	154	5.29
3346306	Drill Core	3.64	0.012	4.5	44.5	5.7	38	<0.1	2.6	4.9	631	2.35	2	2.5	5.5	235	0.1	1.9	<0.1	72	2.03
3346307	Drill Core	3.99	0.009	4.1	22.8	6.7	34	<0.1	2.5	5.4	700	2.49	8	3.1	6.3	406	0.1	2.4	<0.1	69	1.86
3346308	Drill Core	4.34	0.009	3.6	13.0	7.0	30	<0.1	2.3	6.2	687	2.38	7	3.0	5.6	370	<0.1	2.5	<0.1	70	1.99
3346309	Drill Core	4.43	0.012	3.8	18.4	6.0	30	<0.1	2.5	7.1	680	2.48	6	2.4	4.4	288	0.3	2.1	0.1	72	2.02
3346310	Rock	1.43	0.010	<0.1	10.0	1.0	9	<0.1	0.4	0.2	93	0.09	<1	0.1	<0.1	91	<0.1	<0.1	<0.1	<1	34.32
3346311	Drill Core	4.01	0.007	4.9	21.6	5.4	34	<0.1	3.1	7.6	915	2.61	4	2.4	4.6	312	0.1	1.9	<0.1	83	2.20
3346312	Drill Core	5.15	0.017	1.4	295.9	6.9	116	0.4	13.7	46.6	2174	9.63	7	0.5	0.8	681	0.3	3.1	0.1	485	7.10
3346313	Drill Core	4.63	0.012	1.1	175.1	7.1	85	0.2	10.2	45.8	1690	8.65	9	0.3	0.6	1076	<0.1	3.0	<0.1	393	8.04
3346314	Drill Core	4.40	0.014	0.6	200.9	6.4	92	0.3	11.6	38.3	1764	9.09	9	0.3	0.5	767	0.1	3.0	<0.1	443	7.48
3346315	Drill Core	4.90	0.013	0.5	283.0	7.0	112	0.4	16.2	38.2	1922	10.26	10	0.3	0.5	812	0.2	3.2	<0.1	534	8.46
3346316	Drill Core	4.70	0.016	0.8	220.0	6.6	113	0.4	16.0	41.0	1736	9.25	8	0.4	0.5	822	0.1	2.7	<0.1	474	7.40
3346317	Drill Core	4.71	0.016	0.8	373.0	6.5	82	0.5	15.2	44.5	1550	9.12	7	0.3	0.5	915	0.2	2.6	<0.1	483	8.14
3346318	Drill Core	4.84	0.018	0.5	446.4	6.4	105	0.6	19.2	44.5	1806	10.04	6	0.4	0.4	812	0.2	2.9	<0.1	540	7.94
3346319	Drill Core	4.33	0.031	0.6	472.5	7.2	94	0.6	16.6	43.8	1838	9.66	9	0.2	0.5	1031	<0.1	4.2	<0.1	492	9.07
3346320	Rock Pulp	0.13	0.222	99.4	2879.0	25.4	86	0.4	68.0	16.8	593	4.60	20	4.9	18.6	325	0.3	2.3	0.8	128	2.67
3346321	Drill Core	5.30	0.014	0.4	382.9	7.5	100	0.5	13.2	46.5	1766	9.08	7	0.3	0.5	780	0.2	3.3	<0.1	482	8.76
3346322	Drill Core	3.96	0.017	0.8	407.8	8.2	101	0.5	13.5	43.2	1764	9.04	6	0.5	0.9	760	0.2	2.7	<0.1	480	8.23
3346323	Drill Core	4.59	0.017	0.6	389.6	7.4	97	0.5	12.3	45.4	1741	9.16	7	0.3	0.7	925	<0.1	2.8	<0.1	505	8.53
3346324	Drill Core	3.11	0.017	1.0	350.5	6.8	98	0.5	12.0	44.6	1729	8.22	7	0.3	0.7	900	0.2	2.8	<0.1	485	7.54
3346325	Drill Core	5.86	0.012	1.2	162.0	6.1	80	0.2	9.9	40.2	1435	7.52	7	0.3	0.6	850	0.2	1.8	<0.1	442	6.61
3346326	Drill Core	4.11	0.010	0.6	229.3	8.3	88	0.3	9.7	39.8	1332	7.78	9	0.3	0.7	1064	0.1	2.1	<0.1	431	7.44
3346327	Drill Core	4.39	0.007	0.8	174.0	9.2	111	0.3	11.2	37.3	1510	8.30	9	0.4	0.8	1034	0.2	2.5	<0.1	472	7.57

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346298	Drill Core	0.138	7.1	7	3.54	482	0.669	8.57	1.388	1.21	1.3	22.1	15	0.8	15.8	2.8	0.2	<1	30	13.7	0.8
3346299	Drill Core	0.152	5.7	7	3.86	570	0.604	8.50	1.206	1.29	0.6	21.4	12	0.6	14.2	2.2	0.1	<1	29	16.2	0.3
3346300	Rock Pulp	0.106	31.5	84	1.58	1138	0.514	7.70	2.144	3.51	4.9	76.8	65	3.5	24.5	18.0	1.4	4	13	35.6	0.4
3346301	Drill Core	0.169	6.7	7	3.15	885	0.471	9.07	1.934	1.66	0.6	15.2	14	0.7	14.8	2.8	0.1	<1	23	16.2	1.2
3346302	Drill Core	0.209	7.9	8	3.14	723	0.505	9.06	1.698	1.89	0.5	18.1	17	0.6	15.7	2.9	0.2	<1	24	16.2	0.7
3346303	Drill Core	0.160	6.5	7	2.35	827	0.368	9.21	2.154	3.93	0.8	9.5	14	0.5	11.9	2.3	0.1	3	16	24.2	1.2
3346304	Drill Core	0.091	6.1	5	1.53	262	0.213	7.77	1.756	3.90	1.8	74.8	14	0.6	9.2	4.8	0.4	1	10	19.0	1.1
3346305	Drill Core	0.051	7.9	5	1.26	608	0.169	7.57	1.010	3.98	2.0	70.5	16	0.8	10.4	5.6	0.5	2	10	14.0	1.0
3346306	Drill Core	0.055	10.5	4	0.61	1243	0.165	7.88	2.826	4.18	1.2	88.0	21	0.9	10.4	8.6	0.8	2	5	8.2	0.2
3346307	Drill Core	0.059	13.0	5	0.60	1958	0.183	7.91	2.711	4.65	0.7	75.3	24	0.9	13.4	9.3	0.8	2	5	7.6	0.3
3346308	Drill Core	0.054	11.6	4	0.66	425	0.172	7.68	2.517	4.91	0.8	69.6	23	0.9	13.0	8.9	0.8	1	5	4.5	0.5
3346309	Drill Core	0.049	10.1	4	0.67	291	0.177	7.39	2.577	4.52	0.8	70.4	21	1.0	13.7	9.7	0.7	1	5	4.8	0.7
3346310	Rock	0.007	1.2	1	1.39	23	0.005	0.06	0.026	0.01	<0.1	1.4	<1	0.2	2.3	0.6	<0.1	<1	<1	1.3	<0.1
3346311	Drill Core	0.050	10.2	5	0.83	1256	0.218	7.49	3.039	4.62	1.0	77.1	21	0.9	14.0	11.5	0.9	2	5	3.5	0.4
3346312	Drill Core	0.087	5.3	6	3.56	649	0.612	7.68	1.437	1.49	1.5	19.7	12	0.7	14.2	2.4	0.1	<1	28	18.6	1.6
3346313	Drill Core	0.170	5.3	5	3.53	445	0.547	8.66	1.574	1.01	0.8	14.8	12	0.5	14.7	1.9	0.1	<1	23	17.1	0.7
3346314	Drill Core	0.200	5.6	6	3.55	674	0.581	8.71	1.701	1.51	1.2	24.6	13	0.6	14.9	1.9	0.1	<1	22	22.2	0.7
3346315	Drill Core	0.089	4.8	10	4.03	398	0.638	7.78	1.412	1.11	0.9	18.5	11	0.7	15.2	2.0	0.1	1	33	17.9	0.5
3346316	Drill Core	0.106	4.7	11	3.80	540	0.591	8.17	1.524	1.43	0.9	16.2	12	0.7	14.6	2.2	0.1	<1	30	21.9	0.7
3346317	Drill Core	0.072	4.4	10	3.77	375	0.593	8.32	1.363	1.11	0.7	16.6	10	0.5	13.5	1.9	0.1	<1	30	15.9	0.4
3346318	Drill Core	0.057	3.8	11	3.90	457	0.692	8.14	1.354	1.17	1.3	16.4	9	0.8	13.3	1.8	<0.1	<1	35	18.8	0.8
3346319	Drill Core	0.062	3.9	10	3.98	302	0.641	8.36	1.109	0.81	0.8	18.8	9	0.6	13.3	1.9	0.1	<1	31	15.0	0.3
3346320	Rock Pulp	0.114	30.0	87	1.58	1028	0.509	7.54	2.132	3.48	4.3	73.9	65	3.8	25.7	19.0	1.5	2	13	32.6	0.4
3346321	Drill Core	0.051	3.6	10	4.11	299	0.572	7.99	1.488	0.74	1.1	18.3	9	0.6	12.1	1.7	0.1	1	33	13.0	0.3
3346322	Drill Core	0.060	4.2	10	4.01	488	0.561	8.63	1.371	1.36	0.8	24.7	10	0.7	12.7	2.0	0.1	<1	31	19.1	0.3
3346323	Drill Core	0.065	4.4	10	3.95	385	0.567	8.75	1.424	0.91	1.0	19.1	10	0.6	13.5	2.0	0.1	1	30	15.9	0.5
3346324	Drill Core	0.070	4.9	7	3.74	465	0.531	8.94	1.888	1.06	1.0	18.2	11	0.6	14.2	2.5	0.1	<1	27	18.3	1.3
3346325	Drill Core	0.130	5.5	6	3.52	554	0.488	9.20	2.498	1.25	0.8	14.5	12	0.6	13.6	2.3	0.1	<1	24	17.6	2.0
3346326	Drill Core	0.239	6.4	6	3.29	703	0.494	9.13	1.785	1.34	0.5	16.3	15	0.5	15.5	2.7	0.1	<1	22	15.9	0.3
3346327	Drill Core	0.217	7.1	7	3.57	684	0.529	9.09	1.967	1.18	0.4	18.7	17	0.5	16.6	2.7	0.2	<1	23	17.4	0.6

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346298	Drill Core	36.6	0.9	0.07	<0.005	<1	<0.5	<0.5
3346299	Drill Core	41.4	0.9	0.05	<0.005	<1	1.1	<0.5
3346300	Rock Pulp	188.8	2.3	0.06	0.006	<1	<0.5	0.9
3346301	Drill Core	45.5	0.6	0.06	0.007	1	<0.5	<0.5
3346302	Drill Core	55.6	0.7	0.08	0.006	<1	<0.5	<0.5
3346303	Drill Core	114.8	0.3	0.07	<0.005	1	0.7	0.5
3346304	Drill Core	94.3	2.0	0.05	0.148	<1	<0.5	<0.5
3346305	Drill Core	124.0	1.8	0.08	0.007	<1	<0.5	<0.5
3346306	Drill Core	102.1	2.4	<0.05	<0.005	<1	<0.5	<0.5
3346307	Drill Core	109.8	2.2	<0.05	<0.005	<1	<0.5	0.6
3346308	Drill Core	109.9	2.0	<0.05	<0.005	<1	<0.5	0.6
3346309	Drill Core	97.6	1.8	<0.05	<0.005	<1	<0.5	<0.5
3346310	Rock	0.2	<0.1	<0.05	<0.005	2	2.4	<0.5
3346311	Drill Core	95.2	2.1	<0.05	<0.005	2	<0.5	<0.5
3346312	Drill Core	45.7	0.7	0.06	<0.005	<1	0.6	<0.5
3346313	Drill Core	31.7	0.7	0.06	<0.005	<1	1.8	<0.5
3346314	Drill Core	42.3	0.6	0.05	<0.005	<1	1.0	<0.5
3346315	Drill Core	37.3	0.9	0.07	<0.005	1	<0.5	<0.5
3346316	Drill Core	38.8	0.8	0.08	<0.005	<1	<0.5	<0.5
3346317	Drill Core	33.9	0.8	0.05	<0.005	1	0.9	<0.5
3346318	Drill Core	38.5	0.9	<0.05	<0.005	3	<0.5	<0.5
3346319	Drill Core	28.2	0.8	0.09	<0.005	<1	1.3	<0.5
3346320	Rock Pulp	184.8	2.8	0.07	<0.005	1	0.8	1.1
3346321	Drill Core	23.1	0.8	0.11	0.012	<1	0.8	<0.5
3346322	Drill Core	43.2	1.0	0.06	<0.005	<1	1.2	<0.5
3346323	Drill Core	29.9	0.8	0.06	<0.005	<1	0.6	<0.5
3346324	Drill Core	28.2	0.9	<0.05	0.118	2	0.7	<0.5
3346325	Drill Core	33.9	0.7	<0.05	0.046	2	1.3	<0.5
3346326	Drill Core	26.7	0.8	0.07	<0.005	<1	1.0	<0.5
3346327	Drill Core	29.0	0.9	0.09	0.008	<1	1.4	<0.5

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346328	Drill Core	4.92	<0.005	0.6	126.8	10.1	93	0.2	11.6	38.3	1367	7.62	10	0.3	0.7	1100	0.3	2.4	<0.1	431	7.06
3346329	Drill Core	4.54	0.006	1.9	128.8	12.9	97	0.3	9.8	33.6	1391	7.52	11	0.4	0.7	989	0.3	2.0	0.1	390	6.80
3346330	Rock	1.42	<0.005	<0.1	4.5	0.5	5	<0.1	0.1	0.3	112	0.09	8	0.2	<0.1	98	<0.1	<0.1	<0.1	<1	35.30
3346331	Drill Core	4.25	0.011	1.1	120.7	8.7	77	0.3	10.0	29.0	1596	7.13	11	0.3	0.6	1027	0.3	2.4	<0.1	406	7.34
3346332	Drill Core	4.56	0.012	0.8	147.3	6.7	98	0.3	10.6	36.0	1875	7.94	12	0.3	0.6	933	0.1	2.3	<0.1	404	7.27
3346333	Drill Core	4.75	0.012	1.0	227.4	6.7	97	0.4	13.5	41.0	1954	8.28	10	0.3	0.6	1056	0.1	2.1	<0.1	422	7.87
3346334	Drill Core	4.89	0.015	1.0	312.6	7.0	108	0.5	11.8	36.9	2007	8.25	10	0.3	0.6	878	0.2	2.2	<0.1	372	7.67
3346335	Core DUP		0.022	1.0	299.4	6.9	101	0.5	11.6	34.3	1980	8.18	12	0.3	0.5	841	0.2	2.1	<0.1	370	7.60
3346336	Drill Core	4.77	0.085	3.0	309.6	5.9	83	0.4	13.8	37.3	1590	8.36	8	0.3	0.6	867	0.1	1.7	<0.1	413	7.35
3346337	Drill Core	4.71	0.014	1.4	363.7	6.3	77	0.4	13.9	46.5	1341	8.91	6	0.3	0.8	1011	0.2	1.8	<0.1	410	7.54
3346338	Drill Core	4.56	0.016	1.4	471.7	5.6	100	0.6	16.7	46.2	1696	9.98	8	0.3	0.8	729	0.3	1.9	<0.1	477	8.20
3346339	Drill Core	4.71	0.024	1.0	844.6	6.6	102	1.0	24.0	51.6	1833	11.60	6	0.3	0.7	721	0.4	2.0	<0.1	588	9.30
3346340	Rock Pulp	0.13	0.681	341.5	5307.2	21.6	76	1.4	34.1	19.3	568	4.94	65	4.9	16.9	373	0.6	3.9	1.7	118	2.62
3346341	Drill Core	5.13	0.021	0.5	482.8	4.4	93	0.6	24.5	54.1	1639	10.19	5	0.2	0.4	729	0.2	1.6	<0.1	549	9.13
3346342	Drill Core	5.04	0.010	0.7	313.7	3.9	91	0.4	26.1	52.3	1972	12.19	7	0.2	0.4	584	0.1	2.2	<0.1	663	10.68
3346343	Drill Core	4.71	0.014	0.6	201.2	3.5	101	0.2	22.0	58.1	1506	9.40	8	<0.1	0.2	798	0.2	1.3	<0.1	502	9.45
3346344	Drill Core	4.82	0.013	0.6	128.7	3.2	83	0.1	26.4	47.5	1577	9.98	5	0.1	0.2	557	<0.1	1.3	<0.1	541	8.96

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CERTIFICATE OF ANALYSIS VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346328	Drill Core	0.203	6.6	8	3.34	715	0.630	9.08	2.393	1.07	0.4	17.3	16	0.6	15.2	2.6	0.1	<1	23	17.3	0.6
3346329	Drill Core	0.242	7.3	7	3.14	772	0.586	8.77	2.365	1.33	0.6	15.8	16	0.5	14.9	3.0	0.1	<1	21	15.5	0.7
3346330	Rock	0.007	1.4	1	1.69	27	0.006	0.10	0.049	0.02	<0.1	2.5	1	0.1	2.8	0.3	<0.1	<1	<1	1.1	<0.1
3346331	Drill Core	0.208	7.3	7	3.10	684	0.551	8.17	2.092	1.84	0.7	13.5	16	0.7	16.1	2.1	0.1	<1	22	18.1	0.9
3346332	Drill Core	0.221	6.9	7	3.38	645	0.639	8.78	2.287	1.33	0.8	14.1	16	0.5	16.2	2.2	0.1	<1	23	21.3	1.0
3346333	Drill Core	0.179	6.8	9	3.44	577	0.618	8.44	1.739	1.05	0.7	16.5	15	0.5	16.1	1.9	<0.1	<1	27	16.8	0.6
3346334	Drill Core	0.160	6.8	10	3.23	747	0.579	8.68	1.930	1.31	0.8	18.3	15	0.6	15.7	2.2	0.1	<1	25	21.5	0.8
3346335	Core DUP	0.170	6.7	9	3.20	734	0.574	8.57	1.884	1.29	0.7	14.4	15	0.5	15.2	2.2	0.1	<1	26	21.0	0.8
3346336	Drill Core	0.139	6.7	11	3.47	784	0.638	8.10	1.912	1.10	0.6	15.6	14	0.6	15.1	2.4	0.1	<1	28	15.3	0.5
3346337	Drill Core	0.249	9.3	10	3.42	768	0.523	8.48	2.130	1.04	0.3	17.0	20	0.7	19.2	2.9	0.1	<1	26	14.9	0.2
3346338	Drill Core	0.255	8.6	12	3.76	601	0.616	7.34	1.762	0.82	0.7	20.6	19	0.9	20.1	3.0	0.2	<1	33	16.6	0.5
3346339	Drill Core	0.067	4.6	17	4.14	304	0.746	6.36	1.113	0.57	0.6	23.1	11	0.8	17.0	2.6	0.1	<1	41	12.6	0.5
3346340	Rock Pulp	0.113	33.1	65	1.48	332	0.509	7.56	2.101	3.45	3.9	88.5	68	4.0	26.0	20.8	1.6	3	12	29.6	0.8
3346341	Drill Core	0.041	3.4	13	4.28	403	0.648	7.68	0.931	1.08	0.5	20.4	8	0.7	12.7	1.4	<0.1	<1	39	18.5	0.5
3346342	Drill Core	0.036	3.4	22	5.38	132	0.775	5.55	0.537	0.38	0.6	23.9	9	0.7	15.7	1.4	<0.1	<1	51	16.8	0.3
3346343	Drill Core	0.021	2.5	12	4.31	343	0.525	8.56	0.728	1.13	0.2	16.3	6	0.6	11.3	0.9	<0.1	<1	36	26.8	0.2
3346344	Drill Core	0.025	2.4	38	4.62	234	0.576	6.98	0.770	0.75	0.3	17.5	6	0.5	10.6	0.8	<0.1	<1	38	20.3	0.3

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346328	Drill Core	24.0	0.8	<0.05	0.007	<1	0.6	<0.5
3346329	Drill Core	36.6	0.7	<0.05	0.008	1	<0.5	<0.5
3346330	Rock	0.4	<0.1	<0.05	<0.005	2	1.5	<0.5
3346331	Drill Core	60.2	0.6	0.07	0.159	2	0.6	<0.5
3346332	Drill Core	41.4	0.6	0.08	0.005	2	<0.5	<0.5
3346333	Drill Core	35.8	0.7	0.09	<0.005	<1	<0.5	<0.5
3346334	Drill Core	44.1	0.8	0.07	<0.005	<1	<0.5	<0.5
3346335	Core DUP	40.4	0.7	0.08	<0.005	<1	3.7	<0.5
3346336	Drill Core	32.7	0.7	0.09	<0.005	<1	0.7	<0.5
3346337	Drill Core	29.2	0.8	0.10	<0.005	<1	1.3	<0.5
3346338	Drill Core	23.4	1.0	0.06	0.005	1	0.9	<0.5
3346339	Drill Core	18.8	1.0	0.12	<0.005	2	<0.5	<0.5
3346340	Rock Pulp	186.0	2.8	0.06	0.245	4	<0.5	0.9
3346341	Drill Core	34.3	0.9	0.08	<0.005	2	2.2	<0.5
3346342	Drill Core	12.0	1.1	0.08	<0.005	<1	1.8	<0.5
3346343	Drill Core	38.2	0.7	<0.05	<0.005	<1	2.3	<0.5
3346344	Drill Core	22.0	0.7	0.05	<0.005	<1	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3346118	Drill Core	2.65	0.013	1.3	164.2	7.7	126	0.2	9.0	22.3	2011	7.19	8	0.6	1.3	577	0.2	1.5	<0.1	276	3.95
REP 3346118	QC			1.1	159.2	7.7	130	0.2	8.2	22.2	1983	7.05	8	0.6	1.3	565	<0.1	1.4	<0.1	267	3.90
3346123	Drill Core	3.62	0.017	1.1	168.7	11.4	104	0.2	8.6	26.5	2230	7.14	12	0.5	0.9	863	0.2	3.5	<0.1	277	5.51
REP 3346123	QC		0.016																		
3346152	Drill Core	3.03	0.014	2.6	72.8	12.4	118	0.1	7.1	30.2	2467	6.72	9	0.9	2.1	720	0.1	3.6	<0.1	263	5.37
REP 3346152	QC			2.4	70.1	11.3	115	0.1	7.5	28.5	2450	6.73	11	0.8	1.7	667	0.1	3.4	<0.1	261	5.41
3346159	Drill Core	4.17	0.009	1.5	177.8	5.8	100	0.2	7.3	29.1	1682	6.72	6	0.7	1.6	674	<0.1	2.2	<0.1	277	4.44
REP 3346159	QC		0.009																		
3346187	Drill Core	4.11	0.007	2.2	222.4	4.9	66	0.2	5.1	26.3	1654	4.86	3	0.6	1.5	182	0.1	1.9	<0.1	182	4.36
REP 3346187	QC			2.2	228.1	4.8	67	0.2	5.2	26.1	1661	4.89	4	0.6	1.4	186	0.2	1.9	<0.1	186	4.49
3346198	Drill Core	4.77	0.007	1.1	131.7	3.5	75	0.1	13.1	35.7	1742	7.16	6	0.2	0.5	796	<0.1	1.3	<0.1	346	6.71
REP 3346198	QC		0.009																		
3346222	Drill Core	4.27	0.008	4.2	115.5	2.6	30	<0.1	0.8	9.1	586	2.28	2	1.4	3.6	279	<0.1	0.6	<0.1	37	1.98
REP 3346222	QC			4.1	114.7	2.6	30	<0.1	0.9	9.5	581	2.27	3	1.5	3.8	262	<0.1	0.6	<0.1	37	1.98
3346234	Drill Core	4.67	0.011	0.9	125.9	5.4	100	0.2	11.3	41.1	2234	7.72	9	0.3	0.5	748	<0.1	2.3	<0.1	340	8.45
REP 3346234	QC		0.010																		
REP 3346257	QC			0.8	283.5	9.0	111	0.4	19.2	42.2	2022	8.58	5	0.2	0.2	468	0.3	2.5	<0.1	479	9.32
3346273	Drill Core	4.70	0.011	1.0	271.2	5.9	90	0.3	13.0	43.8	1639	8.69	8	0.4	0.8	828	0.1	1.9	<0.1	482	8.23
REP 3346273	QC		0.011																		
REP 3346291	QC			4.1	15.9	5.0	29	<0.1	2.7	6.9	523	2.19	6	2.9	5.4	317	<0.1	1.6	<0.1	69	1.94
3346308	Drill Core	4.34	0.009	3.6	13.0	7.0	30	<0.1	2.3	6.2	687	2.38	7	3.0	5.6	370	<0.1	2.5	<0.1	70	1.99
REP 3346308	QC		0.007																		
3346326	Drill Core	4.11	0.010	0.6	229.3	8.3	88	0.3	9.7	39.8	1332	7.78	9	0.3	0.7	1064	0.1	2.1	<0.1	431	7.44
REP 3346326	QC			0.7	228.5	8.3	92	0.3	9.9	38.5	1347	7.86	9	0.3	0.6	1106	0.2	2.2	<0.1	434	7.50
3346344	Drill Core	4.82	0.013	0.6	128.7	3.2	83	0.1	26.4	47.5	1577	9.98	5	0.1	0.2	557	<0.1	1.3	<0.1	541	8.96
REP 3346344	QC			0.5	129.0	3.2	83	0.1	26.4	48.3	1579	10.00	5	0.1	0.3	559	<0.1	1.2	<0.1	543	8.97
Core Reject Duplicates																					
3346121	Drill Core	3.71	0.018	1.2	211.0	9.9	119	0.3	9.0	28.4	2187	7.49	15	0.5	1.1	738	0.1	2.4	<0.1	296	5.47

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3346118	Drill Core	0.204	9.2	6	2.01	1508	0.500	9.24	2.643	4.07	1.0	28.3	19	0.8	16.0	5.1	0.3	<1	17	14.2	<0.1
REP 3346118	QC	0.188	8.6	5	1.97	1447	0.495	9.09	2.572	3.96	1.0	29.7	18	0.7	15.2	4.9	0.3	<1	16	13.3	<0.1
3346123	Drill Core	0.220	8.4	5	1.79	1766	0.488	9.15	2.250	3.77	2.2	22.2	17	0.6	14.9	4.3	0.2	<1	16	12.7	<0.1
REP 3346123	QC																				
3346152	Drill Core	0.169	9.7	5	2.08	1363	0.494	8.66	2.279	3.51	1.6	36.1	21	0.9	18.9	5.8	0.3	<1	16	13.7	0.2
REP 3346152	QC	0.181	9.5	5	2.07	1353	0.491	8.58	2.273	3.51	1.5	33.1	20	0.7	17.6	5.4	0.3	<1	16	14.1	0.2
3346159	Drill Core	0.170	7.7	5	2.14	1339	0.472	8.28	2.768	3.31	1.2	33.0	17	0.6	16.6	5.0	0.3	1	16	13.7	0.1
REP 3346159	QC																				
3346187	Drill Core	0.114	7.4	3	1.45	1052	0.272	7.28	1.705	3.95	0.7	24.2	16	0.8	9.2	4.7	0.3	1	12	6.6	0.4
REP 3346187	QC	0.112	6.8	2	1.46	1112	0.263	7.42	1.716	3.97	0.7	24.2	15	0.8	9.0	4.4	0.3	1	12	6.7	0.4
3346198	Drill Core	0.182	9.5	8	2.83	991	0.462	8.73	2.318	1.30	0.6	15.7	19	0.5	15.6	2.3	0.1	<1	21	16.1	0.2
REP 3346198	QC																				
3346222	Drill Core	0.057	13.4	2	0.52	1334	0.223	8.45	4.446	3.55	0.7	55.3	29	1.2	16.9	12.1	0.8	<1	3	3.4	0.5
REP 3346222	QC	0.058	12.8	2	0.52	1305	0.221	8.47	4.440	3.52	0.7	52.1	28	1.1	15.8	11.5	0.8	<1	3	3.4	0.5
3346234	Drill Core	0.208	7.8	5	3.04	513	0.517	8.87	1.696	1.18	1.3	13.5	16	0.4	15.2	1.6	<0.1	<1	23	16.0	1.3
REP 3346234	QC																				
REP 3346257	QC	0.026	2.4	11	3.39	396	0.460	7.86	0.435	2.57	0.7	12.2	6	0.4	10.1	0.7	<0.1	<1	29	18.5	1.0
3346273	Drill Core	0.042	4.7	5	3.39	582	0.584	8.44	1.285	1.79	0.5	23.1	10	0.6	12.8	2.2	0.2	<1	27	18.0	0.7
REP 3346273	QC																				
REP 3346291	QC	0.058	11.7	5	0.67	664	0.193	7.83	2.696	4.77	0.9	70.9	22	0.9	13.3	10.7	0.8	1	6	4.2	0.5
3346308	Drill Core	0.054	11.6	4	0.66	425	0.172	7.68	2.517	4.91	0.8	69.6	23	0.9	13.0	8.9	0.8	1	5	4.5	0.5
REP 3346308	QC																				
3346326	Drill Core	0.239	6.4	6	3.29	703	0.494	9.13	1.785	1.34	0.5	16.3	15	0.5	15.5	2.7	0.1	<1	22	15.9	0.3
REP 3346326	QC	0.240	6.5	7	3.33	726	0.499	9.11	1.802	1.47	0.5	17.0	16	0.6	15.7	2.8	0.1	1	22	16.5	0.3
3346344	Drill Core	0.025	2.4	38	4.62	234	0.576	6.98	0.770	0.75	0.3	17.5	6	0.5	10.6	0.8	<0.1	<1	38	20.3	0.3
REP 3346344	QC	0.025	2.5	37	4.64	232	0.576	7.02	0.777	0.77	0.3	16.8	6	0.5	10.9	0.8	<0.1	<1	38	20.8	0.3
Core Reject Duplicates																					
3346121	Drill Core	0.227	9.5	6	2.22	1333	0.562	9.31	2.771	2.82	0.9	31.0	20	0.6	16.6	5.3	0.3	<1	19	13.9	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3346118	Drill Core	68.0	1.1	<0.05	<0.005	<1	<0.5	<0.5
REP 3346118	QC	62.1	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346123	Drill Core	51.6	0.9	0.05	<0.005	<1	<0.5	<0.5
REP 3346123	QC							
3346152	Drill Core	74.0	1.2	<0.05	<0.005	<1	0.7	<0.5
REP 3346152	QC	67.8	1.2	0.05	<0.005	<1	0.7	<0.5
3346159	Drill Core	51.4	1.2	0.05	<0.005	<1	<0.5	<0.5
REP 3346159	QC							
3346187	Drill Core	104.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
REP 3346187	QC	102.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346198	Drill Core	30.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
REP 3346198	QC							
3346222	Drill Core	55.8	1.4	<0.05	<0.005	<1	<0.5	<0.5
REP 3346222	QC	52.5	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346234	Drill Core	43.3	0.8	0.05	<0.005	<1	<0.5	<0.5
REP 3346234	QC							
REP 3346257	QC	78.7	0.5	0.06	<0.005	2	<0.5	<0.5
3346273	Drill Core	55.6	1.0	<0.05	<0.005	<1	<0.5	<0.5
REP 3346273	QC							
REP 3346291	QC	103.9	1.9	<0.05	<0.005	<1	<0.5	0.5
3346308	Drill Core	109.9	2.0	<0.05	<0.005	<1	<0.5	0.6
REP 3346308	QC							
3346326	Drill Core	26.7	0.8	0.07	<0.005	<1	1.0	<0.5
REP 3346326	QC	27.1	0.7	<0.05	0.006	<1	0.6	<0.5
3346344	Drill Core	22.0	0.7	0.05	<0.005	<1	<0.5	<0.5
REP 3346344	QC	23.4	0.7	0.05	<0.005	<1	<0.5	<0.5
Core Reject Duplicates								
3346121	Drill Core	50.6	1.1	<0.05	<0.005	<1	<0.5	<0.5

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Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP 3346121	QC		0.015	1.2	200.4	9.2	115	0.2	9.7	26.0	2159	7.36	14	0.5	1.1	711	<0.1	2.2	<0.1	293	5.31
3346155	Drill Core	3.20	0.008	4.0	27.9	3.9	36	<0.1	3.7	8.4	659	2.75	6	1.6	3.8	206	<0.1	0.7	<0.1	96	2.74
DUP 3346155	QC		0.008	4.0	34.3	3.7	33	<0.1	3.1	8.2	633	2.63	5	1.6	3.6	192	<0.1	0.6	<0.1	91	2.57
3346189	Drill Core	2.56	0.006	3.8	18.8	4.4	23	<0.1	0.3	1.5	539	1.59	2	1.4	3.5	164	<0.1	0.7	<0.1	11	0.71
DUP 3346189	QC		<0.005	3.9	18.1	4.7	24	<0.1	0.3	1.6	545	1.62	2	1.5	3.7	173	<0.1	0.7	<0.1	10	0.76
3346223	Drill Core	3.43	0.005	3.8	43.1	3.4	36	<0.1	1.4	8.6	761	2.60	4	1.7	4.0	322	<0.1	0.9	<0.1	45	2.03
DUP 3346223	QC		0.006	3.7	33.6	3.3	34	<0.1	1.4	9.7	765	2.65	4	1.6	3.7	322	<0.1	0.8	<0.1	46	2.05
3346257	Drill Core	2.87	0.014	0.7	288.0	8.9	108	0.4	19.1	42.5	2024	8.57	6	0.2	0.2	460	0.3	2.5	<0.1	477	9.31
DUP 3346257	QC		0.014	0.9	291.4	9.0	112	0.4	18.4	42.9	1996	8.60	7	0.1	0.2	478	0.4	2.6	<0.1	478	9.18
3346291	Drill Core	3.95	0.009	4.2	15.8	5.2	32	<0.1	2.7	7.0	538	2.20	6	2.6	5.1	357	<0.1	1.5	<0.1	71	1.99
DUP 3346291	QC		0.008	4.2	15.2	4.9	29	<0.1	2.8	6.4	528	2.21	6	2.6	5.1	336	<0.1	1.4	<0.1	70	1.96
3346325	Drill Core	5.86	0.012	1.2	162.0	6.1	80	0.2	9.9	40.2	1435	7.52	7	0.3	0.6	850	0.2	1.8	<0.1	442	6.61
DUP 3346325	QC		0.015	1.3	153.4	5.9	77	0.2	10.2	39.1	1402	7.33	6	0.3	0.7	851	0.1	1.8	<0.1	430	6.50
Reference Materials																					
STD OREAS25A-4A	Standard			2.3	33.2	24.1	40	<0.1	44.1	7.6	499	6.74	9	2.7	15.7	45	<0.1	0.6	0.3	164	0.30
STD OREAS25A-4A	Standard			2.5	34.0	26.0	50	<0.1	46.2	7.8	513	6.60	10	2.8	16.1	49	<0.1	0.6	0.4	160	0.30
STD OREAS25A-4A	Standard			2.5	31.9	24.1	44	<0.1	47.6	8.1	491	6.49	10	2.8	14.8	46	<0.1	0.6	0.3	159	0.27
STD OREAS25A-4A	Standard			2.1	33.9	26.0	50	<0.1	46.5	8.0	499	6.57	11	2.8	15.3	47	<0.1	0.7	0.5	159	0.28
STD OREAS25A-4A	Standard			2.3	30.6	22.6	41	<0.1	45.4	7.7	488	6.29	9	2.5	14.5	45	<0.1	0.5	0.3	156	0.28
STD OREAS25A-4A	Standard			2.4	34.7	26.9	51	<0.1	46.8	8.2	514	6.87	11	3.0	16.9	53	<0.1	0.6	0.4	163	0.30
STD OREAS25A-4A	Standard			2.3	33.8	25.8	46	<0.1	46.8	8.0	513	6.73	11	2.8	15.6	50	<0.1	0.6	0.4	160	0.30
STD OREAS25A-4A	Standard			2.3	35.0	24.1	48	<0.1	49.3	8.1	508	6.60	11	2.5	13.3	49	<0.1	0.6	0.3	157	0.28
STD OREAS45E	Standard			2.8	790.4	18.0	42	0.3	479.1	61.6	568	25.15	16	2.3	12.5	16	<0.1	0.9	0.2	329	0.06
STD OREAS45H	Standard			1.6	813.7	13.1	41	0.1	458.9	97.3	412	21.10	17	1.8	7.9	33	<0.1	0.7	0.2	288	0.14
STD OREAS45H	Standard			1.6	764.2	12.9	45	0.1	449.3	90.8	426	19.67	17	1.7	7.7	29	<0.1	0.6	0.2	277	0.13
STD OREAS45H	Standard			1.6	809.8	12.7	40	0.1	457.4	96.3	409	21.30	17	1.7	7.6	29	<0.1	0.6	0.2	281	0.14
STD OREAS45E	Standard			2.5	786.6	20.1	47	0.3	474.2	63.4	563	25.38	19	2.6	14.2	18	<0.1	1.1	0.3	327	0.06
STD OREAS45E	Standard			2.3	786.7	17.8	44	0.3	487.2	61.6	611	24.44	15	2.3	13.0	16	<0.1	0.9	0.3	338	0.06
STD OREAS45H	Standard			1.4	810.6	13.3	47	0.2	462.2	95.4	414	21.62	19	2.1	8.3	32	<0.1	0.7	0.2	278	0.14

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
DUP 3346121	QC	0.219	9.3	5	2.22	1289	0.556	9.09	2.858	2.80	0.9	31.0	19	0.6	16.3	5.1	0.3	<1	18	13.6	<0.1
3346155	Drill Core	0.066	7.5	6	0.70	1015	0.273	7.29	3.205	5.19	2.5	57.1	16	1.0	11.6	9.7	0.8	<1	6	5.7	0.3
DUP 3346155	QC	0.072	7.5	6	0.68	1017	0.267	7.28	3.220	5.15	2.5	58.0	16	0.8	11.1	9.9	0.7	1	6	6.5	0.3
3346189	Drill Core	0.026	13.8	1	0.26	1562	0.118	7.51	2.768	5.76	0.8	68.5	27	0.8	9.3	9.0	0.6	1	2	2.9	0.3
DUP 3346189	QC	0.026	14.3	1	0.27	1615	0.119	7.99	2.752	5.93	0.8	69.3	28	0.8	9.5	9.1	0.6	1	2	3.0	0.3
3346223	Drill Core	0.070	15.0	3	0.62	1613	0.245	8.50	4.083	3.95	0.8	52.2	30	1.4	16.5	10.9	0.8	1	4	4.2	0.4
DUP 3346223	QC	0.068	15.3	2	0.60	1536	0.246	8.37	3.926	4.03	0.8	50.8	30	1.2	17.0	10.8	0.8	1	4	3.3	0.3
3346257	Drill Core	0.025	2.5	12	3.39	396	0.469	7.84	0.434	2.55	0.6	11.9	6	0.5	10.4	0.7	<0.1	1	30	18.2	1.0
DUP 3346257	QC	0.025	2.6	11	3.38	395	0.474	7.82	0.434	2.53	0.7	11.7	6	0.4	10.7	0.6	<0.1	<1	29	18.2	1.0
3346291	Drill Core	0.052	11.4	5	0.70	691	0.203	7.81	2.728	4.86	0.9	78.6	22	0.9	14.2	11.2	0.9	2	5	5.2	0.5
DUP 3346291	QC	0.054	10.8	5	0.68	503	0.200	7.72	2.709	4.85	0.8	71.9	21	0.8	13.6	10.4	0.8	1	5	4.2	0.5
3346325	Drill Core	0.130	5.5	6	3.52	554	0.488	9.20	2.498	1.25	0.8	14.5	12	0.6	13.6	2.3	0.1	<1	24	17.6	2.0
DUP 3346325	QC	0.124	5.4	6	3.42	607	0.476	9.08	2.446	1.26	0.8	13.9	12	0.5	13.6	2.4	0.1	<1	23	17.9	1.9
Reference Materials																					
STD OREAS25A-4A	Standard	0.044	20.9	128	0.36	134	0.896	9.29	0.145	0.48	1.8	147.3	47	3.7	9.7	18.5	1.3	<1	13	38.0	<0.1
STD OREAS25A-4A	Standard	0.049	23.4	110	0.32	153	0.883	9.19	0.135	0.47	1.7	152.7	50	4.1	11.0	18.7	1.3	1	13	37.0	<0.1
STD OREAS25A-4A	Standard	0.048	21.8	124	0.33	146	0.948	8.65	0.137	0.48	1.8	152.7	46	3.7	10.0	20.0	1.4	<1	14	38.3	<0.1
STD OREAS25A-4A	Standard	0.050	21.0	118	0.33	152	0.952	8.80	0.134	0.47	1.8	148.8	46	4.1	10.2	19.4	1.4	<1	13	36.8	<0.1
STD OREAS25A-4A	Standard	0.047	21.8	110	0.32	140	0.874	9.01	0.133	0.46	1.6	142.5	46	3.6	10.0	18.3	1.3	<1	13	38.2	<0.1
STD OREAS25A-4A	Standard	0.051	22.9	115	0.34	161	0.971	9.58	0.148	0.54	1.9	156.5	51	4.3	10.5	19.2	1.5	1	14	36.7	<0.1
STD OREAS25A-4A	Standard	0.053	21.9	116	0.33	154	0.956	9.39	0.136	0.50	1.8	149.7	49	4.6	10.7	19.2	1.4	1	13	38.5	<0.1
STD OREAS25A-4A	Standard	0.054	19.9	119	0.36	150	0.887	8.98	0.134	0.53	1.7	143.4	44	3.9	10.3	17.3	1.3	<1	12	36.5	<0.1
STD OREAS45E	Standard	0.031	10.9	1075	0.16	237	0.522	7.04	0.064	0.33	1.0	91.0	24	1.2	7.2	6.0	0.5	<1	96	6.6	<0.1
STD OREAS45H	Standard	0.023	14.2	656	0.25	364	0.861	8.42	0.084	0.22	0.9	128.5	26	2.2	10.9	14.5	1.0	1	60	14.0	<0.1
STD OREAS45H	Standard	0.022	13.1	629	0.23	343	0.894	8.18	0.078	0.20	0.8	122.4	26	1.8	10.4	13.5	0.9	1	58	13.2	<0.1
STD OREAS45H	Standard	0.024	14.1	677	0.27	345	0.910	8.22	0.105	0.22	0.9	126.0	25	1.9	10.0	14.4	1.0	1	61	14.4	<0.1
STD OREAS45E	Standard	0.035	12.6	1031	0.16	276	0.534	6.80	0.056	0.35	1.0	98.2	26	1.5	8.6	6.5	0.6	<1	99	6.4	<0.1
STD OREAS45E	Standard	0.034	11.1	1062	0.16	244	0.535	7.01	0.063	0.34	1.0	92.1	24	1.2	7.7	5.8	0.5	<1	92	6.5	<0.1
STD OREAS45H	Standard	0.028	14.1	673	0.29	388	0.918	8.38	0.096	0.24	0.9	122.9	27	2.3	10.5	13.8	1.1	1	64	13.3	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
DUP 3346121	QC	45.2	1.0	0.06	<0.005	<1	<0.5	<0.5
3346155	Drill Core	77.9	1.7	<0.05	<0.005	<1	<0.5	<0.5
DUP 3346155	QC	76.8	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346189	Drill Core	114.3	1.6	<0.05	<0.005	<1	<0.5	0.6
DUP 3346189	QC	117.6	1.6	<0.05	<0.005	<1	<0.5	0.6
3346223	Drill Core	65.1	1.5	<0.05	<0.005	<1	<0.5	<0.5
DUP 3346223	QC	62.2	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346257	Drill Core	77.6	0.5	0.05	<0.005	<1	<0.5	<0.5
DUP 3346257	QC	79.0	0.6	0.06	<0.005	<1	1.9	<0.5
3346291	Drill Core	113.5	2.0	<0.05	<0.005	<1	<0.5	0.5
DUP 3346291	QC	108.0	2.0	<0.05	<0.005	<1	<0.5	0.5
3346325	Drill Core	33.9	0.7	<0.05	0.046	2	1.3	<0.5
DUP 3346325	QC	33.5	0.7	<0.05	0.054	2	1.3	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	58.9	3.9	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	64.3	4.3	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	56.6	4.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	58.1	4.1	0.17	<0.005	<1	<0.5	<0.5
STD OREAS25A-4A	Standard	57.7	3.9	0.08	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	61.9	4.2	0.12	<0.005	1	<0.5	<0.5
STD OREAS25A-4A	Standard	61.2	4.4	0.09	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	53.8	3.8	0.07	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	19.5	2.8	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	25.7	3.6	0.12	<0.005	1	<0.5	<0.5
STD OREAS45H	Standard	23.8	3.4	0.08	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	23.4	3.4	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.7	3.3	0.08	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.8	2.8	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	23.7	3.8	0.16	<0.005	3	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS45E	Standard			2.2	777.6	19.1	51	0.3	466.4	61.5	561	25.25	18	2.5	13.6	18	<0.1	1.2	0.3	323	0.06
STD OREAS45E	Standard			2.0	772.3	17.7	50	0.3	470.5	60.6	596	24.06	16	2.4	11.8	17	<0.1	1.0	0.2	331	0.06
STD OXB130	Standard		0.124																		
STD OXB130	Standard		0.125																		
STD OXB130	Standard		0.122																		
STD OXB130	Standard		0.127																		
STD OXG141	Standard		0.913																		
STD OXG141	Standard		0.923																		
STD OXG141	Standard		0.932																		
STD OXG141	Standard		0.937																		
STD OXN155	Standard		7.844																		
STD OXN155	Standard		7.852																		
STD OXN155	Standard		7.761																		
STD OXN155	Standard		7.753																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	3	<0.01	<1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	2	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	3	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		

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Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS45E	Standard	0.035	11.1	1012	0.16	268	0.524	6.81	0.054	0.34	1.0	102.5	26	1.5	8.5	6.4	0.5	<1	97	7.5	<0.1
STD OREAS45E	Standard	0.036	9.0	1049	0.16	258	0.518	6.88	0.054	0.34	0.9	89.7	20	1.4	7.5	5.8	0.5	<1	90	6.6	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS45E	Standard	22.6	2.8	0.15	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	18.6	2.7	0.11	<0.005	2	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank							

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 20, 2020

QUALITY CONTROL REPORT VAN20001190.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		0.005	0.5	11.9	2.6	35	<0.1	1.0	3.3	565	1.89	2	1.3	3.0	182	<0.1	<0.1	<0.1	30	1.46
ROCK-VAN	Prep Blank		<0.005	0.7	9.9	2.4	33	<0.1	0.8	3.5	581	1.90	2	1.3	2.8	179	<0.1	0.1	<0.1	30	1.47

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QUALITY CONTROL REPORT VAN20001190.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.2	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.032	12.5	5	0.45	632	0.176	7.05	3.720	1.41	0.3	45.5	24	0.8	14.0	5.0	0.4	1	6	2.3	<0.1
ROCK-VAN	Prep Blank	0.033	11.2	4	0.46	606	0.186	7.01	3.752	1.43	0.3	46.9	22	0.9	14.4	5.2	0.3	<1	6	2.2	<0.1

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		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	25.7	1.5	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	25.2	1.7	0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 24, 2020
Analysis Start:	July 10, 2020
Report Date:	July 19, 2020
Page:	1 of 6

CERTIFICATE OF ANALYSIS VAN20001191.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_05
P.O. Number	M22165
Number of Samples:	138

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	128	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	3	Split samples by riffle splitter			VAN
PUL85	3	Pulverize to 85% passing 200 mesh			VAN
SLBHP	7	Sort, label and box pulps			VAN
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	138	Environmental disposal charge-Fire assay lead waste			VAN
MA200	138	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EN001-MA	138	Environmental disposal fee - Multi-acid neutralization			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485887	Drill Core	4.05	0.007	1.9	173.6	7.4	111	0.2	6.5	29.3	1620	6.63	9	0.8	1.9	746	0.2	2.6	<0.1	263	5.23
3485888	Drill Core	4.15	0.010	1.6	145.0	8.2	104	0.2	7.4	29.6	1564	6.65	10	1.0	2.2	1125	0.2	3.8	<0.1	262	5.96
3485889	Drill Core	4.29	0.007	10.5	164.4	7.6	114	0.2	6.9	25.8	1647	6.70	9	0.9	1.8	859	<0.1	2.6	0.1	267	5.19
3485890	Rock	1.39	<0.005	<0.1	1.0	0.6	3	<0.1	<0.1	0.4	117	0.10	3	0.2	<0.1	90	<0.1	<0.1	<0.1	<1	34.63
3485891	Drill Core	4.86	0.006	1.4	214.8	7.4	110	0.2	7.1	26.7	1500	6.49	8	0.9	2.1	1182	0.2	3.7	<0.1	279	6.17
3485892	Drill Core	4.63	0.007	3.8	186.3	6.1	120	0.2	6.5	29.0	1706	6.67	8	0.8	1.6	690	0.2	1.8	<0.1	264	5.06
3485893	Drill Core	4.67	0.006	1.7	169.7	7.4	109	0.2	6.5	27.2	1709	6.92	8	0.9	1.9	1099	<0.1	3.0	<0.1	283	6.47
3485894	Drill Core	4.57	0.020	3.0	173.8	6.3	107	0.2	8.4	29.5	1610	6.64	6	0.9	2.1	711	<0.1	1.7	<0.1	264	4.88
3485895	Drill Core	4.92	0.005	1.4	132.6	5.7	106	0.2	105.8	40.7	1566	6.69	9	1.4	2.9	968	0.1	1.9	<0.1	251	7.23
3485896	Drill Core	4.63	<0.005	1.5	129.2	7.4	87	0.1	108.0	42.5	1411	6.71	8	1.3	2.8	828	<0.1	1.3	<0.1	251	7.14
3485897	Drill Core	4.51	<0.005	1.7	146.9	7.2	100	0.1	106.9	40.4	1619	6.63	7	1.3	2.8	982	0.2	1.7	<0.1	248	7.59
3485898	Drill Core	3.65	<0.005	2.0	165.4	8.3	95	0.2	13.0	28.3	1594	6.82	9	0.8	1.9	916	0.1	3.5	<0.1	271	5.81
3485899	Drill Core	3.24	0.006	2.5	166.6	7.6	115	0.2	8.8	27.0	1602	6.82	10	0.8	1.8	869	<0.1	3.5	<0.1	267	5.34
3485900	Rock Pulp	0.13	0.218	92.6	2748.8	24.5	88	0.4	61.9	15.4	581	4.42	22	5.5	19.8	322	0.4	2.3	0.8	126	2.65
3485901	Drill Core	4.37	0.007	2.3	134.5	9.3	110	0.2	8.1	27.7	1702	6.92	11	0.8	1.7	728	<0.1	4.2	<0.1	292	6.12
3485902	Drill Core	4.38	0.007	2.3	133.2	5.9	114	0.2	7.7	27.2	1662	6.71	6	0.8	2.0	651	<0.1	2.0	<0.1	270	4.98
3485903	Drill Core	4.26	0.103	3.4	167.8	8.0	107	0.2	6.3	24.0	1481	6.21	7	0.8	1.8	543	0.2	3.8	<0.1	249	4.89
3485904	Drill Core	4.31	0.025	1.7	174.0	6.6	103	0.2	5.9	24.6	1573	6.59	9	0.9	2.2	954	0.1	2.9	<0.1	252	5.23
3485905	Drill Core	4.35	0.011	1.6	169.9	6.3	116	0.2	6.4	25.3	1718	6.84	10	0.9	2.2	703	<0.1	3.0	<0.1	264	5.10
3485906	Drill Core	4.60	0.012	2.4	212.3	5.8	101	0.2	7.5	29.1	1575	6.55	9	0.9	2.0	735	<0.1	1.3	<0.1	262	5.44
3485907	Drill Core	2.18	0.010	1.9	146.7	5.4	112	0.2	8.8	30.4	1574	6.80	9	0.9	1.8	704	0.1	1.2	<0.1	288	5.57
3485908	Drill Core	3.95	0.007	2.1	129.5	5.6	91	0.2	9.5	28.6	1564	6.78	9	0.8	1.8	884	0.1	2.5	<0.1	290	6.22
3485909	Drill Core	4.33	0.006	1.3	128.3	4.1	98	0.2	101.4	39.4	1476	6.55	7	1.4	2.8	811	<0.1	1.7	<0.1	247	6.40
3485910	Rock	1.41	<0.005	<0.1	1.1	0.3	3	<0.1	4.2	0.7	123	0.10	<1	0.2	<0.1	95	<0.1	<0.1	<0.1	<1	33.22
3485911	Drill Core	3.95	<0.005	1.5	107.0	3.9	104	0.2	109.2	40.4	1515	6.56	6	1.3	2.7	798	<0.1	1.5	<0.1	242	6.69
3485912	Drill Core	3.88	0.009	2.3	187.4	5.9	114	0.3	9.6	27.5	1649	6.76	5	0.8	1.6	887	0.1	1.7	<0.1	286	6.06
3485913	Drill Core	4.83	0.016	5.9	471.1	6.1	111	0.7	9.7	29.6	1694	7.05	6	1.1	2.0	891	0.2	1.7	<0.1	290	6.42
3485914	Drill Core	4.44	0.011	1.9	166.8	6.1	114	0.3	9.3	29.6	1674	6.93	6	0.8	1.6	777	<0.1	1.2	<0.1	302	5.71
3485915	Core DUP		0.012	2.0	162.7	5.9	109	0.3	9.4	28.7	1650	6.83	3	0.8	1.5	735	<0.1	1.1	<0.1	293	5.53
3485916	Drill Core	4.81	0.010	1.9	193.4	5.8	114	0.2	8.7	27.2	1759	6.94	7	0.9	1.9	926	0.1	2.4	<0.1	289	6.70

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485887	Drill Core	0.147	8.2	5	2.08	1279	0.476	8.67	2.675	2.76	1.0	39.7	17	0.7	15.6	6.8	0.4	<1	15	14.4	0.1
3485888	Drill Core	0.161	10.0	5	2.07	1139	0.488	8.99	2.577	2.94	1.3	31.9	20	0.8	17.0	6.6	0.4	2	16	13.6	0.2
3485889	Drill Core	0.155	7.9	5	2.07	1477	0.484	8.42	2.580	3.21	1.0	39.5	17	0.8	15.8	6.7	0.4	2	15	14.5	0.2
3485890	Rock	0.008	1.2	1	1.79	19	0.007	0.09	0.035	0.02	<0.1	1.3	1	<0.1	2.3	0.3	<0.1	<1	<1	1.1	<0.1
3485891	Drill Core	0.150	10.5	4	2.00	1240	0.495	8.88	2.405	2.97	2.0	33.0	21	0.8	18.4	7.2	0.4	1	16	14.7	0.1
3485892	Drill Core	0.156	7.5	4	2.09	1406	0.488	8.53	2.639	2.74	0.9	38.7	17	0.7	16.3	7.1	0.4	2	15	15.8	0.2
3485893	Drill Core	0.151	9.5	5	2.06	1335	0.497	9.44	2.500	2.78	1.0	37.5	19	0.8	17.0	6.5	0.4	<1	17	14.3	0.1
3485894	Drill Core	0.170	8.6	9	2.14	1399	0.475	8.79	2.740	2.87	0.9	37.4	18	0.7	16.3	6.9	0.4	1	16	16.5	0.2
3485895	Drill Core	0.222	12.6	229	5.15	1170	0.388	7.64	1.814	1.94	1.0	36.0	23	0.6	12.5	4.5	0.2	2	26	23.9	<0.1
3485896	Drill Core	0.206	11.6	235	5.33	1188	0.376	7.46	1.961	1.61	0.8	42.3	22	0.6	12.1	3.9	0.2	2	28	25.7	<0.1
3485897	Drill Core	0.202	12.0	234	5.26	754	0.370	7.39	1.996	1.25	0.9	35.5	23	0.6	12.1	4.2	0.2	4	26	23.7	<0.1
3485898	Drill Core	0.178	10.0	20	2.39	1570	0.464	8.80	2.537	2.59	1.1	32.5	21	0.9	17.5	6.4	0.4	<1	17	16.2	<0.1
3485899	Drill Core	0.162	8.3	6	2.22	1495	0.466	8.81	2.543	2.73	0.9	30.2	17	0.7	15.8	5.6	0.3	2	17	15.6	0.1
3485900	Rock Pulp	0.105	31.6	82	1.50	1089	0.492	7.56	2.074	3.09	4.5	69.1	64	3.6	24.2	17.9	1.4	2	13	33.8	0.3
3485901	Drill Core	0.156	8.0	6	2.16	1411	0.496	8.62	2.412	2.54	1.1	32.6	17	0.8	15.1	5.3	0.3	1	17	15.0	0.1
3485902	Drill Core	0.159	9.3	5	2.24	1471	0.446	8.89	2.734	2.94	2.0	25.4	19	0.6	15.7	5.0	0.3	1	17	18.3	0.1
3485903	Drill Core	0.173	9.1	5	1.85	1125	0.391	8.49	2.810	3.20	3.6	26.3	19	0.7	15.1	6.1	0.4	<1	15	19.4	0.2
3485904	Drill Core	0.171	9.7	6	1.89	1421	0.470	8.92	2.828	3.17	1.3	40.5	20	0.8	16.8	7.5	0.5	<1	15	14.9	0.1
3485905	Drill Core	0.198	9.2	5	2.06	1563	0.475	8.74	2.726	2.89	1.1	38.6	19	0.8	17.5	6.1	0.3	<1	16	16.2	<0.1
3485906	Drill Core	0.180	8.0	5	1.98	1454	0.461	8.70	2.671	2.56	0.9	42.1	17	0.7	15.8	6.2	0.3	<1	15	15.8	0.2
3485907	Drill Core	0.176	8.0	6	2.20	1363	0.462	8.58	2.579	2.70	0.8	39.4	18	0.9	16.5	5.5	0.3	<1	16	20.5	<0.1
3485908	Drill Core	0.142	7.5	6	2.12	1250	0.445	8.93	2.497	2.47	0.9	36.3	16	0.7	15.4	5.2	0.3	<1	16	15.5	0.1
3485909	Drill Core	0.194	11.6	221	5.05	1656	0.355	7.37	1.437	2.78	0.7	47.8	22	0.7	12.4	4.2	0.2	1	25	30.6	<0.1
3485910	Rock	0.008	1.1	1	1.71	32	0.006	0.07	0.026	0.01	<0.1	1.5	<1	<0.1	2.5	0.2	<0.1	<1	<1	1.2	<0.1
3485911	Drill Core	0.183	11.9	248	5.17	1482	0.352	7.31	1.371	2.75	0.9	34.3	24	0.6	13.2	4.4	0.2	1	25	35.4	<0.1
3485912	Drill Core	0.131	7.8	6	2.21	1109	0.477	8.76	2.541	2.25	0.7	41.6	18	0.7	17.7	6.2	0.3	<1	17	17.8	<0.1
3485913	Drill Core	0.169	9.4	7	2.27	1188	0.478	9.17	2.311	2.35	0.8	40.2	21	0.9	18.9	6.2	0.3	<1	19	21.0	0.3
3485914	Drill Core	0.173	8.5	7	2.26	1463	0.475	8.69	2.435	2.72	0.7	40.9	19	0.8	18.3	6.0	0.3	1	18	19.8	0.3
3485915	Core DUP	0.161	8.3	7	2.23	1418	0.452	8.59	2.353	2.69	0.8	37.0	18	0.9	17.4	5.7	0.3	1	17	17.7	0.3
3485916	Drill Core	0.174	8.4	7	2.20	1167	0.469	8.71	2.225	2.32	0.8	38.7	19	0.8	17.7	5.6	0.3	2	18	22.4	0.2

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485887	Drill Core	36.0	1.5	<0.05	<0.005	<1	0.5	<0.5
3485888	Drill Core	44.4	1.3	<0.05	<0.005	<1	1.0	<0.5
3485889	Drill Core	39.7	1.4	<0.05	0.026	<1	<0.5	<0.5
3485890	Rock	0.4	<0.1	<0.05	<0.005	<1	2.4	<0.5
3485891	Drill Core	56.1	1.1	<0.05	<0.005	2	<0.5	<0.5
3485892	Drill Core	37.0	1.2	0.06	0.007	<1	<0.5	<0.5
3485893	Drill Core	52.6	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485894	Drill Core	45.6	1.3	<0.05	<0.005	<1	0.6	<0.5
3485895	Drill Core	40.8	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485896	Drill Core	31.3	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485897	Drill Core	25.5	1.1	<0.05	<0.005	<1	<0.5	<0.5
3485898	Drill Core	42.0	1.3	<0.05	<0.005	<1	2.2	<0.5
3485899	Drill Core	43.3	1.2	0.06	<0.005	<1	<0.5	<0.5
3485900	Rock Pulp	185.6	2.4	0.09	<0.005	<1	<0.5	1.0
3485901	Drill Core	36.1	1.0	0.06	0.008	<1	<0.5	<0.5
3485902	Drill Core	67.1	0.9	<0.05	<0.005	1	<0.5	<0.5
3485903	Drill Core	76.6	0.9	0.06	<0.005	<1	0.6	<0.5
3485904	Drill Core	49.6	1.7	<0.05	<0.005	<1	0.8	<0.5
3485905	Drill Core	42.2	1.5	<0.05	<0.005	<1	<0.5	<0.5
3485906	Drill Core	36.5	1.5	0.06	<0.005	<1	<0.5	<0.5
3485907	Drill Core	35.6	1.4	0.07	<0.005	<1	<0.5	<0.5
3485908	Drill Core	38.6	1.2	<0.05	<0.005	<1	0.9	<0.5
3485909	Drill Core	59.0	1.0	<0.05	<0.005	1	<0.5	<0.5
3485910	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485911	Drill Core	66.0	1.2	0.07	<0.005	<1	0.7	<0.5
3485912	Drill Core	37.5	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485913	Drill Core	51.5	1.4	0.05	<0.005	<1	<0.5	<0.5
3485914	Drill Core	46.7	1.4	<0.05	<0.005	<1	<0.5	<0.5
3485915	Core DUP	45.9	1.2	<0.05	<0.005	<1	0.7	<0.5
3485916	Drill Core	44.8	1.4	<0.05	<0.005	<1	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485917	Drill Core	4.32	0.008	1.8	143.4	7.0	100	0.2	8.7	26.5	1611	6.80	7	0.8	1.8	735	0.1	1.6	<0.1	281	6.09
3485918	Drill Core	4.80	0.010	2.8	175.4	6.2	118	0.2	9.0	27.3	1673	6.71	6	0.9	1.9	672	0.2	1.6	<0.1	288	5.32
3485919	Drill Core	4.10	0.009	5.2	139.5	5.4	110	0.2	8.0	26.8	1600	6.67	6	0.9	2.0	686	<0.1	1.2	<0.1	279	5.39
3485920	Rock Pulp	0.13	0.655	358.4	5221.9	20.6	82	1.4	34.8	17.4	541	4.80	66	4.7	16.5	371	0.8	4.0	1.5	123	2.50
3485921	Drill Core	4.52	0.013	3.0	143.9	6.6	105	0.2	8.0	23.5	1706	7.01	7	0.8	1.7	922	<0.1	2.3	<0.1	289	6.20
3485922	Drill Core	4.81	0.015	1.9	192.8	5.4	111	0.3	8.6	31.8	1505	6.88	6	0.7	1.5	800	<0.1	1.9	<0.1	276	5.45
3485923	Drill Core	4.26	0.009	2.0	152.4	4.8	95	0.2	7.4	26.1	1446	6.69	8	0.6	1.4	1043	<0.1	3.0	<0.1	272	5.64
3485924	Drill Core	4.46	0.008	1.7	162.2	4.6	102	0.2	7.9	20.7	1700	6.63	5	0.7	1.5	728	<0.1	2.2	<0.1	265	5.07
3485925	Drill Core	4.32	0.009	1.8	144.7	5.5	117	0.2	8.7	26.7	1518	6.69	5	0.7	1.5	728	0.1	2.8	<0.1	263	4.79
3485926	Drill Core	4.46	0.006	1.3	118.4	3.9	92	0.1	8.0	25.9	1290	6.45	3	0.4	1.2	489	<0.1	1.5	<0.1	259	4.02
3485927	Drill Core	1.81	0.009	2.1	135.4	4.2	104	0.1	7.7	25.6	1447	6.50	3	0.5	1.2	450	<0.1	1.8	<0.1	261	4.04
3485928	Drill Core	4.09	0.012	2.3	160.3	4.3	90	0.2	7.4	26.7	1439	6.40	3	0.5	1.4	536	0.1	2.0	<0.1	247	4.87
3485929	Drill Core	2.36	0.056	9.1	444.4	7.8	106	0.6	8.3	23.9	1537	5.65	3	0.6	1.3	523	0.2	2.1	<0.1	218	6.16
3485930	Rock	1.35	<0.005	<0.1	2.9	0.5	4	<0.1	10.0	1.1	186	0.16	<1	0.2	<0.1	112	0.1	0.1	<0.1	4	32.42
3485931	Drill Core	4.41	0.031	1.8	185.2	6.3	101	0.3	8.7	25.4	1189	5.99	6	0.6	1.3	394	0.2	3.7	<0.1	237	5.25
3485932	Drill Core	4.41	0.023	1.4	333.9	9.2	70	0.3	26.6	18.2	1096	5.14	6	0.7	2.0	378	0.2	3.3	<0.1	211	5.82
3485933	Drill Core	2.42	0.009	2.3	76.2	12.9	36	<0.1	8.1	21.3	838	3.54	4	0.8	2.1	344	0.2	1.7	<0.1	118	3.78
3485934	Drill Core	4.62	0.008	1.5	139.1	11.5	118	0.1	7.6	21.3	1410	6.31	3	0.7	1.5	557	0.2	2.0	<0.1	256	5.02
3485935	Drill Core	4.66	0.009	1.3	165.4	8.8	97	0.2	7.3	24.3	1334	6.69	4	0.8	1.8	673	0.1	1.8	<0.1	264	4.84
3485936	Drill Core	4.83	0.005	1.1	115.2	42.3	154	0.1	6.6	23.9	1384	6.74	5	0.7	1.8	615	0.2	2.0	<0.1	258	4.09
3485937	Drill Core	3.52	0.010	1.7	149.6	15.8	109	0.2	7.6	24.5	1157	6.55	4	0.7	1.6	349	0.1	2.5	<0.1	249	3.44
3485938	Drill Core	4.23	0.011	14.1	156.8	9.1	89	0.2	7.1	23.5	1302	5.68	6	0.7	1.6	323	0.3	4.0	<0.1	229	5.91
3485939	Drill Core	4.59	0.009	0.6	98.8	12.2	98	0.2	7.6	24.6	1306	6.21	5	0.6	1.5	233	0.3	4.2	<0.1	243	4.81
3485940	Rock Pulp	0.13	0.212	85.6	2716.7	24.3	85	0.4	56.2	15.0	555	4.39	21	5.1	20.3	337	0.3	2.4	0.9	127	2.57
3485941	Drill Core	4.50	0.011	0.9	228.9	12.9	92	0.4	8.0	24.2	1223	6.12	3	0.6	1.3	199	0.3	4.2	<0.1	249	3.64
3485942	Drill Core	4.57	0.050	1.5	119.0	7.9	84	0.2	6.8	21.6	1217	5.74	10	0.8	1.7	360	0.3	3.4	<0.1	244	6.24
3485943	Drill Core	3.47	0.011	1.4	117.3	7.8	99	0.1	7.3	24.2	1246	6.23	4	0.8	1.7	575	<0.1	2.1	<0.1	241	4.83
3485944	Drill Core	3.37	0.010	1.4	112.9	6.2	81	0.1	7.5	23.9	1272	6.36	6	0.8	1.9	590	<0.1	2.3	<0.1	243	5.16
3485945	Drill Core	4.30	0.013	1.2	118.5	5.3	89	0.1	6.3	25.8	1285	6.47	4	0.6	1.5	492	<0.1	1.8	<0.1	247	4.31
3485946	Drill Core	4.36	0.029	1.6	142.6	5.6	89	0.1	7.7	24.0	1325	6.50	6	0.7	1.7	438	0.1	2.1	<0.1	251	5.14

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Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485917	Drill Core	0.147	8.1	6	2.17	1164	0.454	8.77	2.336	2.44	0.7	38.9	18	0.8	16.5	6.2	0.3	<1	18	20.6	<0.1
3485918	Drill Core	0.150	8.6	5	2.27	1310	0.457	8.55	2.133	3.29	1.2	39.0	19	0.7	17.4	6.2	0.3	<1	19	25.7	0.2
3485919	Drill Core	0.166	8.0	5	2.15	1281	0.438	8.70	2.295	2.77	1.3	46.2	18	0.8	17.0	5.9	0.3	<1	17	22.6	0.2
3485920	Rock Pulp	0.104	31.6	65	1.40	247	0.500	7.14	2.149	3.57	3.5	95.6	68	3.8	25.9	21.1	1.4	3	12	34.3	0.7
3485921	Drill Core	0.162	9.1	5	2.31	1185	0.455	8.77	2.576	2.79	1.5	33.9	20	0.8	18.1	5.9	0.3	1	18	20.4	0.2
3485922	Drill Core	0.147	7.4	6	2.14	1322	0.444	8.51	2.541	3.16	1.0	38.6	17	0.7	17.3	5.6	0.3	2	17	21.7	0.2
3485923	Drill Core	0.153	9.1	6	2.16	1336	0.428	8.58	2.812	3.32	1.4	33.8	19	0.7	17.5	5.2	0.3	1	18	21.9	0.1
3485924	Drill Core	0.165	8.4	5	2.19	1353	0.440	8.60	3.039	3.37	2.2	25.6	18	0.7	16.4	5.0	0.3	2	18	25.3	0.2
3485925	Drill Core	0.157	8.5	6	2.10	1588	0.433	8.27	2.976	3.66	1.0	30.0	19	0.7	16.6	5.4	0.3	<1	17	23.7	<0.1
3485926	Drill Core	0.157	6.9	5	2.09	1293	0.377	7.97	3.146	3.51	1.3	21.3	16	0.6	14.3	4.7	0.3	<1	16	25.3	<0.1
3485927	Drill Core	0.145	7.5	5	2.10	1097	0.394	7.97	3.138	3.43	1.2	25.1	17	0.6	15.3	4.9	0.3	<1	16	28.4	<0.1
3485928	Drill Core	0.149	8.6	5	1.97	1165	0.372	7.87	2.806	3.47	1.1	21.5	19	0.7	15.7	4.7	0.3	<1	16	27.6	0.2
3485929	Drill Core	0.135	8.0	5	2.06	1235	0.285	7.51	2.261	4.88	2.4	15.0	17	0.5	15.7	3.6	0.2	1	16	26.8	0.8
3485930	Rock	0.006	1.3	4	2.85	19	0.010	0.14	0.048	0.02	<0.1	1.9	1	0.1	3.0	0.3	<0.1	<1	<1	1.9	<0.1
3485931	Drill Core	0.141	8.1	6	1.88	945	0.239	7.45	2.339	4.96	12.7	15.8	18	0.5	10.9	3.1	0.2	2	16	23.9	0.4
3485932	Drill Core	0.114	7.8	67	1.83	990	0.184	6.99	1.422	5.26	9.6	18.8	17	0.5	9.8	2.7	0.2	1	15	15.0	0.3
3485933	Drill Core	0.101	5.6	17	1.23	718	0.126	7.32	2.747	6.00	2.8	28.7	14	0.4	8.7	2.9	0.2	2	7	9.9	0.7
3485934	Drill Core	0.149	8.2	5	2.04	1392	0.285	7.86	2.745	3.91	1.2	21.2	18	0.5	12.9	3.4	0.2	<1	16	22.3	0.1
3485935	Drill Core	0.176	9.2	5	2.19	1430	0.355	8.35	2.868	3.61	1.2	25.5	21	0.6	16.1	4.8	0.3	1	18	30.4	0.1
3485936	Drill Core	0.176	7.2	4	2.10	1607	0.288	8.12	2.663	4.03	0.9	20.6	17	0.5	13.1	3.4	0.2	2	15	30.9	<0.1
3485937	Drill Core	0.173	6.2	5	2.13	1361	0.243	7.83	2.258	4.27	1.1	19.8	15	0.7	10.9	2.7	0.2	1	17	30.4	0.2
3485938	Drill Core	0.161	7.9	4	1.18	1231	0.229	7.60	1.399	5.27	2.9	16.6	17	0.6	11.1	2.6	0.2	1	16	20.6	0.4
3485939	Drill Core	0.167	7.3	5	1.25	1132	0.218	7.81	1.622	4.79	1.9	14.8	17	0.7	10.3	2.6	0.2	2	16	22.7	0.2
3485940	Rock Pulp	0.105	27.7	76	1.49	1033	0.472	7.44	2.130	3.58	5.4	75.6	63	3.2	24.4	18.4	1.4	3	13	34.4	0.3
3485941	Drill Core	0.160	5.5	5	1.38	904	0.249	7.56	1.560	4.85	2.9	12.7	14	0.6	8.6	2.5	0.2	<1	17	24.8	0.2
3485942	Drill Core	0.162	7.5	5	1.44	1075	0.214	7.43	1.639	4.97	5.3	14.6	16	0.5	10.2	2.4	0.2	2	14	16.9	0.6
3485943	Drill Core	0.167	7.5	4	1.93	1492	0.265	7.95	2.029	4.67	1.4	23.0	17	0.4	12.3	3.2	0.2	2	16	30.1	0.1
3485944	Drill Core	0.185	9.0	5	1.98	1506	0.317	8.02	2.417	4.21	1.8	23.5	19	0.7	15.9	4.0	0.2	2	16	29.7	0.3
3485945	Drill Core	0.153	6.7	4	1.95	1398	0.330	7.88	2.304	4.01	1.8	21.4	16	0.5	12.9	3.9	0.2	<1	16	30.7	0.2
3485946	Drill Core	0.177	7.9	5	2.04	1292	0.350	8.22	2.523	3.76	2.1	23.6	18	0.7	15.6	4.4	0.3	<1	16	29.2	<0.1

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485917	Drill Core	37.5	1.2	<0.05	<0.005	1	1.1	<0.5
3485918	Drill Core	64.8	1.3	0.07	<0.005	<1	<0.5	<0.5
3485919	Drill Core	53.5	1.6	<0.05	0.007	<1	0.8	<0.5
3485920	Rock Pulp	199.0	2.7	0.14	0.234	3	<0.5	0.8
3485921	Drill Core	47.0	1.0	0.05	<0.005	1	<0.5	<0.5
3485922	Drill Core	55.3	1.1	<0.05	<0.005	<1	<0.5	<0.5
3485923	Drill Core	57.3	1.2	0.06	0.005	<1	<0.5	<0.5
3485924	Drill Core	59.1	1.0	<0.05	<0.005	<1	1.2	<0.5
3485925	Drill Core	72.1	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485926	Drill Core	64.3	0.8	<0.05	<0.005	<1	0.9	<0.5
3485927	Drill Core	65.7	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485928	Drill Core	76.3	0.7	0.08	<0.005	<1	0.7	<0.5
3485929	Drill Core	94.3	0.4	<0.05	0.006	1	0.6	<0.5
3485930	Rock	0.4	<0.1	<0.05	<0.005	1	1.1	<0.5
3485931	Drill Core	98.3	0.4	<0.05	<0.005	<1	0.7	<0.5
3485932	Drill Core	110.0	0.5	0.05	<0.005	<1	<0.5	<0.5
3485933	Drill Core	85.6	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485934	Drill Core	91.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485935	Drill Core	78.9	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485936	Drill Core	73.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485937	Drill Core	88.2	0.6	<0.05	<0.005	<1	0.5	<0.5
3485938	Drill Core	124.7	0.5	<0.05	0.055	<1	0.7	<0.5
3485939	Drill Core	127.1	0.4	0.05	<0.005	<1	<0.5	<0.5
3485940	Rock Pulp	189.3	2.5	<0.05	<0.005	<1	<0.5	1.1
3485941	Drill Core	105.4	0.4	0.08	<0.005	<1	0.6	<0.5
3485942	Drill Core	93.2	0.4	<0.05	<0.005	<1	1.2	<0.5
3485943	Drill Core	84.6	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485944	Drill Core	79.8	0.6	0.05	<0.005	<1	0.6	<0.5
3485945	Drill Core	71.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485946	Drill Core	66.6	0.7	<0.05	<0.005	<1	2.0	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485947	Drill Core	2.27	0.009	2.9	169.9	8.5	100	0.2	7.5	24.0	1443	6.61	6	0.8	1.8	481	0.2	2.7	<0.1	285	4.90
3485948	Drill Core	3.52	0.012	2.8	146.2	9.6	108	0.2	7.7	25.2	1394	6.33	5	0.7	1.5	450	<0.1	3.7	<0.1	261	4.13
3485949	Drill Core	4.55	0.024	1.2	166.6	8.4	100	0.2	7.3	22.1	1243	5.60	8	0.6	1.4	401	0.3	5.7	<0.1	223	4.31
3485950	Rock	1.34	<0.005	<0.1	1.4	0.5	3	<0.1	0.5	0.6	132	0.12	5	0.1	<0.1	93	<0.1	<0.1	<0.1	2	33.21
3485951	Drill Core	3.60	0.015	1.5	67.5	8.0	93	<0.1	7.8	23.1	884	5.45	6	0.5	1.2	560	0.3	6.2	<0.1	206	3.23
3485952	Drill Core	4.29	0.072	2.0	390.1	236.5	84	0.6	7.9	19.7	1173	5.16	13	0.4	1.1	501	0.5	6.2	0.6	196	5.09
3485953	Drill Core	4.26	0.011	2.2	127.6	12.9	78	0.1	7.7	20.9	1207	6.10	6	0.6	1.6	260	0.2	5.6	<0.1	268	5.07
3485954	Drill Core	3.16	0.008	1.1	98.6	7.5	98	0.2	7.6	24.4	1266	6.20	8	0.6	1.4	305	0.2	6.7	<0.1	257	4.10
3485955	Core DUP		0.011	1.3	106.3	9.9	105	0.2	8.9	29.7	1246	6.00	5	0.5	1.2	299	0.3	6.2	<0.1	248	4.04
3485956	Drill Core	3.17	0.007	1.9	136.8	9.0	101	0.1	7.9	30.0	1288	6.47	4	0.6	1.3	423	0.2	3.6	<0.1	261	3.97
3485957	Drill Core	5.00	0.009	1.8	146.3	5.5	101	0.1	7.7	29.1	1404	6.41	6	0.5	1.3	505	0.1	4.5	<0.1	260	4.38
3485958	Drill Core	4.41	0.008	2.3	161.4	6.9	106	0.2	8.8	32.6	1600	6.99	10	0.7	1.6	827	<0.1	4.1	<0.1	290	5.48
3485959	Drill Core	3.30	0.013	2.0	161.2	7.1	114	<0.1	9.6	33.8	1532	7.03	8	0.8	1.8	764	<0.1	4.6	<0.1	288	5.17
3485960	Rock Pulp	0.13	0.643	348.0	5121.4	20.9	80	1.3	36.7	18.5	538	4.78	57	4.4	15.6	373	0.8	3.4	1.5	118	2.54
3485961	Drill Core	4.09	0.025	1.7	122.6	4.8	81	0.1	7.2	25.2	1373	6.05	6	0.6	1.4	316	0.2	2.0	<0.1	244	6.86
3485962	Drill Core	3.71	0.030	2.0	173.1	4.9	102	0.2	7.6	29.0	1515	6.73	6	0.7	1.5	658	<0.1	2.9	<0.1	272	3.87
3485963	Drill Core	4.26	0.018	2.3	128.9	5.2	89	0.2	8.2	28.4	1538	6.82	8	0.8	1.6	683	<0.1	2.5	<0.1	279	4.04
3485964	Drill Core	4.42	0.014	1.9	159.5	5.2	90	0.2	8.0	29.2	1472	6.86	7	0.7	1.5	721	<0.1	2.3	<0.1	272	4.40
3485965	Drill Core	4.92	0.013	1.8	147.4	4.8	110	0.1	7.9	31.1	1528	6.92	8	0.7	1.5	836	<0.1	2.7	<0.1	278	4.86
3485966	Drill Core	4.34	0.017	1.7	145.8	5.2	96	0.2	7.9	28.7	1473	6.64	5	0.8	1.5	590	0.1	1.7	<0.1	272	5.03
3485967	Drill Core	4.98	0.014	2.2	145.8	5.6	88	0.2	8.6	29.0	1476	6.91	6	0.6	1.4	574	<0.1	2.4	<0.1	290	4.01
3485968	Drill Core	2.19	0.006	2.1	82.3	4.9	86	<0.1	8.0	25.2	1677	6.76	5	0.7	1.5	526	<0.1	2.0	<0.1	284	5.05
3485969	Drill Core	4.43	0.015	1.4	116.1	7.1	94	0.2	6.9	26.4	1501	6.70	4	0.6	1.3	436	0.2	1.8	<0.1	270	5.02
3485970	Rock	1.34	<0.005	<0.1	1.2	0.8	4	<0.1	<0.1	0.6	150	0.12	2	0.2	<0.1	82	<0.1	0.1	<0.1	2	32.36
3485971	Drill Core	2.95	0.320	52.2	167.3	71.2	169	1.8	21.8	27.6	1460	5.94	5	1.9	1.3	341	0.8	1.2	2.0	131	6.59
3485972	Drill Core	3.70	0.110	2.3	216.1	24.7	188	0.7	10.8	27.9	1546	6.28	2	1.1	1.4	390	0.4	1.5	<0.1	241	5.42
3485973	Drill Core	2.98	0.015	5.7	263.2	11.4	163	0.4	8.3	32.2	1504	6.77	3	0.9	1.5	551	0.3	1.6	<0.1	278	4.92
3485974	Drill Core	4.90	0.010	12.8	200.3	10.0	139	0.3	8.8	31.3	1588	6.93	5	1.0	1.7	642	0.6	2.3	<0.1	281	4.92
3485975	Drill Core	4.67	0.011	10.6	179.5	7.7	168	0.2	11.5	30.0	1738	7.00	6	1.0	2.0	689	0.2	1.9	0.1	265	5.27
3485976	Drill Core	4.78	0.013	9.0	157.1	6.5	124	0.2	8.9	29.6	1656	6.84	5	1.1	2.0	685	<0.1	2.6	<0.1	271	5.69

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485947	Drill Core	0.174	8.1	5	1.99	1222	0.341	8.19	2.691	3.78	1.1	22.8	19	0.7	15.2	4.8	0.3	1	18	28.5	0.2
3485948	Drill Core	0.166	6.3	5	1.83	1221	0.273	7.91	2.969	4.11	1.7	18.1	16	0.6	10.9	3.5	0.2	<1	15	24.1	0.3
3485949	Drill Core	0.145	6.3	4	1.63	1010	0.217	7.29	2.317	4.23	3.6	14.3	15	0.5	9.2	2.5	0.2	1	14	14.9	0.5
3485950	Rock	0.006	1.9	1	2.40	19	0.006	0.08	0.033	0.02	<0.1	1.8	1	<0.1	2.1	0.2	<0.1	<1	<1	1.3	<0.1
3485951	Drill Core	0.133	5.4	4	1.28	1100	0.168	6.67	1.376	4.05	1.7	13.7	14	0.6	8.7	1.9	0.1	1	12	9.4	0.2
3485952	Drill Core	0.121	6.9	4	1.60	1027	0.171	6.48	1.290	4.31	12.3	12.4	15	0.6	8.7	2.3	0.1	2	13	8.0	0.3
3485953	Drill Core	0.148	7.3	4	1.38	1058	0.223	8.00	1.942	3.97	4.6	11.9	17	0.7	10.7	2.4	0.2	2	16	14.5	0.2
3485954	Drill Core	0.153	6.7	3	1.85	916	0.232	7.64	1.465	3.93	5.8	11.7	16	0.6	9.8	2.6	0.2	<1	15	16.6	0.1
3485955	Core DUP	0.133	6.8	5	1.79	919	0.245	7.21	1.426	3.95	4.3	10.3	14	0.6	10.6	2.2	0.2	<1	16	15.8	0.1
3485956	Drill Core	0.147	7.2	5	2.20	1088	0.303	8.01	2.448	3.23	0.7	15.5	15	0.6	13.5	3.0	0.2	<1	17	28.3	<0.1
3485957	Drill Core	0.146	7.9	6	2.12	1060	0.400	8.17	2.460	3.21	1.4	19.3	16	0.7	14.0	4.3	0.3	1	17	28.6	<0.1
3485958	Drill Core	0.157	9.4	4	2.33	1292	0.470	8.65	2.466	2.93	0.7	31.4	18	0.8	16.7	5.5	0.3	<1	18	21.2	0.1
3485959	Drill Core	0.150	8.7	5	2.27	1309	0.460	8.56	2.414	3.26	0.8	32.9	17	0.8	17.7	6.0	0.3	<1	19	22.1	<0.1
3485960	Rock Pulp	0.112	30.8	70	1.39	570	0.483	7.27	2.151	3.52	3.2	81.3	61	3.8	23.4	19.1	1.3	2	13	28.6	0.7
3485961	Drill Core	0.141	9.1	5	2.07	700	0.427	7.83	2.766	3.34	2.8	16.7	16	0.7	14.3	4.6	0.3	1	16	24.4	0.3
3485962	Drill Core	0.170	8.9	5	2.16	1197	0.473	8.14	2.903	3.39	1.3	24.3	17	0.7	16.4	5.1	0.3	<1	18	21.8	<0.1
3485963	Drill Core	0.150	9.7	5	2.24	1369	0.477	8.34	2.825	3.32	1.4	22.5	18	0.7	15.9	4.8	0.3	<1	19	18.3	<0.1
3485964	Drill Core	0.161	9.2	6	2.24	1299	0.481	8.34	2.592	3.48	1.6	26.6	18	0.7	16.5	4.9	0.3	1	19	17.4	<0.1
3485965	Drill Core	0.158	9.0	5	2.22	1291	0.496	8.58	2.735	3.53	0.9	29.0	17	0.7	15.5	5.0	0.3	<1	18	16.8	<0.1
3485966	Drill Core	0.170	10.1	5	2.25	1363	0.487	8.35	2.657	3.29	0.9	26.4	19	0.6	16.3	4.9	0.3	<1	18	19.3	<0.1
3485967	Drill Core	0.152	8.6	5	2.22	1415	0.496	8.16	2.868	3.47	1.3	24.7	17	0.6	15.0	5.2	0.3	<1	19	17.1	<0.1
3485968	Drill Core	0.170	9.7	5	2.32	1448	0.483	8.42	2.510	3.41	1.2	20.6	18	0.6	15.9	4.5	0.3	<1	19	18.1	<0.1
3485969	Drill Core	0.166	8.9	5	2.08	1258	0.408	8.33	2.953	3.31	1.0	16.3	17	0.6	13.9	3.5	0.2	<1	18	18.6	<0.1
3485970	Rock	0.008	1.9	1	3.59	15	0.007	0.08	0.037	0.04	<0.1	1.7	1	0.1	2.5	0.2	<0.1	<1	<1	1.9	<0.1
3485971	Drill Core	0.142	9.6	28	1.79	59	0.319	6.89	0.914	4.77	3.4	20.0	18	0.5	14.9	4.7	0.2	<1	14	20.5	3.4
3485972	Drill Core	0.144	10.0	8	2.08	775	0.343	7.86	2.884	3.69	4.1	16.6	18	0.5	16.6	3.2	0.2	<1	19	17.0	0.9
3485973	Drill Core	0.161	10.2	5	2.07	1176	0.461	8.44	3.162	3.71	1.1	24.8	20	0.8	17.3	5.0	0.2	1	18	21.0	0.6
3485974	Drill Core	0.185	10.8	6	2.12	1505	0.499	8.70	2.768	3.91	0.8	31.8	21	0.8	17.7	5.4	0.3	1	18	15.0	0.4
3485975	Drill Core	0.181	11.6	10	2.29	1420	0.470	8.91	3.164	3.40	0.8	37.6	22	0.8	19.4	6.6	0.3	2	20	19.3	0.5
3485976	Drill Core	0.160	10.6	5	2.17	1281	0.466	8.81	2.879	3.20	0.8	44.0	20	0.8	19.0	5.8	0.3	<1	18	15.3	0.4

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Project: MAX
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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485947	Drill Core	75.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485948	Drill Core	77.4	0.6	<0.05	<0.005	<1	1.1	<0.5
3485949	Drill Core	85.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3485950	Rock	0.7	<0.1	<0.05	<0.005	<1	13.6	<0.5
3485951	Drill Core	96.8	0.4	0.06	<0.005	<1	<0.5	<0.5
3485952	Drill Core	96.0	0.3	<0.05	<0.005	1	1.4	<0.5
3485953	Drill Core	105.1	0.4	0.05	<0.005	<1	0.8	<0.5
3485954	Drill Core	119.6	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485955	Core DUP	104.4	0.3	0.08	<0.005	<1	0.9	<0.5
3485956	Drill Core	71.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
3485957	Drill Core	65.5	0.6	<0.05	<0.005	<1	0.9	<0.5
3485958	Drill Core	45.7	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485959	Drill Core	55.8	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485960	Rock Pulp	164.5	2.6	0.13	0.210	2	0.6	1.0
3485961	Drill Core	57.0	0.6	<0.05	<0.005	<1	<0.5	<0.5
3485962	Drill Core	44.6	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485963	Drill Core	59.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485964	Drill Core	56.6	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485965	Drill Core	50.3	0.9	<0.05	<0.005	<1	0.7	<0.5
3485966	Drill Core	61.5	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485967	Drill Core	54.5	0.9	<0.05	<0.005	<1	<0.5	<0.5
3485968	Drill Core	68.3	0.8	<0.05	<0.005	<1	<0.5	<0.5
3485969	Drill Core	70.7	0.5	0.06	<0.005	<1	1.2	<0.5
3485970	Rock	1.4	<0.1	<0.05	<0.005	<1	8.0	<0.5
3485971	Drill Core	73.1	0.6	<0.05	0.012	3	2.0	<0.5
3485972	Drill Core	63.5	0.4	<0.05	<0.005	<1	0.8	<0.5
3485973	Drill Core	81.8	0.7	<0.05	<0.005	<1	<0.5	<0.5
3485974	Drill Core	76.0	1.2	<0.05	<0.005	<1	0.6	<0.5
3485975	Drill Core	72.0	1.2	<0.05	0.010	1	<0.5	<0.5
3485976	Drill Core	60.8	1.3	0.07	<0.005	<1	<0.5	<0.5

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BUREAU VERITAS
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Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3485977	Drill Core	4.97	0.010	3.7	158.2	5.8	124	0.2	8.3	28.2	1679	6.94	7	0.8	1.6	615	<0.1	1.7	<0.1	274	5.35
3485978	Drill Core	4.94	0.009	2.4	158.5	6.3	108	0.2	8.4	30.9	1609	6.86	6	0.7	1.5	723	0.2	2.4	<0.1	260	5.42
3485979	Drill Core	4.79	0.008	2.5	163.9	5.9	105	0.2	8.8	27.0	1529	6.79	5	0.8	1.8	737	<0.1	1.3	<0.1	259	5.37
3485980	Rock Pulp	0.13	0.208	97.7	2724.2	22.0	90	0.4	67.8	16.6	566	4.44	20	4.7	17.5	315	0.3	2.5	0.8	127	2.58
3485981	Drill Core	4.87	0.012	1.9	153.0	6.1	112	0.2	8.9	30.3	1561	6.92	6	0.7	1.6	648	<0.1	1.4	<0.1	268	5.12
3485982	Drill Core	4.93	0.010	3.1	130.1	7.1	124	0.2	8.9	32.2	1556	6.94	5	0.7	1.7	651	0.2	1.4	0.2	258	4.35
3485983	Drill Core	4.49	0.022	11.1	121.2	19.1	122	0.3	8.7	25.3	1781	6.92	9	1.0	1.5	540	0.1	1.6	0.2	273	4.97
3485984	Drill Core	4.46	0.024	2.0	124.6	5.7	90	0.2	8.5	27.7	1627	6.49	6	0.7	1.6	626	<0.1	1.5	<0.1	258	4.23
3485985	Drill Core	4.85	0.013	6.3	162.1	6.4	101	0.2	9.5	29.2	1513	7.01	7	0.9	2.0	641	0.1	2.3	<0.1	262	5.43
3485986	Drill Core	4.89	0.010	1.7	145.4	5.8	97	0.2	9.8	30.1	1471	6.99	7	0.7	1.6	736	<0.1	3.3	<0.1	259	5.32
3485987	Drill Core	4.58	0.158	5.0	108.9	5.7	82	0.2	9.5	42.9	1373	7.63	9	0.8	1.5	548	0.1	2.1	0.2	280	4.34
3485988	Drill Core	4.32	0.015	1.7	107.6	9.6	86	0.2	9.7	27.7	1430	6.94	7	0.8	1.7	651	0.1	3.0	<0.1	265	5.69
3485989	Drill Core	4.18	0.013	1.9	102.5	10.3	84	0.2	10.1	34.1	1344	6.90	8	0.7	1.6	594	0.1	4.3	<0.1	271	5.85
3485990	Rock	1.32	<0.005	<0.1	0.5	0.5	2	<0.1	<0.1	0.6	150	0.11	<1	0.1	<0.1	78	<0.1	<0.1	<0.1	2	34.39
3485991	Drill Core	5.77	0.165	2.5	68.2	11.5	67	0.2	8.1	33.3	1273	6.71	6	0.8	1.7	653	<0.1	3.0	0.2	277	6.13
3485992	Drill Core	4.56	0.013	2.1	142.0	5.9	84	0.1	8.4	28.5	1522	7.18	4	0.8	1.7	611	<0.1	1.7	<0.1	269	5.15
3485993	Drill Core	4.36	0.011	2.0	152.1	6.2	83	0.2	8.2	28.8	1537	7.25	5	0.8	1.8	799	<0.1	1.9	<0.1	269	6.17
3485994	Drill Core	4.64	0.013	2.1	162.5	8.0	82	0.2	8.2	29.5	1479	6.99	5	0.8	1.6	681	<0.1	2.8	<0.1	265	5.23
3485995	Core DUP		0.013	2.2	168.9	8.2	85	0.2	8.4	30.8	1503	7.13	5	0.8	1.6	688	<0.1	2.8	<0.1	273	5.43
3485996	Drill Core	4.99	0.013	2.0	184.9	9.5	69	0.2	8.0	26.1	1396	6.97	5	0.9	1.9	583	<0.1	2.4	<0.1	270	5.58
3485997	Drill Core	4.51	0.042	1.8	145.4	5.9	65	0.2	8.0	27.6	1553	6.95	5	0.8	1.7	698	<0.1	2.8	<0.1	262	5.99
3485998	Drill Core	4.60	0.009	2.2	112.3	5.7	68	0.1	7.7	20.1	1576	6.81	5	0.7	1.5	719	<0.1	3.1	<0.1	271	5.72
3485999	Drill Core	4.34	0.019	2.4	85.0	7.5	80	0.1	8.5	24.5	1421	7.24	5	0.8	1.8	670	<0.1	3.8	<0.1	270	5.24
3486000	Rock Pulp	0.13	0.223	99.6	2708.7	20.5	79	0.4	61.8	15.6	553	4.38	16	4.6	16.8	307	<0.1	2.0	0.6	125	2.53
3486001	Drill Core	4.17	0.031	3.3	155.3	8.2	71	0.3	7.7	33.4	1254	7.36	5	0.7	1.3	516	<0.1	2.1	0.3	265	4.76
3486002	Drill Core	4.44	0.040	1.9	153.5	6.1	83	0.2	8.1	40.2	1519	7.48	5	0.6	1.3	640	<0.1	2.2	0.2	283	5.52
3486003	Drill Core	4.92	0.013	1.9	184.2	9.1	75	0.3	7.7	24.8	1484	6.92	5	0.7	1.7	623	<0.1	2.6	<0.1	267	5.06
3486004	Drill Core	4.71	0.011	1.9	135.3	5.2	82	0.2	8.1	31.6	1628	7.24	5	0.6	1.2	714	<0.1	2.5	0.1	284	5.52
3486005	Drill Core	4.53	0.021	2.8	133.6	5.5	86	0.2	8.5	37.7	1546	7.29	6	0.6	1.3	798	<0.1	2.7	0.2	288	5.16
3486006	Drill Core	4.25	0.019	10.1	127.9	6.0	96	0.2	9.0	30.4	1709	7.37	6	1.0	1.4	702	<0.1	2.0	0.2	290	5.12

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3485977	Drill Core	0.173	9.9	6	2.15	1373	0.479	8.78	2.955	3.07	0.9	35.1	19	0.7	17.6	5.6	0.3	1	18	15.2	0.3
3485978	Drill Core	0.182	9.8	7	2.14	1320	0.468	8.59	2.955	3.25	1.0	35.6	19	0.8	18.1	5.5	0.3	<1	18	12.7	0.3
3485979	Drill Core	0.179	9.8	6	2.05	1392	0.470	8.65	3.013	3.27	0.7	38.0	19	0.7	18.7	6.1	0.3	<1	18	12.1	0.2
3485980	Rock Pulp	0.108	33.8	93	1.49	1008	0.484	7.41	2.174	3.65	5.2	69.6	63	3.5	25.5	18.0	1.2	4	13	33.5	0.3
3485981	Drill Core	0.182	8.8	7	2.13	1402	0.482	8.57	3.082	3.21	0.7	39.1	17	0.7	17.8	5.9	0.3	<1	18	12.2	0.4
3485982	Drill Core	0.168	10.1	7	2.09	821	0.499	8.65	3.528	3.05	1.0	31.2	19	0.7	18.2	5.7	0.3	<1	17	19.4	1.5
3485983	Drill Core	0.171	9.6	7	1.97	157	0.530	7.85	2.533	3.88	3.8	32.1	19	0.8	18.2	5.8	0.3	1	18	18.4	2.5
3485984	Drill Core	0.161	10.4	6	2.10	296	0.496	8.47	2.972	3.85	2.5	28.7	19	0.8	18.6	5.6	0.3	<1	18	17.2	1.0
3485985	Drill Core	0.183	11.5	6	2.19	1287	0.467	8.77	2.612	3.54	1.8	36.0	21	0.8	18.8	5.5	0.3	1	18	12.2	0.5
3485986	Drill Core	0.169	9.6	7	2.13	1442	0.470	8.73	2.725	3.35	0.9	33.3	18	0.9	16.5	5.4	0.3	<1	18	9.7	0.4
3485987	Drill Core	0.173	11.0	6	2.12	204	0.462	8.54	2.465	3.63	2.6	26.3	20	0.9	18.4	5.3	0.3	<1	18	11.4	2.0
3485988	Drill Core	0.159	10.6	7	2.21	1282	0.486	8.70	2.768	3.03	1.3	30.7	19	0.8	17.8	5.3	0.3	1	18	11.2	0.5
3485989	Drill Core	0.170	10.6	9	2.22	912	0.460	8.33	2.931	2.39	1.3	24.0	19	0.8	17.6	5.1	0.3	<1	19	16.5	0.9
3485990	Rock	0.008	1.1	1	3.13	11	0.006	0.08	0.032	0.02	<0.1	1.4	<1	<0.1	2.0	0.1	<0.1	<1	<1	1.0	<0.1
3485991	Drill Core	0.176	9.7	6	1.93	805	0.482	9.43	3.284	2.52	2.3	29.6	19	0.8	17.3	5.4	0.3	<1	19	17.3	1.5
3485992	Drill Core	0.163	10.4	5	2.21	1369	0.494	9.46	3.006	2.97	0.8	57.4	19	0.7	16.9	5.3	0.3	<1	19	8.0	0.6
3485993	Drill Core	0.173	10.3	5	2.10	1263	0.486	9.34	2.620	2.76	0.9	41.6	20	0.7	16.9	5.4	0.3	<1	18	8.2	0.3
3485994	Drill Core	0.159	9.8	5	2.07	1319	0.489	9.12	2.598	3.04	1.3	33.6	19	0.7	16.2	5.4	0.3	<1	18	9.8	0.4
3485995	Core DUP	0.165	9.2	5	2.10	1337	0.480	8.99	2.622	3.20	1.3	35.7	19	0.7	16.7	5.6	0.3	<1	18	10.6	0.4
3485996	Drill Core	0.162	10.1	5	2.16	1325	0.461	9.12	2.370	3.37	1.3	33.2	20	0.7	16.4	5.3	0.3	1	18	18.1	0.2
3485997	Drill Core	0.160	10.1	5	2.28	1317	0.490	9.44	2.973	2.71	1.3	29.3	19	0.7	17.2	5.4	0.3	<1	19	7.0	0.6
3485998	Drill Core	0.167	8.5	5	2.05	1292	0.482	8.74	2.835	2.66	1.5	31.2	17	0.8	16.0	5.3	0.3	<1	17	6.9	0.2
3485999	Drill Core	0.172	10.4	5	2.15	1420	0.499	9.14	3.000	2.93	1.8	27.4	20	0.7	17.2	5.5	0.3	<1	19	13.6	0.4
3486000	Rock Pulp	0.100	28.2	85	1.47	965	0.480	7.41	2.166	3.31	3.6	71.6	58	3.0	21.9	17.6	1.2	3	13	34.9	0.3
3486001	Drill Core	0.153	8.6	4	2.12	891	0.438	8.74	2.623	3.35	1.6	20.9	17	0.7	14.7	4.4	0.3	<1	18	15.1	1.5
3486002	Drill Core	0.146	9.3	5	2.22	1067	0.487	9.20	2.788	3.27	1.9	26.5	18	0.6	15.7	4.5	0.3	<1	19	10.8	1.2
3486003	Drill Core	0.151	9.1	5	2.08	1181	0.455	9.17	3.159	3.13	1.2	26.1	17	0.6	15.4	4.7	0.3	<1	18	12.1	0.4
3486004	Drill Core	0.156	8.2	5	2.22	1121	0.487	9.02	3.290	2.52	1.6	27.6	17	0.6	15.4	4.7	0.3	<1	19	8.9	0.7
3486005	Drill Core	0.168	8.6	5	2.14	1020	0.494	9.17	3.087	3.15	1.5	24.2	17	0.6	15.4	4.9	0.3	<1	18	11.0	1.3
3486006	Drill Core	0.174	8.6	6	2.22	1174	0.495	8.93	3.223	3.53	1.8	29.3	17	0.6	15.3	4.8	0.3	2	18	12.4	0.9

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3485977	Drill Core	61.7	1.2	0.05	<0.005	<1	<0.5	<0.5
3485978	Drill Core	51.3	1.2	<0.05	<0.005	1	0.9	<0.5
3485979	Drill Core	52.2	1.4	<0.05	<0.005	1	<0.5	<0.5
3485980	Rock Pulp	179.5	2.1	0.08	<0.005	2	<0.5	1.0
3485981	Drill Core	43.6	1.4	0.06	<0.005	<1	0.6	<0.5
3485982	Drill Core	70.9	1.0	0.06	<0.005	2	<0.5	<0.5
3485983	Drill Core	74.7	1.1	<0.05	0.006	2	<0.5	<0.5
3485984	Drill Core	71.1	1.0	<0.05	<0.005	1	<0.5	<0.5
3485985	Drill Core	65.2	1.4	<0.05	<0.005	<1	0.8	<0.5
3485986	Drill Core	56.3	1.2	0.07	<0.005	<1	0.6	<0.5
3485987	Drill Core	72.1	1.0	<0.05	0.005	<1	<0.5	<0.5
3485988	Drill Core	55.4	1.1	<0.05	<0.005	<1	0.5	<0.5
3485989	Drill Core	45.6	0.9	<0.05	<0.005	<1	1.0	<0.5
3485990	Rock	0.5	<0.1	<0.05	<0.005	1	<0.5	<0.5
3485991	Drill Core	52.1	0.9	<0.05	<0.005	1	<0.5	<0.5
3485992	Drill Core	67.8	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485993	Drill Core	54.1	1.3	<0.05	<0.005	<1	<0.5	<0.5
3485994	Drill Core	60.6	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485995	Core DUP	55.1	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485996	Drill Core	79.1	1.0	<0.05	<0.005	<1	<0.5	<0.5
3485997	Drill Core	48.4	1.1	<0.05	<0.005	<1	<0.5	<0.5
3485998	Drill Core	40.1	1.1	<0.05	<0.005	<1	<0.5	<0.5
3485999	Drill Core	47.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486000	Rock Pulp	167.3	2.2	0.07	<0.005	2	<0.5	0.9
3486001	Drill Core	65.8	0.7	<0.05	<0.005	1	<0.5	<0.5
3486002	Drill Core	65.7	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486003	Drill Core	64.3	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486004	Drill Core	35.6	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486005	Drill Core	44.0	0.8	<0.05	<0.005	1	<0.5	<0.5
3486006	Drill Core	59.6	1.0	<0.05	0.008	<1	<0.5	<0.5

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	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486007	Drill Core	4.21	0.010	16.1	150.6	5.2	97	0.2	8.8	32.4	1616	7.23	5	0.8	1.2	772	<0.1	1.7	<0.1	291	5.22
3486008	Drill Core	4.65	0.010	1.8	156.6	4.4	97	0.2	9.9	31.9	1724	8.01	5	1.0	1.9	783	<0.1	2.1	<0.1	336	6.63
3486009	Drill Core	4.63	0.009	2.3	162.5	4.3	95	0.2	9.4	30.4	1628	7.65	4	1.0	2.1	778	<0.1	1.9	<0.1	294	6.47
3486010	Rock	1.32	<0.005	<0.1	1.1	0.4	2	<0.1	<0.1	0.6	131	0.11	<1	0.1	<0.1	80	<0.1	<0.1	<0.1	2	35.55
3486011	Drill Core	4.11	0.011	5.2	139.8	4.8	101	0.2	8.4	28.2	1626	7.07	5	0.8	1.2	672	<0.1	1.5	<0.1	284	6.15
3486012	Drill Core	4.97	0.009	2.6	147.9	4.2	97	0.2	9.0	32.4	1604	7.36	5	0.5	1.0	764	<0.1	1.7	<0.1	297	6.12
3486013	Drill Core	4.63	0.009	2.1	131.7	3.5	92	0.1	8.8	30.3	1517	7.00	4	0.7	1.3	662	<0.1	0.8	<0.1	289	5.85
3486014	Drill Core	4.09	0.010	8.1	161.9	3.6	100	0.2	8.3	28.0	1749	7.29	4	0.7	1.3	706	<0.1	1.5	<0.1	281	5.89
3486015	Drill Core	4.52	0.010	2.0	126.5	4.3	82	0.2	8.0	27.4	1636	6.91	6	0.6	1.1	919	<0.1	2.9	<0.1	280	6.79
3486016	Drill Core	4.82	0.008	3.3	134.4	4.4	82	0.2	8.1	26.7	1680	7.32	4	0.8	1.7	703	<0.1	1.3	<0.1	281	5.97
3486017	Drill Core	5.14	0.018	1.6	200.9	4.8	78	0.3	10.0	81.2	1788	8.48	6	0.8	1.6	1293	<0.1	2.2	<0.1	318	8.00
3486018	Drill Core	4.86	0.009	1.5	148.1	4.4	88	0.2	8.7	26.1	1680	7.15	4	0.7	1.4	754	<0.1	1.4	<0.1	283	6.22
3486019	Drill Core	4.97	0.011	1.2	154.2	3.9	75	0.2	8.6	29.7	1575	7.37	4	0.4	0.9	677	<0.1	1.5	<0.1	292	6.00
3486020	Rock Pulp	0.13	0.230	95.7	2652.1	20.2	75	0.4	60.9	15.6	540	4.33	17	4.1	15.8	298	<0.1	1.9	0.6	122	2.49
3486021	Drill Core	4.04	0.009	1.6	118.4	4.2	88	0.2	8.8	28.6	1647	7.04	5	0.5	0.9	839	<0.1	1.6	<0.1	278	5.98
3486022	Drill Core	3.46	0.007	0.2	171.4	3.7	71	0.2	7.3	15.8	1250	5.76	6	0.9	1.9	904	<0.1	2.0	<0.1	243	4.91
3486023	Drill Core	3.54	0.006	0.5	107.6	5.7	56	0.1	4.9	16.7	1015	4.55	3	1.2	2.1	974	<0.1	1.2	<0.1	194	3.62
3486024	Drill Core	4.16	0.013	1.5	168.5	5.6	68	0.2	8.5	31.6	1565	7.13	5	0.5	0.8	756	<0.1	1.8	<0.1	282	6.21

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486007	Drill Core	0.182	9.2	5	2.24	1468	0.495	9.29	2.829	3.80	1.5	24.6	18	0.5	15.2	3.5	0.2	<1	19	14.1	0.7
3486008	Drill Core	0.196	9.2	6	2.56	1165	0.515	9.14	2.951	1.92	1.0	46.0	19	0.6	17.7	5.2	0.3	<1	20	12.6	0.2
3486009	Drill Core	0.194	9.5	5	2.50	1288	0.509	9.17	2.945	1.89	1.0	49.7	19	0.7	17.0	6.1	0.3	1	20	12.0	0.1
3486010	Rock	0.008	1.1	1	2.28	14	0.007	0.08	0.036	0.02	<0.1	1.7	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.0	<0.1
3486011	Drill Core	0.162	8.3	5	2.32	1616	0.495	9.08	2.745	3.01	2.1	25.4	16	0.4	14.7	2.8	0.2	<1	20	12.6	0.5
3486012	Drill Core	0.150	7.0	6	2.30	1761	0.506	8.67	2.633	2.89	0.7	30.5	15	0.4	14.0	3.6	0.2	<1	19	11.4	0.2
3486013	Drill Core	0.167	7.3	5	2.25	1847	0.495	8.49	2.538	2.59	0.5	40.1	15	0.5	14.4	4.4	0.3	<1	18	12.1	<0.1
3486014	Drill Core	0.146	7.8	5	2.20	1377	0.473	8.56	2.797	2.84	2.4	30.5	15	0.5	14.2	4.2	0.2	<1	18	14.5	0.3
3486015	Drill Core	0.152	8.9	4	2.19	1345	0.479	9.02	2.513	2.86	1.6	23.1	17	0.4	14.4	3.4	0.2	<1	18	11.0	0.2
3486016	Drill Core	0.150	7.6	5	2.24	1639	0.488	8.94	2.883	2.53	0.8	33.9	16	0.6	14.5	5.1	0.3	<1	18	12.6	0.2
3486017	Drill Core	0.191	9.6	6	2.48	838	0.511	9.34	2.361	1.20	0.9	31.5	19	0.6	17.0	4.2	0.2	<1	20	14.5	0.9
3486018	Drill Core	0.178	8.3	5	2.30	1611	0.494	9.02	2.762	2.64	1.0	33.4	17	0.4	15.3	3.6	0.2	<1	19	13.6	0.3
3486019	Drill Core	0.166	7.7	5	2.28	1427	0.493	8.84	2.745	2.69	1.1	27.6	16	0.4	14.6	2.9	0.2	<1	19	14.1	0.2
3486020	Rock Pulp	0.096	28.2	82	1.44	952	0.493	7.31	2.139	3.38	3.6	68.4	58	2.9	21.6	17.0	1.2	3	13	33.7	0.3
3486021	Drill Core	0.177	7.7	5	2.22	1640	0.485	8.80	2.738	2.78	0.7	24.6	16	0.5	13.9	3.7	0.2	<1	17	15.6	0.3
3486022	Drill Core	0.306	9.5	2	1.72	1262	0.472	8.70	3.354	3.30	0.4	29.4	20	0.6	13.4	4.3	0.3	1	10	16.3	<0.1
3486023	Drill Core	0.223	7.8	2	1.21	1651	0.346	8.55	2.375	5.41	0.5	21.7	16	0.5	10.2	4.3	0.2	2	6	11.4	0.1
3486024	Drill Core	0.156	7.4	5	2.22	969	0.481	8.82	2.682	2.38	0.8	21.8	14	0.4	13.4	3.0	0.2	<1	18	12.8	0.3

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486007	Drill Core	76.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486008	Drill Core	38.7	1.4	<0.05	<0.005	<1	<0.5	<0.5
3486009	Drill Core	41.0	1.5	<0.05	<0.005	<1	<0.5	<0.5
3486010	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
3486011	Drill Core	55.0	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486012	Drill Core	41.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486013	Drill Core	39.5	1.3	<0.05	<0.005	<1	<0.5	<0.5
3486014	Drill Core	46.8	1.1	<0.05	0.007	<1	<0.5	<0.5
3486015	Drill Core	50.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486016	Drill Core	34.1	1.1	<0.05	0.006	<1	<0.5	<0.5
3486017	Drill Core	28.0	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486018	Drill Core	42.3	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486019	Drill Core	41.7	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486020	Rock Pulp	166.7	2.2	0.06	<0.005	1	<0.5	0.9
3486021	Drill Core	41.5	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486022	Drill Core	34.2	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486023	Drill Core	59.6	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486024	Drill Core	35.4	0.8	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3485888	Drill Core	4.15	0.010	1.6	145.0	8.2	104	0.2	7.4	29.6	1564	6.65	10	1.0	2.2	1125	0.2	3.8	<0.1	262	5.96
REP 3485888	QC		0.046																		
3485912	Drill Core	3.88	0.009	2.3	187.4	5.9	114	0.3	9.6	27.5	1649	6.76	5	0.8	1.6	887	0.1	1.7	<0.1	286	6.06
REP 3485912	QC			2.2	188.6	6.0	117	0.3	9.7	28.6	1673	6.86	6	0.8	1.7	899	0.2	1.7	<0.1	290	6.10
3485924	Drill Core	4.46	0.008	1.7	162.2	4.6	102	0.2	7.9	20.7	1700	6.63	5	0.7	1.5	728	<0.1	2.2	<0.1	265	5.07
REP 3485924	QC		0.007	1.8	164.0	4.5	103	0.2	8.0	21.5	1709	6.58	7	0.7	1.6	772	<0.1	2.4	<0.1	265	5.04
3485959	Drill Core	3.30	0.013	2.0	161.2	7.1	114	<0.1	9.6	33.8	1532	7.03	8	0.8	1.8	764	<0.1	4.6	<0.1	288	5.17
REP 3485959	QC			2.0	157.3	6.6	112	<0.1	9.5	32.2	1491	6.94	8	0.7	1.7	740	<0.1	4.5	<0.1	283	5.10
3485963	Drill Core	4.26	0.018	2.3	128.9	5.2	89	0.2	8.2	28.4	1538	6.82	8	0.8	1.6	683	<0.1	2.5	<0.1	279	4.04
REP 3485963	QC		0.018																		
3485991	Drill Core	5.77	0.165	2.5	68.2	11.5	67	0.2	8.1	33.3	1273	6.71	6	0.8	1.7	653	<0.1	3.0	0.2	277	6.13
REP 3485991	QC		0.152																		
3485994	Drill Core	4.64	0.013	2.1	162.5	8.0	82	0.2	8.2	29.5	1479	6.99	5	0.8	1.6	681	<0.1	2.8	<0.1	265	5.23
REP 3485994	QC			2.2	163.3	8.2	83	0.2	8.2	29.8	1488	7.01	5	0.8	1.7	683	<0.1	2.8	<0.1	267	5.29
3486015	Drill Core	4.52	0.010	2.0	126.5	4.3	82	0.2	8.0	27.4	1636	6.91	6	0.6	1.1	919	<0.1	2.9	<0.1	280	6.79
REP 3486015	QC		0.008																		
Core Reject Duplicates																					
3485899	Drill Core	3.24	0.006	2.5	166.6	7.6	115	0.2	8.8	27.0	1602	6.82	10	0.8	1.8	869	<0.1	3.5	<0.1	267	5.34
DUP 3485899	QC		0.006	2.2	169.5	7.8	114	0.2	8.5	28.1	1644	6.99	10	0.8	1.7	894	0.2	3.6	<0.1	272	5.37
3485933	Drill Core	2.42	0.009	2.3	76.2	12.9	36	<0.1	8.1	21.3	838	3.54	4	0.8	2.1	344	0.2	1.7	<0.1	118	3.78
DUP 3485933	QC		0.011	2.3	84.1	13.6	37	<0.1	9.2	22.3	861	3.62	4	1.0	2.4	352	0.1	1.6	<0.1	119	3.88
3485967	Drill Core	4.98	0.014	2.2	145.8	5.6	88	0.2	8.6	29.0	1476	6.91	6	0.6	1.4	574	<0.1	2.4	<0.1	290	4.01
DUP 3485967	QC		0.027	2.1	148.5	5.9	85	0.2	7.6	29.0	1511	6.94	8	0.7	1.5	609	<0.1	2.5	<0.1	291	4.23
3486001	Drill Core	4.17	0.031	3.3	155.3	8.2	71	0.3	7.7	33.4	1254	7.36	5	0.7	1.3	516	<0.1	2.1	0.3	265	4.76
DUP 3486001	QC		0.032	3.3	155.3	8.3	72	0.3	7.9	34.8	1278	7.58	5	0.7	1.4	527	<0.1	2.1	0.3	270	4.85
Reference Materials																					
STD OREAS25A-4A	Standard			2.6	33.6	25.6	46	<0.1	50.3	8.5	491	6.95	10	2.8	15.1	48	<0.1	0.6	0.4	164	0.27
STD OREAS25A-4A	Standard			2.2	33.0	26.3	53	<0.1	44.5	7.8	500	6.55	11	3.0	17.0	49	<0.1	0.7	0.4	158	0.29

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Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3485888	Drill Core	0.161	10.0	5	2.07	1139	0.488	8.99	2.577	2.94	1.3	31.9	20	0.8	17.0	6.6	0.4	2	16	13.6	0.2
REP 3485888	QC																				
3485912	Drill Core	0.131	7.8	6	2.21	1109	0.477	8.76	2.541	2.25	0.7	41.6	18	0.7	17.7	6.2	0.3	<1	17	17.8	<0.1
REP 3485912	QC	0.136	8.6	6	2.25	1179	0.473	9.12	2.620	2.25	0.8	42.5	19	0.8	18.0	6.4	0.3	1	18	18.4	<0.1
3485924	Drill Core	0.165	8.4	5	2.19	1353	0.440	8.60	3.039	3.37	2.2	25.6	18	0.7	16.4	5.0	0.3	2	18	25.3	0.2
REP 3485924	QC	0.153	8.4	5	2.21	1382	0.433	8.69	3.042	3.35	2.1	26.7	18	0.6	16.7	5.0	0.3	<1	17	24.2	0.2
3485959	Drill Core	0.150	8.7	5	2.27	1309	0.460	8.56	2.414	3.26	0.8	32.9	17	0.8	17.7	6.0	0.3	<1	19	22.1	<0.1
REP 3485959	QC	0.144	8.7	6	2.20	1259	0.446	8.26	2.362	3.37	0.7	30.5	17	0.8	16.9	5.8	0.3	<1	18	20.8	<0.1
3485963	Drill Core	0.150	9.7	5	2.24	1369	0.477	8.34	2.825	3.32	1.4	22.5	18	0.7	15.9	4.8	0.3	<1	19	18.3	<0.1
REP 3485963	QC																				
3485991	Drill Core	0.176	9.7	6	1.93	805	0.482	9.43	3.284	2.52	2.3	29.6	19	0.8	17.3	5.4	0.3	<1	19	17.3	1.5
REP 3485991	QC																				
3485994	Drill Core	0.159	9.8	5	2.07	1319	0.489	9.12	2.598	3.04	1.3	33.6	19	0.7	16.2	5.4	0.3	<1	18	9.8	0.4
REP 3485994	QC	0.164	10.0	5	2.09	1343	0.495	9.15	2.647	3.12	1.3	34.5	19	0.7	16.2	5.5	0.3	<1	17	9.9	0.4
3486015	Drill Core	0.152	8.9	4	2.19	1345	0.479	9.02	2.513	2.86	1.6	23.1	17	0.4	14.4	3.4	0.2	<1	18	11.0	0.2
REP 3486015	QC																				
Core Reject Duplicates																					
3485899	Drill Core	0.162	8.3	6	2.22	1495	0.466	8.81	2.543	2.73	0.9	30.2	17	0.7	15.8	5.6	0.3	2	17	15.6	0.1
DUP 3485899	QC	0.166	8.5	5	2.22	1531	0.473	8.80	2.562	2.81	1.0	30.3	18	0.7	16.0	5.5	0.3	<1	17	14.0	0.1
3485933	Drill Core	0.101	5.6	17	1.23	718	0.126	7.32	2.747	6.00	2.8	28.7	14	0.4	8.7	2.9	0.2	2	7	9.9	0.7
DUP 3485933	QC	0.109	6.4	18	1.27	827	0.130	7.55	2.738	6.72	3.0	27.9	15	0.4	9.1	3.0	0.2	<1	7	9.8	0.7
3485967	Drill Core	0.152	8.6	5	2.22	1415	0.496	8.16	2.868	3.47	1.3	24.7	17	0.6	15.0	5.2	0.3	<1	19	17.1	<0.1
DUP 3485967	QC	0.164	9.2	6	2.28	1383	0.497	8.38	2.820	3.49	1.2	24.4	18	0.7	15.4	5.3	0.3	<1	18	17.6	<0.1
3486001	Drill Core	0.153	8.6	4	2.12	891	0.438	8.74	2.623	3.35	1.6	20.9	17	0.7	14.7	4.4	0.3	<1	18	15.1	1.5
DUP 3486001	QC	0.155	9.0	5	2.14	891	0.444	8.85	2.676	3.40	1.7	21.6	17	0.7	14.9	4.4	0.3	<1	18	15.4	1.6
Reference Materials																					
STD OREAS25A-4A	Standard	0.052	20.4	131	0.35	152	0.933	9.29	0.149	0.52	1.9	162.4	44	4.1	10.2	21.3	1.5	<1	14	41.2	<0.1
STD OREAS25A-4A	Standard	0.049	22.0	112	0.32	154	0.912	9.36	0.135	0.47	1.8	148.7	49	4.0	10.2	18.8	1.4	<1	13	36.7	<0.1

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3485888	Drill Core	44.4	1.3	<0.05	<0.005	<1	1.0	<0.5
REP 3485888	QC							
3485912	Drill Core	37.5	1.4	<0.05	<0.005	<1	<0.5	<0.5
REP 3485912	QC	37.6	1.3	<0.05	<0.005	2	0.6	<0.5
3485924	Drill Core	59.1	1.0	<0.05	<0.005	<1	1.2	<0.5
REP 3485924	QC	59.5	0.8	0.06	<0.005	<1	1.4	<0.5
3485959	Drill Core	55.8	1.0	<0.05	<0.005	<1	<0.5	<0.5
REP 3485959	QC	54.7	1.2	<0.05	<0.005	<1	<0.5	<0.5
3485963	Drill Core	59.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
REP 3485963	QC							
3485991	Drill Core	52.1	0.9	<0.05	<0.005	1	<0.5	<0.5
REP 3485991	QC							
3485994	Drill Core	60.6	1.2	<0.05	<0.005	<1	<0.5	<0.5
REP 3485994	QC	60.1	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486015	Drill Core	50.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
REP 3486015	QC							
Core Reject Duplicates								
3485899	Drill Core	43.3	1.2	0.06	<0.005	<1	<0.5	<0.5
DUP 3485899	QC	41.5	1.2	0.05	<0.005	<1	0.6	<0.5
3485933	Drill Core	85.6	0.7	<0.05	<0.005	<1	<0.5	<0.5
DUP 3485933	QC	95.1	0.8	<0.05	<0.005	<1	0.5	<0.5
3485967	Drill Core	54.5	0.9	<0.05	<0.005	<1	<0.5	<0.5
DUP 3485967	QC	55.7	0.9	<0.05	<0.005	<1	0.6	<0.5
3486001	Drill Core	65.8	0.7	<0.05	<0.005	1	<0.5	<0.5
DUP 3486001	QC	66.1	0.7	<0.05	<0.005	<1	<0.5	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	61.6	4.3	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	60.2	4.3	0.07	<0.005	3	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.2	34.1	25.5	52	<0.1	47.2	7.6	497	6.78	10	2.8	16.3	55	<0.1	0.6	0.4	159	0.30
STD OREAS25A-4A	Standard			2.2	37.4	29.5	52	<0.1	51.7	8.5	490	6.67	11	2.7	15.3	49	<0.1	0.7	0.4	160	0.29
STD OREAS45H	Standard			1.6	799.2	13.2	40	0.1	452.1	97.8	409	21.63	17	1.8	8.1	30	<0.1	0.6	0.2	278	0.14
STD OREAS45E	Standard			2.4	779.9	20.3	52	0.3	482.1	62.0	595	24.78	20	2.7	14.0	18	<0.1	1.1	0.4	330	0.06
STD OREAS45H	Standard			1.4	785.1	13.3	47	0.1	446.3	91.9	401	20.77	16	1.8	8.1	33	<0.1	0.6	0.2	274	0.14
STD OREAS45E	Standard			2.5	791.9	18.5	51	0.3	480.5	65.5	562	25.25	18	2.6	12.6	19	<0.1	1.1	0.4	330	0.06
STD OXB130	Standard		0.118																		
STD OXB130	Standard		0.120																		
STD OXB130	Standard		0.122																		
STD OXG141	Standard		0.966																		
STD OXG141	Standard		0.926																		
STD OXG141	Standard		0.932																		
STD OXN155	Standard		7.728																		
STD OXN155	Standard		7.648																		
STD OXN155	Standard		7.761																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	2	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	2	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.050	21.9	112	0.33	162	0.913	9.27	0.136	0.51	2.0	165.0	51	4.4	11.2	20.5	1.5	1	13	38.8	<0.1
STD OREAS25A-4A	Standard	0.052	25.0	122	0.34	153	0.901	9.13	0.132	0.48	1.7	143.7	51	4.3	11.3	18.9	1.3	<1	13	38.3	<0.1
STD OREAS45H	Standard	0.025	14.2	689	0.28	351	0.872	8.67	0.107	0.23	0.9	129.2	26	1.8	10.3	14.8	1.0	1	61	14.8	<0.1
STD OREAS45E	Standard	0.033	11.1	1010	0.16	264	0.523	7.11	0.056	0.33	1.0	92.1	24	1.4	7.6	6.0	0.5	<1	94	6.5	<0.1
STD OREAS45H	Standard	0.023	13.2	633	0.25	376	0.857	8.30	0.084	0.21	0.9	134.7	27	2.3	10.9	14.9	1.0	1	62	15.1	<0.1
STD OREAS45E	Standard	0.037	12.6	1063	0.17	268	0.516	7.05	0.058	0.37	0.9	90.4	26	1.4	8.5	6.4	0.5	<1	100	7.3	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	68.2	4.2	0.07	<0.005	<1	<0.5	<0.5
STD OREAS25A-4A	Standard	58.1	3.9	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	24.1	3.6	0.11	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	20.8	2.8	0.11	<0.005	4	<0.5	<0.5
STD OREAS45H	Standard	25.0	4.0	0.15	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.6	2.7	0.19	<0.005	2	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	3	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	4	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							

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Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	1.1	2.6	2.3	33	<0.1	0.8	3.9	587	1.99	3	1.4	3.3	211	<0.1	0.2	<0.1	30	1.51
ROCK-VAN	Prep Blank		<0.005	1.0	3.2	2.7	30	<0.1	0.8	3.5	549	1.88	4	1.4	3.4	197	<0.1	0.2	<0.1	28	1.29

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Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.034	13.6	4	0.46	649	0.202	6.97	3.463	1.33	0.3	50.5	25	0.8	16.1	5.8	0.4	<1	6	2.7	<0.1
ROCK-VAN	Prep Blank	0.033	13.2	4	0.43	724	0.187	6.84	3.391	1.46	0.2	50.3	25	0.7	15.5	5.8	0.4	<1	6	2.6	<0.1

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Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001191.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	29.1	1.9	<0.05	<0.005	1	<0.5	<0.5
ROCK-VAN	Prep Blank	31.0	1.8	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
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Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 25, 2020
Analysis Start:	July 13, 2020
Report Date:	July 24, 2020
Page:	1 of 6

CERTIFICATE OF ANALYSIS VAN20001199.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_06
P.O. Number	M22165
Number of Samples:	144

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	133	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	4	Split samples by riffle splitter			VAN
PUL85	4	Pulverize to 85% passing 200 mesh			VAN
SLBHP	7	Sort, label and box pulps			VAN
FA430	144	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	144	Environmental disposal charge-Fire assay lead waste			VAN
MA200	144	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
TC000	1	Analysis by Leco	0.1	Completed	VAN
EX001	144	Special handling charge			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486025	Drill Core	3.50	0.012	1.6	92.3	7.3	169	0.2	18.0	20.4	1778	7.48	8	0.9	2.0	309	<0.1	1.1	<0.1	333	1.96
3486026	Drill Core	4.24	0.009	2.3	104.1	8.2	125	0.2	20.5	23.8	1544	7.22	6	0.9	2.2	477	0.2	1.4	<0.1	318	2.99
3486027	Drill Core	2.97	0.009	2.3	120.6	8.3	137	0.2	27.7	26.1	1690	7.67	6	0.9	2.0	555	0.2	1.4	<0.1	308	3.83
3486028	Drill Core	3.62	0.013	2.5	162.2	6.3	106	0.2	27.8	22.2	1633	7.59	5	0.8	1.3	331	0.1	1.0	<0.1	271	3.51
3486029	Drill Core	4.46	0.015	1.3	148.7	5.0	79	0.2	30.6	36.4	1406	7.09	4	0.8	1.5	334	<0.1	1.0	<0.1	256	3.71
3486030	Rock	1.31	<0.005	<0.1	0.4	0.3	5	<0.1	<0.1	0.8	160	0.13	1	0.2	<0.1	71	<0.1	<0.1	<0.1	<1	31.61
3486031	Drill Core	4.62	0.017	1.5	168.5	5.1	80	0.2	32.9	37.9	1666	7.19	4	0.8	1.5	360	<0.1	1.1	<0.1	262	4.25
3486032	Drill Core	4.46	0.020	5.6	171.1	8.2	36	0.2	25.3	29.8	736	8.59	5	0.7	1.4	1134	<0.1	2.5	<0.1	226	5.01
3486033	Drill Core	4.26	0.028	5.4	162.4	5.1	70	0.2	37.9	37.8	1117	8.32	5	0.8	1.4	430	<0.1	1.2	<0.1	280	3.54
3486034	Drill Core	4.37	0.036	4.5	115.7	8.0	71	0.2	20.4	32.9	1165	7.11	7	1.0	2.1	537	<0.1	1.1	<0.1	196	3.56
3486035	Core DUP		0.042	4.4	113.0	7.8	70	0.2	19.9	32.1	1160	7.07	6	1.0	2.2	542	<0.1	1.1	<0.1	195	3.51
3486036	Drill Core	2.10	0.033	3.4	210.4	4.8	93	0.2	39.1	44.4	1482	7.83	4	0.6	1.2	318	<0.1	0.9	<0.1	264	3.58
3486037	Drill Core	3.70	0.031	2.4	278.8	4.7	123	0.3	45.3	55.7	1855	8.50	5	0.6	1.1	275	0.2	0.8	<0.1	286	3.44
3486038	Drill Core	1.94	0.011	0.7	277.4	4.9	76	0.4	14.0	38.8	1336	7.90	5	0.5	1.3	746	<0.1	1.9	<0.1	322	4.23
3486039	Drill Core	2.20	0.010	0.9	53.3	2.5	130	<0.1	54.3	45.7	1648	8.00	7	0.6	1.5	243	<0.1	0.6	<0.1	314	2.92
3486040	Rock Pulp	0.13	0.216	95.9	2693.7	20.2	79	0.5	64.0	15.1	547	4.31	19	5.1	17.8	300	<0.1	1.9	0.6	124	2.55
3486041	Drill Core	3.07	0.006	0.7	104.7	2.5	135	<0.1	55.2	46.7	1789	8.07	3	0.5	1.6	268	0.1	0.5	<0.1	293	2.95
3486042	Drill Core	3.50	0.005	0.7	171.3	5.0	94	0.2	18.2	40.5	1487	8.66	6	0.6	1.3	658	<0.1	1.3	<0.1	387	5.06
3486043	Drill Core	2.55	<0.005	0.7	202.2	5.1	143	0.2	47.3	53.8	2020	9.62	5	0.5	1.3	664	0.1	1.1	<0.1	339	4.88
3486044	Drill Core	4.16	0.009	1.1	126.4	4.2	135	0.1	35.4	39.9	1736	7.79	4	0.6	1.7	376	0.2	0.6	<0.1	287	3.00
3486045	Drill Core	4.87	0.008	0.9	218.1	3.9	125	0.2	35.8	49.5	1683	9.17	4	0.5	1.3	484	0.2	0.8	<0.1	385	4.27
3486046	Drill Core	4.23	0.009	1.3	106.6	4.5	154	0.1	40.5	36.0	1499	7.38	4	0.8	1.8	383	0.4	0.6	<0.1	289	3.87
3486047	Drill Core	4.74	0.013	2.3	105.7	5.4	74	0.2	22.1	27.5	1180	6.69	8	0.9	1.5	289	<0.1	0.7	<0.1	397	2.85
3486048	Drill Core	5.12	0.013	2.4	275.4	4.7	77	0.3	26.2	47.6	1475	7.87	7	0.8	1.5	493	<0.1	1.6	<0.1	347	5.02
3486049	Drill Core	5.62	0.013	2.2	335.0	4.9	74	0.4	23.8	45.6	1615	8.72	5	0.5	1.0	596	<0.1	1.7	<0.1	412	6.63
3486050	Rock	1.27	<0.005	<0.1	0.6	0.3	2	<0.1	<0.1	0.8	146	0.10	6	<0.1	<0.1	73	<0.1	<0.1	<0.1	<1	32.22
3486051	Drill Core	5.01	0.015	3.8	170.6	5.9	60	0.2	16.1	37.1	1336	7.79	5	0.5	0.8	460	<0.1	1.5	<0.1	243	4.18
3486052	Drill Core	5.37	0.013	4.2	124.4	6.1	50	0.2	13.9	33.9	1289	7.72	4	0.7	1.4	697	<0.1	1.5	<0.1	210	5.34
3486053	Drill Core	5.00	0.019	4.7	59.1	7.5	51	0.1	20.1	36.8	1140	7.17	3	1.1	2.0	682	0.2	1.8	<0.1	259	4.55
3486054	Drill Core	4.83	0.012	4.6	39.7	6.9	46	0.1	22.5	36.3	1114	6.67	5	1.1	2.0	616	<0.1	1.9	<0.1	261	3.92

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486025	Drill Core	0.122	9.6	92	2.99	1228	0.412	7.43	1.595	2.48	1.4	11.0	18	0.8	13.9	3.6	0.3	<1	33	20.8	<0.1
3486026	Drill Core	0.120	11.4	82	2.73	1476	0.419	7.43	1.728	2.37	0.8	19.0	20	0.7	16.0	3.9	0.3	<1	31	15.5	0.1
3486027	Drill Core	0.126	11.0	106	3.08	1172	0.434	7.85	1.973	1.86	0.7	22.6	19	0.9	17.8	4.0	0.3	<1	31	15.0	0.1
3486028	Drill Core	0.110	7.4	124	3.86	847	0.395	7.41	1.883	1.74	0.6	24.0	14	1.0	14.1	2.9	0.3	<1	33	17.7	0.7
3486029	Drill Core	0.109	7.3	96	3.98	702	0.381	7.17	1.618	1.94	0.7	24.7	14	1.1	12.9	2.9	0.3	<1	34	19.6	1.7
3486030	Rock	0.006	1.0	2	3.29	10	0.004	0.05	0.029	0.01	<0.1	1.2	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.2	<0.1
3486031	Drill Core	0.106	7.4	92	4.21	700	0.387	7.23	1.484	2.32	0.7	24.9	14	1.1	13.3	3.2	0.3	<1	33	17.8	1.7
3486032	Drill Core	0.102	7.0	101	1.50	483	0.354	6.99	1.255	1.59	1.5	16.8	13	1.3	12.1	3.0	0.3	<1	22	9.9	1.8
3486033	Drill Core	0.127	7.1	111	3.16	710	0.380	7.44	2.008	1.80	1.4	18.9	13	1.1	12.9	2.9	0.3	<1	34	18.9	1.0
3486034	Drill Core	0.174	12.0	60	2.71	658	0.340	8.61	2.128	3.23	1.2	16.3	21	0.9	15.1	5.1	0.4	<1	23	19.9	1.6
3486035	Core DUP	0.174	13.4	59	2.68	840	0.332	8.50	2.134	3.24	1.2	15.7	23	0.8	15.5	4.9	0.4	<1	23	19.8	1.5
3486036	Drill Core	0.116	7.5	107	4.26	149	0.386	7.40	2.693	1.25	1.0	15.8	14	1.0	13.2	3.0	0.3	<1	36	20.5	2.6
3486037	Drill Core	0.110	7.5	128	4.64	234	0.376	7.20	2.544	1.03	1.0	16.4	14	0.8	13.6	2.4	0.2	<1	41	19.8	2.2
3486038	Drill Core	0.128	6.3	17	2.41	1471	0.500	8.77	2.401	3.08	0.9	11.3	12	0.7	12.0	3.3	0.3	<1	22	12.0	<0.1
3486039	Drill Core	0.109	8.9	163	4.51	546	0.434	7.30	2.404	0.95	0.6	11.1	16	0.9	14.9	3.7	0.3	<1	37	21.3	<0.1
3486040	Rock Pulp	0.093	32.3	82	1.46	971	0.479	7.29	2.165	3.47	4.2	75.1	66	3.0	21.1	16.3	1.3	3	12	33.6	0.3
3486041	Drill Core	0.120	10.7	161	4.61	639	0.440	7.46	2.182	1.13	0.5	10.4	20	0.7	15.3	3.9	0.3	<1	34	21.5	<0.1
3486042	Drill Core	0.127	7.2	22	2.98	1175	0.548	8.28	2.046	2.42	0.6	15.1	14	0.8	14.3	3.8	0.3	<1	28	12.9	<0.1
3486043	Drill Core	0.112	12.7	129	4.22	745	0.457	8.00	1.641	1.48	0.8	11.4	23	0.8	16.1	3.3	0.3	<1	22	20.9	<0.1
3486044	Drill Core	0.148	12.1	102	3.44	1102	0.436	8.07	2.442	1.93	0.6	10.1	22	0.7	16.5	4.1	0.3	<1	28	20.4	0.5
3486045	Drill Core	0.090	7.3	92	3.73	768	0.486	7.80	1.836	1.83	0.4	14.9	14	0.7	12.7	3.1	0.2	<1	29	17.0	0.5
3486046	Drill Core	0.125	9.4	124	3.86	1201	0.418	7.52	1.869	1.86	0.3	15.3	17	0.6	14.5	4.2	0.3	<1	30	19.3	0.8
3486047	Drill Core	0.129	6.8	65	2.62	40	0.431	7.35	1.526	2.94	0.8	20.2	14	0.9	11.8	3.8	0.3	<1	27	23.3	2.9
3486048	Drill Core	0.120	7.9	58	3.02	177	0.434	7.68	1.790	2.30	0.6	18.7	14	0.9	12.2	3.8	0.3	<1	28	14.9	2.3
3486049	Drill Core	0.091	5.6	41	3.19	534	0.513	8.52	1.458	1.95	0.5	16.1	11	0.9	11.0	2.7	0.2	<1	28	13.4	2.1
3486050	Rock	0.005	1.0	1	2.42	9	0.004	0.05	0.027	<0.01	<0.1	1.1	<1	<0.1	1.7	<0.1	<0.1	<1	<1	0.9	<0.1
3486051	Drill Core	0.160	6.6	26	2.35	99	0.382	8.13	1.992	2.56	0.6	14.3	13	0.7	11.7	3.4	0.3	<1	19	14.8	3.7
3486052	Drill Core	0.158	9.8	21	2.09	107	0.365	8.58	2.347	2.28	0.8	13.3	17	0.6	12.9	4.0	0.3	<1	18	12.2	4.1
3486053	Drill Core	0.146	11.1	41	2.04	65	0.431	8.30	2.403	1.85	0.8	16.5	21	1.3	18.0	5.2	0.3	1	24	13.0	4.0
3486054	Drill Core	0.140	9.9	61	1.89	68	0.408	7.69	2.016	2.98	1.4	15.0	20	1.3	17.1	4.9	0.2	2	27	11.6	3.8

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3486025	Drill Core	46.8	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486026	Drill Core	59.1	0.8	<0.05	<0.005	3	<0.5	<0.5	
3486027	Drill Core	55.7	0.9	<0.05	0.012	2	<0.5	<0.5	
3486028	Drill Core	53.4	1.0	<0.05	0.007	4	<0.5	<0.5	
3486029	Drill Core	67.2	0.9	<0.05	<0.005	5	<0.5	0.5	
3486030	Rock	0.2	<0.1	<0.05	<0.005	2	<0.5	<0.5	
3486031	Drill Core	71.9	0.9	<0.05	<0.005	5	<0.5	0.5	
3486032	Drill Core	38.4	0.7	<0.05	0.006	12	<0.5	<0.5	
3486033	Drill Core	54.1	0.7	<0.05	<0.005	4	<0.5	<0.5	
3486034	Drill Core	76.7	0.6	<0.05	0.018	4	<0.5	0.6	
3486035	Core DUP	91.6	0.6	<0.05	0.014	4	<0.5	0.5	
3486036	Drill Core	36.6	0.6	<0.05	0.016	8	<0.5	<0.5	
3486037	Drill Core	27.2	0.7	<0.05	0.006	6	<0.5	<0.5	
3486038	Drill Core	76.3	0.5	<0.05	<0.005	1	<0.5	<0.5	
3486039	Drill Core	25.2	0.6	0.07	<0.005	<1	<0.5	<0.5	
3486040	Rock Pulp	190.7	2.3	0.06	<0.005	2	<0.5	1.0	
3486041	Drill Core	29.8	0.5	0.07	<0.005	<1	<0.5	<0.5	
3486042	Drill Core	53.1	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486043	Drill Core	22.9	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486044	Drill Core	42.2	0.4	<0.05	<0.005	2	<0.5	<0.5	
3486045	Drill Core	43.7	0.6	0.05	<0.005	1	<0.5	<0.5	
3486046	Drill Core	45.2	0.6	0.07	<0.005	2	<0.5	<0.5	
3486047	Drill Core	61.1	0.7	<0.05	<0.005	4	<0.5	<0.5	
3486048	Drill Core	47.8	0.7	<0.05	0.006	4	<0.5	<0.5	
3486049	Drill Core	56.8	0.6	<0.05	0.025	6	<0.5	<0.5	
3486050	Rock	0.1	<0.1	<0.05	<0.005	2	<0.5	<0.5	
3486051	Drill Core	44.8	0.5	<0.05	0.042	9	<0.5	<0.5	
3486052	Drill Core	59.7	0.5	<0.05	0.008	8	<0.5	<0.5	
3486053	Drill Core	44.9	0.7	<0.05	0.010	7	<0.5	<0.5	
3486054	Drill Core	60.7	0.6	<0.05	0.009	6	<0.5	<0.5	

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Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486055	Drill Core	4.98	0.013	5.3	73.8	7.8	74	<0.1	17.1	29.9	1218	6.59	8	0.9	1.7	478	0.1	1.6	<0.1	271	4.07
3486056	Drill Core	4.39	0.042	5.3	91.5	8.9	85	0.2	15.1	32.3	1123	6.51	18	0.7	1.2	428	1.2	2.2	<0.1	209	4.12
3486057	Drill Core	3.92	0.013	1.8	275.3	5.6	86	0.3	24.2	49.8	1568	7.83	8	0.6	1.3	609	<0.1	2.4	<0.1	324	6.50
3486058	Drill Core	3.82	0.023	1.7	469.5	5.6	100	0.4	26.5	63.5	1797	9.00	13	0.7	1.4	476	<0.1	2.0	<0.1	402	6.23
3486059	Drill Core	5.06	0.010	1.3	439.5	5.4	110	0.4	24.2	67.4	1620	9.98	6	0.5	1.0	630	<0.1	2.4	<0.1	350	5.37
3486060	Rock Pulp	0.13	0.630	345.9	5229.9	21.7	77	1.3	34.3	17.2	537	4.73	66	4.8	17.6	345	0.5	3.6	1.7	119	2.53
3486061	Drill Core	4.91	0.012	2.1	419.0	4.7	113	0.4	40.3	56.1	1911	9.27	6	0.6	1.4	460	0.2	1.9	<0.1	360	6.06
3486062	Drill Core	5.08	0.010	1.4	289.3	7.1	94	0.3	18.9	49.9	1518	8.35	7	0.7	1.3	941	<0.1	3.5	<0.1	409	6.80
3486063	Drill Core	5.09	0.010	1.2	257.8	7.3	89	0.2	17.7	48.4	1598	8.43	9	0.6	1.2	982	0.1	4.1	<0.1	410	6.78
3486064	Drill Core	5.01	0.013	11.5	322.4	8.4	109	0.3	46.2	59.6	1837	8.65	6	0.8	1.0	649	0.2	4.4	<0.1	280	6.33
3486065	Drill Core	4.42	0.007	1.4	107.3	3.7	126	0.1	33.1	35.4	2076	7.86	4	0.7	1.7	427	0.2	1.7	<0.1	321	3.87
3486066	Drill Core	4.85	0.008	1.6	167.0	5.0	137	0.2	23.0	40.0	1927	8.20	4	0.6	1.2	508	0.2	1.3	<0.1	291	4.50
3486067	Drill Core	5.20	0.008	1.7	170.6	6.1	127	0.2	20.6	41.1	1819	8.13	4	0.7	1.4	615	<0.1	1.6	<0.1	281	4.49
3486068	Drill Core	4.96	0.013	1.3	289.4	7.4	124	0.3	22.7	53.8	1772	8.83	6	0.6	1.1	590	0.1	2.0	<0.1	305	6.07
3486069	Drill Core	5.00	0.013	11.1	449.1	6.9	151	0.4	24.3	61.5	1814	9.49	5	0.5	1.1	550	<0.1	1.7	<0.1	267	5.61
3486070	Rock	1.55	<0.005	0.1	1.8	0.7	3	<0.1	0.7	0.4	155	0.14	7	0.2	<0.1	83	<0.1	<0.1	<0.1	<1	32.31
3486071	Drill Core	5.55	0.011	1.6	525.4	9.5	151	0.5	23.1	63.9	1803	9.25	7	0.5	1.1	567	0.3	1.9	<0.1	308	5.71
3486072	Drill Core	5.55	0.014	1.8	446.9	11.8	135	0.5	20.3	60.9	1790	9.47	6	0.5	1.1	682	0.2	2.3	<0.1	279	6.03
3486073	Drill Core	5.17	0.010	1.9	357.6	6.6	128	0.4	24.0	50.7	1991	8.27	5	0.6	1.1	490	0.3	1.5	<0.1	215	5.58
3486074	Drill Core	5.00	0.010	1.7	543.7	9.5	126	0.5	23.3	51.0	1839	9.58	7	0.4	0.8	959	0.3	2.7	<0.1	304	6.47
3486075	Core DUP		0.011	1.5	525.7	9.6	116	0.6	23.1	51.4	1835	9.43	6	0.4	0.9	949	0.4	2.7	<0.1	298	6.43
3486076	Drill Core	5.36	0.060	1.7	351.0	9.1	127	0.4	22.6	46.5	1725	8.47	7	0.6	1.3	946	0.2	2.6	<0.1	291	6.54
3486077	Drill Core	5.37	0.021	1.7	385.3	8.2	114	0.4	18.2	45.3	1841	9.27	6	0.7	1.3	907	0.3	2.8	<0.1	373	7.31
3486078	Drill Core	5.21	0.021	1.7	292.6	8.4	104	0.3	18.6	35.1	1542	7.78	8	0.6	1.3	839	0.1	2.2	<0.1	272	6.33
3486079	Drill Core	4.34	0.009	2.2	255.5	6.4	113	0.3	27.6	40.1	1404	8.09	6	0.5	1.0	494	0.5	1.3	<0.1	235	4.81
3486080	Rock Pulp	0.11	0.308	11.4	2300.4	6.7	58	0.5	12.2	15.2	654	5.58	17	1.2	1.8	502	0.2	1.3	0.2	224	2.79
3486081	Drill Core	4.76	0.010	1.6	215.8	6.7	131	0.2	49.1	42.2	1510	7.70	5	0.7	1.3	434	0.5	1.5	<0.1	297	5.10
3486082	Drill Core	4.89	0.009	2.7	244.9	8.3	105	0.3	25.3	41.8	1328	8.17	6	0.5	1.1	698	0.4	1.9	<0.1	289	5.86
3486083	Drill Core	4.78	0.008	2.6	226.1	9.4	115	0.3	15.0	37.3	1169	8.16	7	0.6	1.1	667	0.3	2.1	<0.1	313	4.01
3486084	Drill Core	4.98	0.013	4.0	218.3	9.3	105	0.3	15.2	38.6	1141	8.52	7	0.7	1.5	610	0.1	2.3	<0.1	257	5.13

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486055	Drill Core	0.166	10.4	37	2.43	130	0.414	8.24	2.167	2.45	1.2	11.3	20	1.0	16.4	4.7	0.3	<1	23	17.3	3.3
3486056	Drill Core	0.107	6.4	30	2.20	306	0.299	6.70	1.286	1.56	1.3	11.8	13	0.6	12.8	2.9	0.2	1	19	16.4	3.8
3486057	Drill Core	0.094	6.5	52	3.16	428	0.451	7.63	1.297	1.50	1.1	12.7	13	0.8	14.0	3.3	0.2	<1	30	14.4	2.8
3486058	Drill Core	0.091	5.3	55	3.57	319	0.536	6.78	1.245	1.25	1.2	18.3	12	0.9	16.7	3.7	0.2	<1	37	16.8	3.0
3486059	Drill Core	0.083	4.5	43	3.17	258	0.471	8.22	1.393	1.96	0.8	17.4	10	0.7	12.7	3.2	0.2	<1	26	15.3	2.3
3486060	Rock Pulp	0.107	34.9	67	1.39	572	0.486	7.23	2.115	3.53	3.1	81.2	67	3.8	23.9	19.1	1.3	2	12	30.7	0.7
3486061	Drill Core	0.096	7.3	102	3.95	246	0.482	7.59	1.479	1.67	0.7	17.2	14	0.9	14.6	3.8	0.2	<1	35	16.8	2.2
3486062	Drill Core	0.081	5.9	22	2.68	324	0.551	8.77	1.946	1.50	0.9	15.1	11	0.9	13.7	3.8	0.2	1	28	14.2	2.2
3486063	Drill Core	0.074	5.3	21	2.75	278	0.557	8.82	1.628	2.23	0.6	15.6	10	0.8	12.3	3.6	0.2	<1	27	13.2	2.2
3486064	Drill Core	0.119	8.0	92	3.68	91	0.423	8.32	1.497	2.30	1.2	11.5	16	0.7	13.0	3.1	0.1	<1	25	21.4	3.6
3486065	Drill Core	0.168	11.1	106	3.84	591	0.451	7.85	2.029	1.97	0.7	12.8	21	0.8	17.4	3.9	0.2	<1	33	18.9	1.8
3486066	Drill Core	0.164	10.7	59	3.31	259	0.423	8.61	2.094	1.96	0.4	12.0	20	0.7	16.1	3.9	0.2	<1	24	19.7	2.6
3486067	Drill Core	0.168	11.3	45	3.02	77	0.423	8.75	2.816	1.56	0.5	12.2	22	0.6	15.9	4.2	0.2	<1	21	16.8	3.7
3486068	Drill Core	0.126	9.4	46	3.29	109	0.378	8.36	1.601	1.77	0.7	10.7	17	0.7	13.2	3.4	0.2	<1	20	20.7	3.7
3486069	Drill Core	0.108	8.2	41	3.88	131	0.365	8.29	1.650	1.92	0.5	12.7	16	0.6	12.6	3.1	0.2	<1	20	21.8	4.5
3486070	Rock	0.007	1.3	2	3.26	17	0.005	0.06	0.032	0.01	<0.1	1.4	1	<0.1	2.5	0.2	<0.1	<1	<1	0.8	<0.1
3486071	Drill Core	0.077	6.4	39	3.57	312	0.426	8.48	1.676	2.36	0.4	15.0	13	0.5	11.3	3.2	0.2	<1	20	22.2	3.2
3486072	Drill Core	0.095	7.0	22	3.08	171	0.398	8.50	1.539	2.30	0.5	15.0	14	0.7	12.5	3.4	0.2	<1	22	18.9	3.9
3486073	Drill Core	0.110	7.8	33	4.38	86	0.378	7.61	1.670	1.92	0.5	16.4	15	0.7	15.0	4.0	0.2	<1	26	19.2	3.8
3486074	Drill Core	0.139	9.5	38	3.71	525	0.438	7.88	1.299	1.09	0.5	11.3	19	0.6	15.5	3.9	0.2	<1	28	14.4	4.0
3486075	Core DUP	0.145	9.8	41	3.68	425	0.445	7.92	1.295	1.11	0.7	11.6	19	0.6	16.6	4.0	0.2	1	28	15.9	4.0
3486076	Drill Core	0.167	10.0	50	3.13	912	0.492	8.38	1.970	1.53	0.8	15.5	19	1.0	17.6	4.2	0.2	<1	24	14.0	1.3
3486077	Drill Core	0.128	7.3	30	3.03	639	0.536	7.66	1.735	1.29	0.7	15.3	16	1.2	17.1	4.3	0.2	2	30	11.0	1.8
3486078	Drill Core	0.179	9.6	50	2.93	647	0.484	8.39	2.123	1.59	0.8	12.6	19	1.0	17.0	3.4	0.2	1	24	16.2	1.9
3486079	Drill Core	0.205	11.4	63	3.13	72	0.368	8.51	2.618	2.19	0.6	11.3	23	0.6	17.8	3.1	0.2	<1	27	21.7	4.8
3486080	Rock Pulp	0.117	10.9	26	1.22	1417	0.327	8.27	3.450	5.34	0.9	40.4	21	2.4	19.7	2.8	0.2	1	10	12.5	0.2
3486081	Drill Core	0.176	9.3	113	3.72	115	0.437	8.11	2.148	1.93	0.7	15.9	19	0.7	15.7	3.4	0.2	1	29	20.0	2.9
3486082	Drill Core	0.185	10.7	57	2.45	95	0.414	8.57	2.232	1.84	0.7	9.9	21	0.8	16.1	3.0	0.2	<1	24	17.1	3.2
3486083	Drill Core	0.216	10.8	12	2.43	66	0.485	8.72	2.746	2.40	1.3	9.4	22	0.7	17.2	4.2	0.2	<1	22	18.1	4.2
3486084	Drill Core	0.189	9.6	11	2.03	41	0.424	8.44	2.888	2.36	2.7	9.4	20	0.7	15.7	4.2	0.2	1	20	17.5	4.9

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3486055	Drill Core	58.3	0.5	<0.05	<0.005	3	<0.5	<0.5	
3486056	Drill Core	40.9	0.5	<0.05	<0.005	4	0.9	<0.5	
3486057	Drill Core	40.3	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486058	Drill Core	34.5	0.8	<0.05	<0.005	2	<0.5	<0.5	
3486059	Drill Core	50.6	0.6	<0.05	<0.005	2	1.5	<0.5	
3486060	Rock Pulp	176.2	2.5	0.09	0.215	3	<0.5	0.9	
3486061	Drill Core	46.1	0.7	0.12	<0.005	3	0.7	<0.5	
3486062	Drill Core	38.2	0.6	0.07	0.006	2	<0.5	<0.5	
3486063	Drill Core	51.6	0.7	<0.05	0.010	2	<0.5	<0.5	
3486064	Drill Core	61.6	0.6	<0.05	0.010	3	<0.5	<0.5	
3486065	Drill Core	59.0	0.6	0.18	<0.005	2	<0.5	<0.5	
3486066	Drill Core	59.0	0.5	0.11	0.015	3	<0.5	<0.5	
3486067	Drill Core	44.8	0.5	<0.05	0.010	4	0.7	<0.5	
3486068	Drill Core	56.9	0.5	0.06	0.015	4	<0.5	<0.5	
3486069	Drill Core	60.1	0.5	<0.05	0.016	6	<0.5	<0.5	
3486070	Rock	0.2	<0.1	<0.05	<0.005	<1	5.0	<0.5	
3486071	Drill Core	63.5	0.7	<0.05	0.013	4	0.7	<0.5	
3486072	Drill Core	65.8	0.6	<0.05	0.013	4	0.6	<0.5	
3486073	Drill Core	50.2	0.6	0.12	0.008	3	<0.5	<0.5	
3486074	Drill Core	28.0	0.5	0.06	0.006	3	0.8	<0.5	
3486075	Core DUP	29.4	0.5	0.08	<0.005	<1	0.6	<0.5	
3486076	Drill Core	35.3	0.7	0.13	<0.005	2	<0.5	<0.5	
3486077	Drill Core	23.5	0.7	0.09	<0.005	3	<0.5	<0.5	
3486078	Drill Core	40.8	0.5	0.08	0.012	3	<0.5	<0.5	
3486079	Drill Core	54.8	0.4	0.13	<0.005	6	<0.5	<0.5	
3486080	Rock Pulp	98.8	1.3	0.12	0.035	3	<0.5	<0.5	
3486081	Drill Core	51.2	0.6	0.13	0.005	3	<0.5	<0.5	
3486082	Drill Core	52.3	0.5	0.07	<0.005	4	0.6	<0.5	
3486083	Drill Core	62.9	0.4	0.07	<0.005	4	<0.5	<0.5	
3486084	Drill Core	46.0	0.4	0.05	<0.005	3	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486085	Drill Core	4.97	0.007	2.7	281.2	10.0	122	0.3	16.5	43.7	1455	9.38	6	1.0	2.0	786	0.1	3.3	<0.1	328	5.31
3486086	Drill Core	4.56	0.013	3.7	291.2	9.0	114	0.3	16.2	48.0	1181	9.20	7	0.8	1.5	582	0.2	2.3	<0.1	272	3.55
3486087	Drill Core	4.59	0.009	2.7	222.5	7.3	94	0.2	12.5	34.4	1165	7.46	8	0.8	1.5	607	0.1	1.8	<0.1	268	3.73
3486088	Drill Core	4.70	0.014	4.1	345.8	9.5	74	0.4	13.3	37.2	1020	8.17	6	1.0	2.3	606	<0.1	1.8	<0.1	258	3.86
3486089	Drill Core	4.90	0.009	3.0	212.2	9.3	87	0.2	13.3	32.7	1039	7.35	6	1.0	2.0	568	<0.1	1.9	<0.1	287	3.66
3486090	Rock	1.34	<0.005	<0.1	1.3	0.5	3	<0.1	0.6	0.7	149	0.10	<1	0.1	<0.1	91	<0.1	<0.1	<0.1	1	32.70
3486091	Drill Core	4.29	0.014	2.4	169.8	9.8	100	0.2	18.2	38.9	1157	8.49	6	1.0	1.8	597	<0.1	3.6	<0.1	285	3.87
3486092	Drill Core	4.44	0.008	3.5	159.1	10.0	92	0.2	12.9	27.2	941	8.01	5	1.0	2.1	631	0.2	1.8	<0.1	318	3.86
3486093	Drill Core	4.32	0.012	3.6	394.8	10.5	82	0.5	17.5	50.4	1001	11.40	6	0.9	2.2	781	0.1	2.1	<0.1	232	4.59
3486094	Drill Core	5.02	0.005	2.2	264.2	6.7	123	0.3	17.0	50.4	1249	9.32	6	0.8	1.8	552	0.1	1.4	<0.1	317	3.42
3486095	Drill Core	5.41	0.012	3.0	187.4	7.4	84	0.2	12.2	36.7	1107	7.81	10	0.8	1.7	523	<0.1	2.0	<0.1	272	3.23
3486096	Drill Core	4.92	0.017	3.7	337.4	10.5	80	0.4	16.8	42.5	1146	8.99	8	0.9	1.7	688	<0.1	2.9	<0.1	280	3.87
3486097	Drill Core	2.84	0.009	2.2	138.4	8.5	102	0.2	12.8	34.6	1317	7.32	5	0.9	1.9	393	0.2	2.3	<0.1	285	3.69
3486098	Drill Core	3.07	0.014	3.9	119.9	9.7	63	0.2	15.0	37.1	949	6.81	12	1.0	2.1	424	0.1	2.7	<0.1	233	4.93
3486099	Drill Core	2.37	0.016	2.4	185.4	4.6	59	0.3	12.6	26.9	758	5.91	5	0.5	1.2	228	0.2	4.8	<0.1	209	5.05
3486100	Rock Pulp	0.13	0.673	335.0	5105.7	21.0	77	1.3	32.3	17.0	539	4.69	64	5.2	17.6	350	0.9	3.3	1.7	113	2.52
3486101	Drill Core	3.08	0.021	5.1	184.8	9.1	30	0.3	13.4	30.7	601	7.78	5	0.8	1.8	288	<0.1	1.8	<0.1	216	4.52
3486102	Drill Core	3.20	0.007	4.2	88.1	10.3	70	0.1	7.4	21.1	810	5.12	6	1.6	3.1	487	0.1	2.1	<0.1	172	2.69
3486103	Drill Core	5.06	0.007	2.2	166.4	9.4	97	0.2	9.3	25.4	1376	6.43	7	1.1	2.3	581	<0.1	2.5	<0.1	219	3.89
3486104	Drill Core	4.55	0.010	2.8	172.1	10.1	69	0.2	13.6	32.4	945	7.22	7	0.9	1.7	555	<0.1	1.9	<0.1	268	3.65
3486105	Drill Core	5.21	0.010	2.7	203.2	8.8	75	0.2	15.9	39.4	899	8.08	6	0.8	1.4	552	<0.1	1.4	<0.1	294	3.52
3486106	Drill Core	4.65	0.007	3.2	192.3	5.8	85	0.2	13.7	33.4	1036	7.62	6	0.7	1.4	606	<0.1	1.5	<0.1	272	4.30
3486107	Drill Core	5.17	0.006	2.2	134.1	5.1	103	0.2	12.2	30.2	1519	7.24	5	0.8	1.7	566	<0.1	1.3	<0.1	269	5.04
3486108	Drill Core	5.02	0.016	2.6	365.7	7.8	91	0.3	15.8	53.4	1159	8.80	9	0.7	1.6	664	0.2	2.4	<0.1	249	4.63
3486109	Drill Core	2.12	0.019	4.4	375.0	11.5	92	0.4	13.3	40.9	1205	8.71	17	0.7	1.4	736	0.1	4.1	<0.1	382	5.43
3486110	Rock	1.46	<0.005	<0.1	3.2	0.5	3	<0.1	8.6	1.9	166	0.16	<1	0.2	<0.1	88	<0.1	<0.1	<0.1	1	31.90
3486111	Drill Core	3.21	0.019	4.6	382.6	10.8	42	0.3	20.4	59.2	693	8.71	10	0.7	1.5	783	<0.1	3.3	<0.1	271	4.69
3486112	Drill Core	3.71	0.020	5.7	192.6	8.6	37	0.3	17.8	49.6	512	7.75	9	0.7	1.6	386	<0.1	1.9	<0.1	222	4.11
3486113	Drill Core	3.18	0.020	5.8	159.9	7.4	25	0.2	15.9	35.3	404	7.24	10	0.8	1.5	416	<0.1	1.3	<0.1	281	2.46
3486114	Drill Core	5.15	0.018	5.6	112.8	9.2	22	0.1	9.6	25.1	375	5.45	13	0.6	1.4	455	<0.1	1.7	<0.1	284	2.35

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486085	Drill Core	0.147	9.5	14	2.47	397	0.470	8.69	1.699	2.38	1.9	16.0	17	1.2	17.0	5.3	0.3	2	26	17.3	2.3
3486086	Drill Core	0.169	9.6	13	2.40	75	0.441	8.52	2.276	2.49	1.5	10.8	19	0.8	15.0	4.1	0.2	<1	21	20.4	4.2
3486087	Drill Core	0.183	10.2	12	2.20	119	0.452	8.43	2.300	2.76	1.2	12.7	20	1.0	17.0	4.8	0.2	<1	21	16.2	2.6
3486088	Drill Core	0.195	11.3	9	1.85	42	0.429	8.24	2.076	2.53	0.7	15.6	23	0.9	19.0	5.2	0.3	1	20	16.6	3.9
3486089	Drill Core	0.184	11.0	10	1.98	44	0.433	8.58	2.152	2.89	0.7	15.7	22	0.8	19.7	4.5	0.3	<1	22	17.0	4.0
3486090	Rock	0.008	1.2	<1	2.91	12	0.006	0.07	0.028	0.01	0.2	1.4	1	0.1	2.4	0.2	<0.1	<1	<1	1.1	<0.1
3486091	Drill Core	0.153	10.3	26	2.17	39	0.425	8.28	2.206	2.61	3.0	13.6	22	1.1	19.4	4.6	0.3	<1	25	18.3	4.3
3486092	Drill Core	0.138	9.9	13	1.58	48	0.442	8.40	2.303	2.83	1.7	15.6	20	1.1	17.8	5.0	0.3	1	21	12.2	3.6
3486093	Drill Core	0.199	14.3	11	1.40	41	0.398	8.07	1.736	2.32	0.9	10.5	29	1.1	20.7	5.0	0.3	<1	20	12.4	5.7
3486094	Drill Core	0.141	7.6	11	2.08	217	0.430	9.20	1.643	3.26	0.7	16.2	15	0.8	13.9	4.3	0.2	<1	19	17.6	2.5
3486095	Drill Core	0.163	7.3	10	1.90	93	0.412	8.71	1.695	3.71	1.2	18.6	15	0.9	14.6	4.8	0.3	<1	18	14.3	2.4
3486096	Drill Core	0.166	9.9	12	1.68	76	0.448	8.49	1.860	2.83	1.4	18.6	20	0.9	17.3	5.0	0.3	<1	20	13.7	3.3
3486097	Drill Core	0.169	10.1	10	2.70	175	0.424	8.14	1.633	2.40	1.2	14.0	20	0.8	16.8	4.9	0.3	1	21	22.6	2.6
3486098	Drill Core	0.188	12.1	17	1.47	124	0.403	8.59	2.694	3.26	1.6	17.3	24	0.8	18.4	5.4	0.4	<1	18	14.5	2.7
3486099	Drill Core	0.145	7.2	16	1.29	62	0.411	7.01	2.021	2.89	27.9	19.6	16	0.8	11.3	5.4	0.4	<1	16	13.1	2.5
3486100	Rock Pulp	0.103	36.3	65	1.40	556	0.486	7.25	2.017	3.28	3.0	78.0	72	3.2	24.8	18.3	1.3	2	11	27.7	0.7
3486101	Drill Core	0.154	8.7	8	0.50	37	0.315	7.51	2.691	3.99	1.9	19.0	18	0.8	15.5	4.5	0.3	<1	17	6.1	5.0
3486102	Drill Core	0.125	9.7	12	1.33	68	0.301	8.20	1.730	4.35	1.1	34.5	20	0.8	14.9	7.4	0.5	<1	13	14.1	2.4
3486103	Drill Core	0.173	12.4	9	2.21	101	0.356	8.38	1.597	3.53	0.5	15.0	24	0.8	18.3	4.9	0.3	<1	17	15.6	2.6
3486104	Drill Core	0.158	9.2	10	1.63	42	0.411	8.09	2.013	3.11	0.7	13.2	19	0.6	17.1	4.6	0.3	<1	22	15.0	4.2
3486105	Drill Core	0.181	9.9	13	2.02	115	0.485	8.80	2.395	2.56	0.6	15.6	20	0.8	17.2	4.9	0.3	1	22	18.2	2.8
3486106	Drill Core	0.187	8.7	12	2.13	213	0.452	8.76	2.259	2.74	0.5	17.3	18	0.7	16.3	4.9	0.2	1	22	14.8	2.1
3486107	Drill Core	0.175	10.0	11	2.61	574	0.395	8.72	2.117	2.42	0.6	10.5	20	0.6	16.3	4.3	0.3	<1	21	14.2	1.7
3486108	Drill Core	0.159	9.8	11	2.09	73	0.361	8.59	1.696	2.39	0.7	15.3	20	0.7	16.1	4.1	0.2	<1	19	17.8	3.8
3486109	Drill Core	0.129	9.9	9	2.19	113	0.496	8.73	1.978	1.62	1.7	16.0	19	1.1	15.0	4.3	0.2	<1	19	17.7	3.7
3486110	Rock	0.007	1.2	1	2.97	13	0.005	0.06	0.023	0.01	<0.1	1.4	1	<0.1	2.5	0.2	<0.1	<1	<1	0.9	<0.1
3486111	Drill Core	0.216	12.3	13	0.96	37	0.405	8.56	2.339	2.97	1.4	17.1	25	0.7	18.8	3.8	0.2	<1	20	11.3	5.7
3486112	Drill Core	0.229	14.2	10	0.77	30	0.312	8.12	2.207	4.00	2.2	17.9	30	0.6	20.9	3.4	0.2	1	20	12.5	5.6
3486113	Drill Core	0.180	6.4	10	0.83	28	0.414	8.38	2.301	4.49	1.0	17.7	16	0.7	15.1	4.1	0.2	<1	21	11.5	4.8
3486114	Drill Core	0.170	7.0	13	0.56	32	0.453	8.56	1.843	5.63	1.1	17.0	17	0.8	12.2	5.0	0.3	1	19	6.9	3.0

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3486085	Drill Core	65.3	0.6	0.10	<0.005	3	<0.5	<0.5	
3486086	Drill Core	71.9	0.5	0.12	<0.005	5	<0.5	0.5	
3486087	Drill Core	66.4	0.5	0.09	<0.005	3	<0.5	0.5	
3486088	Drill Core	70.7	0.7	<0.05	<0.005	3	<0.5	0.6	
3486089	Drill Core	81.9	0.7	<0.05	<0.005	3	<0.5	0.7	
3486090	Rock	0.4	<0.1	<0.05	<0.005	<1	3.1	<0.5	
3486091	Drill Core	62.8	0.6	0.11	0.010	4	<0.5	0.6	
3486092	Drill Core	58.6	0.7	0.10	0.005	4	<0.5	0.5	
3486093	Drill Core	73.7	0.4	0.08	0.006	6	<0.5	0.5	
3486094	Drill Core	105.1	0.6	0.06	<0.005	2	<0.5	0.9	
3486095	Drill Core	87.5	0.7	<0.05	<0.005	2	<0.5	0.8	
3486096	Drill Core	67.5	0.7	<0.05	<0.005	4	<0.5	0.6	
3486097	Drill Core	74.4	0.6	<0.05	<0.005	2	<0.5	0.5	
3486098	Drill Core	77.3	0.8	<0.05	<0.005	5	<0.5	0.6	
3486099	Drill Core	71.6	0.6	<0.05	<0.005	3	<0.5	0.7	
3486100	Rock Pulp	170.4	2.4	0.11	0.233	3	<0.5	0.8	
3486101	Drill Core	90.4	0.7	<0.05	<0.005	3	<0.5	0.6	
3486102	Drill Core	97.2	1.1	<0.05	<0.005	2	<0.5	0.7	
3486103	Drill Core	110.8	0.6	0.05	<0.005	1	<0.5	0.7	
3486104	Drill Core	84.5	0.5	0.05	<0.005	2	<0.5	0.7	
3486105	Drill Core	64.4	0.6	0.05	<0.005	2	<0.5	0.6	
3486106	Drill Core	68.5	0.7	0.06	<0.005	1	<0.5	0.6	
3486107	Drill Core	53.0	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486108	Drill Core	70.9	0.5	<0.05	<0.005	2	<0.5	0.5	
3486109	Drill Core	37.5	0.5	0.07	<0.005	1	<0.5	<0.5	
3486110	Rock	0.4	<0.1	<0.05	<0.005	<1	0.6	<0.5	
3486111	Drill Core	72.4	0.6	0.07	<0.005	5	<0.5	0.6	
3486112	Drill Core	114.2	0.6	<0.05	<0.005	5	<0.5	0.7	
3486113	Drill Core	95.0	0.7	<0.05	<0.005	2	<0.5	0.9	
3486114	Drill Core	102.9	0.6	<0.05	<0.005	2	<0.5	1.0	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486115	Core DUP		0.018	5.4	115.0	9.5	23	0.1	9.6	24.6	365	5.31	14	0.5	1.4	445	<0.1	1.8	<0.1	276	2.32
3486116	Drill Core	4.65	0.019	4.0	258.1	10.2	48	0.3	15.1	34.4	726	7.82	13	0.7	1.4	499	0.1	1.6	<0.1	260	3.11
3486117	Drill Core	4.74	0.021	3.1	449.8	8.8	48	0.4	19.3	59.7	717	7.48	10	0.7	1.3	450	0.2	1.7	0.1	258	2.87
3486118	Drill Core	4.84	0.020	4.4	187.5	8.8	77	0.2	93.5	42.1	1138	8.07	8	0.7	1.4	671	<0.1	2.0	<0.1	216	5.65
3486119	Drill Core	4.50	0.012	2.7	118.4	10.1	63	0.1	12.8	28.4	652	6.98	8	0.8	1.7	479	0.2	1.1	<0.1	276	2.73
3486120	Rock Pulp	0.11	0.335	9.8	2289.8	6.4	53	0.5	11.2	14.6	656	5.60	15	1.2	1.7	524	0.3	0.8	0.2	222	2.77
3486121	Drill Core	4.82	0.036	6.3	384.1	21.0	91	0.6	15.6	40.0	986	8.30	18	0.6	1.2	404	0.2	2.0	0.2	243	3.82
3486122	Drill Core	4.72	0.020	3.1	151.6	12.6	85	0.2	13.4	33.2	1150	7.18	16	0.8	1.5	477	0.1	2.4	0.1	251	4.30
3486123	Drill Core	2.92	0.036	6.3	97.8	14.0	43	0.2	19.7	48.3	835	9.69	18	0.9	1.4	571	<0.1	2.4	0.2	249	3.71
3486124	Drill Core	4.92	0.007	1.9	122.3	5.2	99	0.1	9.7	28.5	1430	6.41	6	0.8	1.6	658	0.1	1.3	<0.1	252	4.73
3486125	Drill Core	2.55	0.028	1.8	77.0	7.1	84	0.3	8.4	33.5	1486	6.47	13	0.9	1.5	945	0.3	2.0	<0.1	239	6.49
3486126	Drill Core	4.12	0.006	1.5	118.6	4.9	106	0.2	8.9	29.1	1533	6.46	5	0.8	1.7	650	0.2	1.1	<0.1	254	5.62
3486127	Drill Core	2.08	0.036	5.2	83.7	19.6	88	0.2	15.0	37.7	1397	7.49	42	0.8	1.6	461	0.2	2.4	0.4	237	5.25
3486128	Drill Core	3.19	0.013	3.5	156.3	7.7	59	0.2	11.9	31.2	787	6.98	7	0.9	1.8	631	0.1	1.8	<0.1	304	4.03
3486129	Drill Core	4.02	0.011	1.8	155.7	4.9	106	0.2	21.3	38.2	1689	9.00	5	0.7	1.4	492	0.1	1.6	<0.1	349	5.16
3486130	Rock	1.30	<0.005	<0.1	2.5	0.6	4	<0.1	0.7	0.4	142	0.11	2	0.1	<0.1	91	<0.1	<0.1	<0.1	1	33.40
3486131	Drill Core	4.56	0.049	2.1	391.2	6.3	94	0.4	32.9	60.5	1569	9.54	13	0.5	1.0	800	0.2	2.4	<0.1	371	6.18
3486132	Drill Core	4.53	0.014	1.5	238.1	3.6	78	0.3	20.8	40.3	1325	7.50	8	1.1	2.2	664	0.1	1.7	<0.1	265	5.89
3486133	Drill Core	4.49	0.011	1.6	149.4	3.2	90	0.1	23.0	37.4	1532	7.31	4	1.0	1.9	595	0.1	1.5	<0.1	281	6.80
3486134	Drill Core	2.37	0.009	1.7	62.2	3.0	84	<0.1	33.1	44.1	1614	7.56	6	0.9	1.7	611	0.1	1.6	<0.1	294	7.05
3486135	Drill Core	4.31	0.007	1.7	129.8	3.1	80	0.1	32.1	39.4	1583	7.36	4	0.9	1.7	573	0.2	1.4	<0.1	297	6.49
3486136	Drill Core	5.15	0.018	2.2	130.1	10.1	46	0.2	4.7	28.2	1141	5.24	9	1.9	3.2	1308	0.1	1.3	0.1	215	5.76
3486137	Drill Core	2.49	0.006	1.2	129.3	10.6	43	0.1	4.5	13.0	1193	5.25	6	1.7	3.3	1431	<0.1	1.6	<0.1	216	6.36
3486138	Drill Core	3.94	0.007	1.8	82.9	4.6	64	0.1	15.5	25.8	1305	6.02	6	1.2	2.5	773	<0.1	1.5	<0.1	282	5.13
3486139	Drill Core	4.28	0.025	7.1	100.9	5.8	53	0.1	15.5	27.5	688	5.49	4	1.6	2.1	461	0.2	1.2	<0.1	280	2.27
3486140	Rock Pulp	0.13	0.213	94.7	2844.5	25.0	84	0.4	62.0	16.5	572	4.41	20	6.0	22.8	368	0.4	2.5	0.9	124	2.62
3486141	Drill Core	3.89	0.009	1.6	135.0	4.0	61	0.1	5.8	14.0	1072	6.05	5	1.2	2.5	575	<0.1	0.8	<0.1	237	3.96
3486142	Drill Core	5.05	0.008	1.5	133.1	4.5	60	0.1	6.5	26.3	1193	6.12	4	1.1	2.1	767	<0.1	0.9	<0.1	248	5.02
3486143	Drill Core	5.17	0.010	2.6	143.5	5.0	54	0.1	5.6	22.8	1150	5.83	5	1.3	2.1	744	<0.1	1.0	<0.1	232	4.73
3486144	Drill Core	4.28	0.011	3.0	46.7	7.8	33	<0.1	11.9	23.6	783	4.94	9	1.4	3.0	680	<0.1	1.6	0.1	187	3.13

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486115	Core DUP	0.176	7.3	13	0.54	36	0.473	8.42	1.810	5.51	1.1	17.2	17	0.8	12.3	5.0	0.3	<1	20	8.3	2.9
3486116	Drill Core	0.195	7.2	11	1.29	33	0.402	8.57	2.207	4.14	0.9	17.2	17	0.6	15.2	4.3	0.2	1	21	11.7	4.3
3486117	Drill Core	0.162	7.3	11	1.51	26	0.408	8.40	2.598	3.49	0.8	15.5	17	0.7	15.7	3.7	0.2	1	20	13.6	4.9
3486118	Drill Core	0.156	8.0	161	2.86	39	0.349	7.45	1.634	1.62	0.7	14.1	17	0.6	14.6	3.6	0.2	<1	20	16.5	3.5
3486119	Drill Core	0.178	8.7	10	1.38	37	0.407	8.32	2.118	3.72	0.6	15.1	19	0.6	16.7	4.5	0.2	<1	22	15.2	4.0
3486120	Rock Pulp	0.114	11.3	22	1.23	1382	0.328	8.37	3.015	4.77	0.7	39.5	23	2.1	20.4	2.6	0.1	1	10	11.5	0.3
3486121	Drill Core	0.152	6.2	11	1.81	19	0.340	7.66	1.335	3.30	0.7	11.8	15	0.8	14.7	3.5	0.2	<1	17	18.3	6.3
3486122	Drill Core	0.153	7.9	9	2.07	54	0.375	7.44	1.426	2.78	0.8	15.5	18	0.9	15.6	4.3	0.3	<1	19	21.9	4.7
3486123	Drill Core	0.157	5.7	9	0.97	22	0.354	6.55	1.473	3.50	1.3	12.9	14	0.9	13.5	4.1	0.2	1	16	9.5	8.4
3486124	Drill Core	0.210	12.6	14	2.40	1000	0.664	8.50	2.864	2.71	0.6	41.7	28	1.0	22.7	8.3	0.5	2	19	15.2	0.1
3486125	Drill Core	0.176	12.3	14	2.09	999	0.628	8.35	1.911	2.85	0.9	40.7	28	1.2	20.8	7.5	0.5	<1	17	15.9	0.6
3486126	Drill Core	0.203	13.1	14	2.41	1180	0.669	8.61	2.154	3.41	0.6	46.1	29	1.1	23.5	8.3	0.5	1	19	16.0	<0.1
3486127	Drill Core	0.178	6.7	18	1.63	31	0.322	7.17	0.979	3.54	1.1	16.9	16	1.2	14.2	3.4	0.2	<1	22	15.5	5.7
3486128	Drill Core	0.178	9.5	14	1.25	70	0.385	7.92	1.772	3.34	0.7	18.5	20	0.6	16.3	4.1	0.3	<1	26	16.5	4.6
3486129	Drill Core	0.122	8.2	36	4.11	63	0.469	7.16	1.671	1.47	0.6	21.0	18	0.7	16.2	3.7	0.2	1	34	17.3	4.2
3486130	Rock	0.006	1.2	2	2.31	15	0.005	0.07	0.029	0.01	<0.1	1.4	1	<0.1	2.3	0.1	<0.1	<1	<1	0.5	<0.1
3486131	Drill Core	0.110	6.5	48	3.05	553	0.385	8.43	1.135	1.92	0.6	17.6	13	0.6	12.9	2.5	0.2	1	29	18.7	2.9
3486132	Drill Core	0.164	11.2	46	2.84	1079	0.395	8.41	1.800	2.23	0.7	15.5	23	0.7	17.5	4.8	0.3	2	25	15.6	1.0
3486133	Drill Core	0.155	10.1	56	3.63	1170	0.399	7.80	1.581	1.99	0.6	20.3	19	0.8	16.4	4.3	0.2	<1	28	15.9	0.1
3486134	Drill Core	0.153	10.3	82	4.21	757	0.454	7.56	1.805	1.36	0.8	21.7	22	0.8	17.6	4.5	0.3	<1	36	15.7	0.1
3486135	Drill Core	0.135	10.8	100	3.92	949	0.433	7.75	2.019	1.87	0.6	21.6	22	0.7	17.4	4.6	0.3	<1	35	17.3	0.1
3486136	Drill Core	0.213	17.2	2	1.75	1165	0.403	8.95	2.961	2.29	0.8	30.9	35	0.9	17.6	8.7	0.5	2	10	11.0	0.3
3486137	Drill Core	0.202	17.7	4	1.74	1135	0.402	9.06	2.784	2.22	0.6	31.3	34	0.7	17.2	8.9	0.5	2	10	9.6	<0.1
3486138	Drill Core	0.218	14.1	46	2.95	1252	0.397	8.60	2.599	2.73	0.7	30.1	28	0.6	16.4	6.2	0.3	<1	23	13.5	0.2
3486139	Drill Core	0.134	10.1	78	1.46	41	0.413	7.23	1.791	3.66	1.2	19.3	24	0.7	17.7	4.5	0.3	1	26	14.8	3.1
3486140	Rock Pulp	0.107	39.2	86	1.50	1051	0.499	7.22	2.117	3.04	4.1	73.2	79	3.7	27.4	18.6	1.5	3	13	37.7	0.3
3486141	Drill Core	0.214	16.2	3	2.21	2022	0.428	8.16	2.303	3.59	0.8	28.1	33	0.8	20.9	6.8	0.4	1	14	18.6	<0.1
3486142	Drill Core	0.226	13.2	4	2.34	1401	0.467	8.51	2.365	3.25	0.4	35.8	29	0.8	18.8	6.5	0.4	1	14	14.4	<0.1
3486143	Drill Core	0.217	12.9	3	2.14	1531	0.429	8.53	2.691	2.84	0.6	30.1	29	0.9	18.1	7.0	0.4	2	13	16.0	0.1
3486144	Drill Core	0.126	10.6	45	1.31	79	0.315	8.02	2.583	3.10	0.7	12.7	22	0.8	18.2	6.9	0.4	1	18	10.1	1.8

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3486115	Core DUP	102.5	0.6	<0.05	<0.005	2	<0.5	1.0	
3486116	Drill Core	80.6	0.7	0.07	<0.005	5	<0.5	0.9	
3486117	Drill Core	74.1	0.7	<0.05	<0.005	4	<0.5	0.6	
3486118	Drill Core	34.1	0.5	0.07	<0.005	3	<0.5	<0.5	
3486119	Drill Core	83.3	0.5	0.05	<0.005	2	<0.5	0.8	
3486120	Rock Pulp	102.9	1.1	0.13	0.043	2	<0.5	<0.5	
3486121	Drill Core	78.4	0.4	<0.05	0.006	4	0.6	0.6	
3486122	Drill Core	75.4	0.5	0.10	<0.005	2	<0.5	0.8	
3486123	Drill Core	68.5	0.5	<0.05	0.007	5	<0.5	0.7	
3486124	Drill Core	66.2	1.4	<0.05	<0.005	<1	<0.5	<0.5	
3486125	Drill Core	56.9	1.4	<0.05	<0.005	<1	<0.5	<0.5	
3486126	Drill Core	88.5	1.5	<0.05	<0.005	<1	<0.5	0.6	
3486127	Drill Core	91.4	0.6	0.06	<0.005	2	<0.5	0.6	
3486128	Drill Core	100.4	0.6	0.09	<0.005	5	<0.5	0.6	
3486129	Drill Core	44.4	0.9	<0.05	<0.005	2	<0.5	<0.5	
3486130	Rock	0.5	<0.1	<0.05	<0.005	<1	3.0	<0.5	
3486131	Drill Core	67.5	0.7	<0.05	0.006	2	<0.5	<0.5	
3486132	Drill Core	66.8	0.9	0.06	<0.005	<1	<0.5	<0.5	
3486133	Drill Core	50.6	0.9	0.05	<0.005	<1	0.5	<0.5	
3486134	Drill Core	34.7	0.9	0.11	<0.005	<1	1.4	<0.5	
3486135	Drill Core	53.9	1.0	0.06	<0.005	<1	<0.5	<0.5	
3486136	Drill Core	40.2	1.0	<0.05	<0.005	<1	1.1	<0.5	
3486137	Drill Core	38.3	1.0	<0.05	<0.005	<1	<0.5	<0.5	
3486138	Drill Core	63.4	1.2	0.07	<0.005	<1	<0.5	<0.5	
3486139	Drill Core	90.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486140	Rock Pulp	208.2	2.6	0.07	<0.005	<1	<0.5	1.2	
3486141	Drill Core	109.8	0.9	<0.05	<0.005	<1	<0.5	<0.5	
3486142	Drill Core	89.9	1.3	<0.05	<0.005	<1	<0.5	<0.5	
3486143	Drill Core	75.2	1.0	0.06	<0.005	<1	<0.5	<0.5	
3486144	Drill Core	59.3	0.6	<0.05	<0.005	<1	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486145	Drill Core	5.05	0.011	4.4	106.0	6.8	57	0.1	24.7	34.4	700	6.64	5	1.2	2.1	386	0.1	1.1	<0.1	293	2.08
3486146	Drill Core	4.86	0.012	2.4	82.9	4.5	58	<0.1	22.5	30.1	848	7.09	4	1.0	2.2	455	<0.1	1.7	<0.1	256	3.56
3486147	Drill Core	4.70	0.011	1.8	114.7	4.9	70	0.1	26.5	31.2	961	7.20	4	0.9	2.1	512	<0.1	1.5	<0.1	243	3.76
3486148	Drill Core	4.72	0.007	1.2	99.6	9.8	45	<0.1	4.4	20.0	1187	5.14	5	1.6	3.2	1344	<0.1	2.4	<0.1	210	6.00
3486149	Drill Core	5.60	0.007	2.9	106.2	13.0	42	<0.1	4.6	20.1	1221	5.06	8	1.5	3.2	1615	0.1	2.1	<0.1	213	6.42
3486150	Rock	1.41	<0.005	<0.1	1.0	0.4	3	<0.1	<0.1	0.6	138	0.10	4	0.1	<0.1	88	<0.1	<0.1	<0.1	<1	33.34
3486151	Drill Core	4.96	0.007	0.8	120.5	8.7	50	0.1	4.6	18.7	1181	5.01	6	1.5	3.0	1035	0.1	1.8	<0.1	209	4.99
3486152	Drill Core	4.70	0.006	1.1	101.1	8.5	47	<0.1	4.5	19.8	1110	5.12	5	1.6	3.1	1071	0.1	1.9	<0.1	206	4.54
3486153	Drill Core	5.09	0.006	0.6	143.4	9.7	44	0.2	4.8	19.6	1093	5.11	8	1.6	3.4	1261	0.1	1.8	<0.1	205	5.48
3486154	Drill Core	4.71	0.012	1.6	152.4	5.5	59	0.1	25.5	22.3	1020	5.55	5	1.4	2.9	743	0.2	1.0	<0.1	211	4.14
3486155	Core DUP		0.007	1.4	143.8	5.3	56	0.1	26.8	23.1	1025	5.55	5	1.3	2.8	679	<0.1	1.1	<0.1	208	4.15
3486156	Drill Core	2.56	0.010	5.4	69.3	5.7	72	<0.1	55.0	40.1	1005	6.74	5	1.0	2.0	396	<0.1	0.9	0.1	240	2.39
3486157	Drill Core	3.90	0.011	6.4	29.4	7.0	60	<0.1	23.1	38.5	903	6.71	8	1.2	2.3	504	0.1	1.0	<0.1	254	3.10
3486158	Drill Core	4.51	0.010	4.2	44.9	5.5	30	<0.1	8.5	19.0	722	4.34	5	1.0	2.7	511	<0.1	1.0	0.1	146	2.84
3486159	Drill Core	4.56	0.007	2.0	68.4	5.5	35	<0.1	11.4	14.2	734	4.35	5	1.1	3.0	513	<0.1	1.0	0.1	148	2.69
3486160	Rock Pulp	0.13	0.214	95.9	2779.7	21.0	79	0.4	62.0	15.7	561	4.38	20	4.5	17.5	316	0.3	2.1	0.8	126	2.54
3486161	Drill Core	4.36	0.013	5.3	125.8	6.6	56	0.1	20.9	36.4	1021	7.25	5	1.1	2.0	444	<0.1	0.9	0.1	252	2.48
3486162	Drill Core	3.57	0.016	6.1	72.4	7.4	21	0.1	26.4	33.7	371	6.67	6	1.1	2.2	349	0.1	1.1	<0.1	283	1.33
3486163	Drill Core	3.20	0.009	3.0	56.7	8.0	39	0.1	23.7	30.6	399	7.58	4	1.0	1.6	400	<0.1	1.3	<0.1	301	2.00
3486164	Drill Core	2.23	0.012	3.5	103.6	7.3	32	0.1	29.2	35.4	466	8.80	5	1.0	1.6	400	<0.1	1.5	<0.1	303	2.08
3486165	Drill Core	1.33	0.021	9.0	248.2	11.3	19	0.3	88.3	129.8	272	18.09	4	0.6	1.0	114	0.2	1.0	<0.1	285	0.64
3486166	Drill Core	2.41	0.017	3.4	150.4	7.1	21	0.2	10.9	18.0	430	4.65	4	1.2	2.6	465	<0.1	1.3	<0.1	340	1.43
3486167	Drill Core	2.03	0.008	3.4	106.5	7.2	60	0.1	13.1	24.6	815	6.06	5	0.9	2.0	373	0.1	0.9	<0.1	447	1.97
3486168	Drill Core	4.19	0.013	5.4	134.0	6.8	43	0.1	33.9	33.2	705	5.89	6	0.9	2.1	411	<0.1	0.9	<0.1	301	2.22

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486145	Drill Core	0.139	8.2	69	1.66	32	0.314	7.61	1.483	3.12	0.9	13.3	20	0.8	19.9	3.7	0.2	1	29	17.2	4.3
3486146	Drill Core	0.129	8.6	69	2.45	37	0.360	7.33	1.309	2.25	0.5	14.2	19	0.7	17.9	4.2	0.3	1	26	16.0	4.1
3486147	Drill Core	0.140	11.5	83	2.61	51	0.310	7.46	1.664	2.22	0.9	14.5	22	0.7	17.0	4.3	0.3	<1	25	19.5	3.5
3486148	Drill Core	0.213	16.3	3	1.65	1077	0.395	8.79	2.927	2.35	0.6	29.2	34	0.7	17.2	8.6	0.5	1	9	10.6	<0.1
3486149	Drill Core	0.211	17.1	3	1.66	676	0.403	8.98	3.027	1.13	0.8	29.9	32	0.8	17.1	9.1	0.5	2	11	9.4	<0.1
3486150	Rock	0.006	1.4	2	2.46	12	0.005	0.07	0.023	0.01	<0.1	1.3	<1	<0.1	2.2	0.2	<0.1	<1	<1	1.1	<0.1
3486151	Drill Core	0.201	16.0	3	1.73	1408	0.380	8.37	2.906	2.94	0.7	29.4	32	0.8	16.5	8.1	0.5	1	10	11.1	<0.1
3486152	Drill Core	0.207	17.1	2	1.76	1575	0.387	8.55	3.008	3.03	0.6	27.5	33	0.8	17.0	8.5	0.5	2	10	12.7	<0.1
3486153	Drill Core	0.207	17.6	3	1.68	1043	0.387	8.45	2.903	2.50	0.5	27.9	34	0.8	17.3	8.7	0.5	<1	10	10.9	<0.1
3486154	Drill Core	0.212	16.1	47	2.27	1447	0.388	8.52	2.816	3.38	0.7	32.6	33	0.8	17.9	8.0	0.4	1	13	16.5	0.7
3486155	Core DUP	0.193	14.4	48	2.31	1274	0.371	8.44	2.767	3.29	0.6	31.1	29	0.8	16.7	7.4	0.4	2	13	16.1	0.7
3486156	Drill Core	0.151	10.2	102	3.19	63	0.349	7.44	2.037	2.09	0.7	14.2	21	0.9	17.7	3.8	0.2	1	28	28.5	3.4
3486157	Drill Core	0.161	11.1	67	2.43	38	0.370	7.52	2.052	1.83	1.1	12.5	22	1.0	19.1	3.9	0.2	1	28	23.8	3.5
3486158	Drill Core	0.106	7.7	23	1.24	218	0.261	7.53	2.703	3.11	1.0	11.6	17	1.0	14.0	7.1	0.4	2	13	10.6	1.4
3486159	Drill Core	0.124	8.6	25	1.28	1430	0.278	8.23	2.770	3.60	0.6	12.4	19	0.8	14.7	7.9	0.5	2	13	12.0	0.6
3486160	Rock Pulp	0.101	26.4	84	1.49	1016	0.488	6.95	2.051	3.36	4.6	72.0	60	3.4	22.3	18.3	1.3	4	13	36.8	0.3
3486161	Drill Core	0.157	6.8	59	2.02	80	0.371	7.55	2.220	2.46	0.4	11.8	16	1.1	13.9	5.0	0.3	<1	25	22.1	3.0
3486162	Drill Core	0.138	8.5	95	0.49	87	0.329	7.38	1.801	4.09	0.8	13.6	20	0.7	12.9	4.0	0.2	<1	27	9.1	2.0
3486163	Drill Core	0.156	6.4	97	0.66	38	0.379	6.76	1.275	3.81	0.7	10.2	17	0.6	22.3	3.9	0.2	<1	32	11.1	5.1
3486164	Drill Core	0.127	7.1	91	0.72	38	0.366	6.57	1.676	3.11	0.8	10.2	18	0.7	19.7	3.7	0.2	<1	31	12.2	3.9
3486165	Drill Core	0.128	4.3	100	0.38	24	0.274	7.03	0.364	4.31	0.6	8.5	12	0.6	20.2	2.5	0.2	2	30	14.2	>10
3486166	Drill Core	0.148	10.9	84	0.56	268	0.313	8.46	2.566	4.39	0.7	12.1	23	0.6	12.5	4.4	0.3	<1	23	9.7	1.4
3486167	Drill Core	0.188	8.5	53	1.72	1227	0.437	7.66	1.785	3.63	0.7	15.8	19	1.1	13.6	3.7	0.2	<1	33	19.6	0.7
3486168	Drill Core	0.136	9.4	107	1.63	224	0.360	7.92	2.311	3.54	1.0	14.0	20	0.5	14.4	4.7	0.3	<1	26	13.2	1.6

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
3486145	Drill Core	91.7	0.6	<0.05	0.007	1	<0.5	<0.5	
3486146	Drill Core	66.1	0.7	0.17	0.006	3	<0.5	<0.5	
3486147	Drill Core	60.1	0.5	0.16	0.009	<1	<0.5	<0.5	
3486148	Drill Core	41.6	1.1	<0.05	<0.005	<1	0.8	<0.5	
3486149	Drill Core	17.4	1.2	0.06	0.006	<1	0.5	<0.5	
3486150	Rock	0.3	<0.1	<0.05	<0.005	<1	2.9	<0.5	
3486151	Drill Core	57.6	1.0	<0.05	<0.005	<1	<0.5	<0.5	
3486152	Drill Core	59.3	1.0	0.07	<0.005	<1	<0.5	<0.5	
3486153	Drill Core	49.2	1.0	0.07	<0.005	<1	<0.5	<0.5	
3486154	Drill Core	85.1	1.0	<0.05	<0.005	1	<0.5	<0.5	
3486155	Core DUP	80.0	1.1	0.05	<0.005	1	<0.5	<0.5	
3486156	Drill Core	63.7	0.6	<0.05	0.007	7	<0.5	<0.5	
3486157	Drill Core	64.8	0.5	0.05	0.011	3	<0.5	<0.5	
3486158	Drill Core	46.3	0.6	<0.05	<0.005	5	<0.5	<0.5	
3486159	Drill Core	57.0	0.6	<0.05	<0.005	2	<0.5	<0.5	
3486160	Rock Pulp	169.4	2.3	0.05	<0.005	3	0.5	1.1	
3486161	Drill Core	55.7	0.5	0.10	0.007	6	<0.5	<0.5	
3486162	Drill Core	120.4	0.6	<0.05	0.006	2	<0.5	0.6	
3486163	Drill Core	117.1	0.5	<0.05	0.006	7	<0.5	0.6	
3486164	Drill Core	88.4	0.5	<0.05	<0.005	7	<0.5	<0.5	
3486165	Drill Core	159.4	0.3	<0.05	0.010	26	<0.5	0.7	10.47
3486166	Drill Core	125.0	0.5	<0.05	<0.005	<1	<0.5	0.5	
3486167	Drill Core	94.0	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486168	Drill Core	94.8	0.5	<0.05	0.006	1	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3486039	Drill Core	2.20	0.010	0.9	53.3	2.5	130	<0.1	54.3	45.7	1648	8.00	7	0.6	1.5	243	<0.1	0.6	<0.1	314	2.92
REP 3486039	QC			0.9	52.3	2.4	128	<0.1	54.3	45.6	1648	7.88	6	0.6	1.5	240	<0.1	0.6	<0.1	308	2.93
3486059	Drill Core	5.06	0.010	1.3	439.5	5.4	110	0.4	24.2	67.4	1620	9.98	6	0.5	1.0	630	<0.1	2.4	<0.1	350	5.37
REP 3486059	QC		0.009																		
3486074	Drill Core	5.00	0.010	1.7	543.7	9.5	126	0.5	23.3	51.0	1839	9.58	7	0.4	0.8	959	0.3	2.7	<0.1	304	6.47
REP 3486074	QC			1.5	527.6	9.5	118	0.6	22.9	52.8	1861	9.63	5	0.4	0.8	945	0.3	2.9	<0.1	307	6.55
3486081	Drill Core	4.76	0.010	1.6	215.8	6.7	131	0.2	49.1	42.2	1510	7.70	5	0.7	1.3	434	0.5	1.5	<0.1	297	5.10
REP 3486081	QC		0.011																		
3486099	Drill Core	2.37	0.016	2.4	185.4	4.6	59	0.3	12.6	26.9	758	5.91	5	0.5	1.2	228	0.2	4.8	<0.1	209	5.05
REP 3486099	QC			2.5	193.7	4.9	60	0.3	13.3	26.6	751	5.95	5	0.5	1.2	239	0.1	4.8	<0.1	211	4.94
3486109	Drill Core	2.12	0.019	4.4	375.0	11.5	92	0.4	13.3	40.9	1205	8.71	17	0.7	1.4	736	0.1	4.1	<0.1	382	5.43
REP 3486109	QC			4.6	382.0	11.4	90	0.5	13.9	40.9	1209	8.72	19	0.8	1.4	760	<0.1	3.9	<0.1	383	5.44
3486129	Drill Core	4.02	0.011	1.8	155.7	4.9	106	0.2	21.3	38.2	1689	9.00	5	0.7	1.4	492	0.1	1.6	<0.1	349	5.16
REP 3486129	QC		0.013																		
3486144	Drill Core	4.28	0.011	3.0	46.7	7.8	33	<0.1	11.9	23.6	783	4.94	9	1.4	3.0	680	<0.1	1.6	0.1	187	3.13
REP 3486144	QC			2.6	46.5	7.3	35	<0.1	12.2	21.7	771	4.88	10	1.5	3.2	672	<0.1	1.6	<0.1	185	3.11
3486147	Drill Core	4.70	0.011	1.8	114.7	4.9	70	0.1	26.5	31.2	961	7.20	4	0.9	2.1	512	<0.1	1.5	<0.1	243	3.76
REP 3486147	QC		0.011																		
3486164	Drill Core	2.23	0.012	3.5	103.6	7.3	32	0.1	29.2	35.4	466	8.80	5	1.0	1.6	400	<0.1	1.5	<0.1	303	2.08
REP 3486164	QC			3.6	104.6	7.4	30	0.1	30.4	34.8	474	9.01	5	1.0	1.7	408	<0.1	1.4	<0.1	306	2.15
Core Reject Duplicates																					
3486053	Drill Core	5.00	0.019	4.7	59.1	7.5	51	0.1	20.1	36.8	1140	7.17	3	1.1	2.0	682	0.2	1.8	<0.1	259	4.55
DUP 3486053	QC		0.012	4.7	57.3	7.5	54	0.1	19.6	39.2	1142	7.16	5	1.0	1.9	683	<0.1	1.7	<0.1	259	4.52
3486087	Drill Core	4.59	0.009	2.7	222.5	7.3	94	0.2	12.5	34.4	1165	7.46	8	0.8	1.5	607	0.1	1.8	<0.1	268	3.73
DUP 3486087	QC		0.009	2.9	235.1	7.7	96	0.3	13.1	34.3	1211	7.61	6	0.9	1.8	648	0.2	2.0	<0.1	266	3.78
3486121	Drill Core	4.82	0.036	6.3	384.1	21.0	91	0.6	15.6	40.0	986	8.30	18	0.6	1.2	404	0.2	2.0	0.2	243	3.82
DUP 3486121	QC		0.034	6.6	376.9	19.5	90	0.6	16.5	40.0	966	8.22	20	0.6	1.3	400	0.2	1.9	0.2	244	3.79
Reference Materials																					

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3486039	Drill Core	0.109	8.9	163	4.51	546	0.434	7.30	2.404	0.95	0.6	11.1	16	0.9	14.9	3.7	0.3	<1	37	21.3	<0.1
REP 3486039	QC	0.108	8.9	163	4.53	542	0.431	7.32	2.452	0.94	0.6	11.4	16	0.9	14.9	3.6	0.3	<1	37	21.5	<0.1
3486059	Drill Core	0.083	4.5	43	3.17	258	0.471	8.22	1.393	1.96	0.8	17.4	10	0.7	12.7	3.2	0.2	<1	26	15.3	2.3
REP 3486059	QC																				
3486074	Drill Core	0.139	9.5	38	3.71	525	0.438	7.88	1.299	1.09	0.5	11.3	19	0.6	15.5	3.9	0.2	<1	28	14.4	4.0
REP 3486074	QC	0.140	9.8	42	3.74	556	0.465	8.10	1.308	1.17	0.6	11.7	20	0.7	16.5	3.8	0.2	<1	30	13.2	4.0
3486081	Drill Core	0.176	9.3	113	3.72	115	0.437	8.11	2.148	1.93	0.7	15.9	19	0.7	15.7	3.4	0.2	1	29	20.0	2.9
REP 3486081	QC																				
3486099	Drill Core	0.145	7.2	16	1.29	62	0.411	7.01	2.021	2.89	27.9	19.6	16	0.8	11.3	5.4	0.4	<1	16	13.1	2.5
REP 3486099	QC	0.141	7.4	15	1.30	110	0.399	7.24	2.080	2.95	26.8	18.8	17	0.8	11.7	5.3	0.3	1	15	13.1	2.5
3486109	Drill Core	0.129	9.9	9	2.19	113	0.496	8.73	1.978	1.62	1.7	16.0	19	1.1	15.0	4.3	0.2	<1	19	17.7	3.7
REP 3486109	QC	0.121	9.9	8	2.20	108	0.493	8.87	1.970	1.57	1.6	16.4	19	1.2	15.1	4.5	0.2	1	19	19.3	3.7
3486129	Drill Core	0.122	8.2	36	4.11	63	0.469	7.16	1.671	1.47	0.6	21.0	18	0.7	16.2	3.7	0.2	1	34	17.3	4.2
REP 3486129	QC																				
3486144	Drill Core	0.126	10.6	45	1.31	79	0.315	8.02	2.583	3.10	0.7	12.7	22	0.8	18.2	6.9	0.4	1	18	10.1	1.8
REP 3486144	QC	0.121	11.4	44	1.28	89	0.304	7.88	2.562	3.05	0.6	13.1	23	0.8	17.4	6.8	0.4	1	18	10.9	1.8
3486147	Drill Core	0.140	11.5	83	2.61	51	0.310	7.46	1.664	2.22	0.9	14.5	22	0.7	17.0	4.3	0.3	<1	25	19.5	3.5
REP 3486147	QC																				
3486164	Drill Core	0.127	7.1	91	0.72	38	0.366	6.57	1.676	3.11	0.8	10.2	18	0.7	19.7	3.7	0.2	<1	31	12.2	3.9
REP 3486164	QC	0.131	7.9	90	0.74	53	0.367	6.75	1.721	3.17	0.8	10.2	19	0.7	20.8	3.6	0.2	1	32	11.6	4.1
Core Reject Duplicates																					
3486053	Drill Core	0.146	11.1	41	2.04	65	0.431	8.30	2.403	1.85	0.8	16.5	21	1.3	18.0	5.2	0.3	1	24	13.0	4.0
DUP 3486053	QC	0.146	10.9	40	2.02	82	0.434	8.18	2.399	1.83	0.9	17.3	21	1.1	17.7	4.9	0.3	<1	25	12.0	3.9
3486087	Drill Core	0.183	10.2	12	2.20	119	0.452	8.43	2.300	2.76	1.2	12.7	20	1.0	17.0	4.8	0.2	<1	21	16.2	2.6
DUP 3486087	QC	0.181	11.5	11	2.28	97	0.452	8.40	2.174	2.64	1.3	13.1	23	1.0	19.2	4.9	0.3	<1	21	17.2	2.7
3486121	Drill Core	0.152	6.2	11	1.81	19	0.340	7.66	1.335	3.30	0.7	11.8	15	0.8	14.7	3.5	0.2	<1	17	18.3	6.3
DUP 3486121	QC	0.153	6.7	11	1.78	19	0.332	7.32	1.342	3.27	0.7	11.9	16	0.9	15.6	3.5	0.2	<1	18	19.0	6.3
Reference Materials																					

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Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	TC000
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	TOT/S
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.02
Pulp Duplicates									
3486039	Drill Core	25.2	0.6	0.07	<0.005	<1	<0.5	<0.5	
REP 3486039	QC	25.5	0.5	0.07	<0.005	<1	<0.5	<0.5	
3486059	Drill Core	50.6	0.6	<0.05	<0.005	2	1.5	<0.5	
REP 3486059	QC								
3486074	Drill Core	28.0	0.5	0.06	0.006	3	0.8	<0.5	
REP 3486074	QC	27.8	0.5	<0.05	0.007	4	0.6	<0.5	
3486081	Drill Core	51.2	0.6	0.13	0.005	3	<0.5	<0.5	
REP 3486081	QC								
3486099	Drill Core	71.6	0.6	<0.05	<0.005	3	<0.5	0.7	
REP 3486099	QC	75.6	0.5	<0.05	<0.005	3	<0.5	0.7	
3486109	Drill Core	37.5	0.5	0.07	<0.005	1	<0.5	<0.5	
REP 3486109	QC	38.1	0.6	<0.05	<0.005	2	<0.5	<0.5	
3486129	Drill Core	44.4	0.9	<0.05	<0.005	2	<0.5	<0.5	
REP 3486129	QC								
3486144	Drill Core	59.3	0.6	<0.05	<0.005	<1	<0.5	<0.5	
REP 3486144	QC	57.2	0.6	<0.05	<0.005	1	<0.5	<0.5	
3486147	Drill Core	60.1	0.5	0.16	0.009	<1	<0.5	<0.5	
REP 3486147	QC								
3486164	Drill Core	88.4	0.5	<0.05	<0.005	7	<0.5	<0.5	
REP 3486164	QC	94.3	0.4	<0.05	<0.005	7	<0.5	<0.5	
Core Reject Duplicates									
3486053	Drill Core	44.9	0.7	<0.05	0.010	7	<0.5	<0.5	
DUP 3486053	QC	44.3	0.7	<0.05	0.008	8	<0.5	<0.5	
3486087	Drill Core	66.4	0.5	0.09	<0.005	3	<0.5	0.5	
DUP 3486087	QC	70.4	0.6	0.10	<0.005	3	<0.5	0.6	
3486121	Drill Core	78.4	0.4	<0.05	0.006	4	0.6	0.6	
DUP 3486121	QC	83.1	0.4	<0.05	0.012	6	<0.5	0.6	
Reference Materials									

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS25A-4A	Standard			2.5	35.0	23.2	50	<0.1	46.6	7.6	503	6.80	10	2.7	14.5	47	<0.1	0.6	0.4	164	0.28
STD OREAS25A-4A	Standard			2.6	30.9	23.6	45	0.2	48.6	7.6	470	6.36	10	2.7	14.9	46	<0.1	0.6	0.3	156	0.26
STD OREAS25A-4A	Standard			2.5	32.9	26.8	45	<0.1	44.9	7.8	481	6.40	10	2.9	16.7	49	<0.1	0.6	0.3	159	0.28
STD OREAS25A-4A	Standard			2.2	33.3	24.3	49	<0.1	44.9	7.5	495	6.47	8	2.9	15.9	51	<0.1	0.6	0.4	154	0.28
STD OREAS25A-4A	Standard			2.2	31.4	25.1	41	<0.1	41.9	7.1	483	6.26	9	3.1	16.1	51	0.1	0.6	0.5	151	0.28
STD OREAS25A-4A	Standard			2.3	32.4	23.7	47	<0.1	42.6	7.3	483	6.44	9	2.7	15.0	52	<0.1	0.7	0.4	152	0.28
STD OREAS25A-4A	Standard			2.4	35.8	24.7	45	<0.1	47.0	7.7	499	6.70	10	2.7	14.8	44	<0.1	0.6	0.3	165	0.27
STD OREAS45E	Standard			2.1	777.8	16.7	50	0.3	473.6	58.0	546	25.51	16	2.2	12.2	17	<0.1	1.2	0.4	322	0.06
STD OREAS45E	Standard			2.6	763.2	17.8	46	0.4	460.6	58.5	540	23.93	17	2.4	12.6	15	<0.1	0.9	0.3	317	0.06
STD OREAS45E	Standard			2.1	788.4	19.7	53	0.3	476.7	61.4	570	25.87	16	2.7	14.1	19	<0.1	1.1	0.3	324	0.06
STD OREAS45H	Standard			1.4	794.4	13.5	43	0.1	447.6	90.7	410	20.93	18	1.8	8.2	34	<0.1	0.7	0.2	272	0.13
STD OREAS45E	Standard			2.2	766.9	18.5	50	0.3	460.9	59.7	549	25.16	17	2.5	13.5	18	<0.1	1.1	0.4	320	0.06
STD OREAS45E	Standard			2.2	775.5	17.9	46	0.3	468.7	59.0	555	24.91	16	2.4	12.9	17	<0.1	1.0	0.2	326	0.08
STD OXB130	Standard		0.117																		
STD OXB130	Standard		0.119																		
STD OXB130	Standard		0.118																		
STD OXB130	Standard		0.117																		
STD OXG141	Standard		0.944																		
STD OXG141	Standard		0.929																		
STD OXG141	Standard		0.923																		
STD OXG141	Standard		0.898																		
STD OXN155	Standard		7.575																		
STD OXN155	Standard		7.553																		
STD OXN155	Standard		7.641																		
STD OXN155	Standard		7.711																		
STD GS311-1 Expected																					
STD GS910-4 Expected																					

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD GS311-1	Standard																				
STD GS910-4	Standard																				
STD OREAS25A-4A	Standard	0.051	20.3	121	0.37	146	0.972	8.99	0.156	0.52	1.8	160.0	48	3.7	10.6	20.6	1.4	<1	13	41.1	<0.1
STD OREAS25A-4A	Standard	0.045	21.0	116	0.32	134	0.897	8.53	0.130	0.47	2.0	160.2	46	3.5	9.1	18.5	1.5	<1	12	35.0	<0.1
STD OREAS25A-4A	Standard	0.048	23.8	115	0.32	153	0.884	8.78	0.119	0.47	1.8	148.3	49	4.2	10.4	18.9	1.4	<1	13	40.1	<0.1
STD OREAS25A-4A	Standard	0.043	22.7	110	0.32	145	0.891	8.76	0.117	0.44	1.8	136.6	49	3.9	11.2	17.7	1.3	<1	12	33.7	<0.1
STD OREAS25A-4A	Standard	0.047	22.6	110	0.33	146	0.884	8.65	0.119	0.49	1.8	142.3	50	3.8	10.6	18.3	1.3	1	12	35.5	<0.1
STD OREAS25A-4A	Standard	0.042	20.2	111	0.30	147	0.919	8.80	0.133	0.48	1.9	149.9	47	3.9	11.5	20.2	1.3	<1	12	36.8	<0.1
STD OREAS25A-4A	Standard	0.050	19.1	112	0.38	146	0.924	9.00	0.152	0.48	1.8	155.4	47	3.5	9.7	19.6	1.4	<1	12	36.3	<0.1
STD OREAS45E	Standard	0.036	9.5	1012	0.19	238	0.515	6.59	0.076	0.38	1.0	95.4	23	1.1	7.8	6.2	0.5	<1	104	8.0	<0.1
STD OREAS45E	Standard	0.031	10.9	1041	0.16	227	0.526	6.82	0.061	0.33	1.0	98.0	22	1.2	7.1	5.8	0.6	<1	88	6.7	<0.1
STD OREAS45E	Standard	0.033	11.8	987	0.16	271	0.535	6.85	0.056	0.33	1.0	95.3	26	1.4	9.2	6.5	0.5	<1	92	5.6	<0.1
STD OREAS45H	Standard	0.022	14.2	648	0.28	355	0.907	8.15	0.091	0.21	0.8	123.2	27	1.8	10.7	14.1	1.0	1	59	14.7	<0.1
STD OREAS45E	Standard	0.032	11.2	945	0.16	263	0.524	6.77	0.057	0.35	0.9	98.3	26	1.5	8.6	6.5	0.5	<1	94	6.4	<0.1
STD OREAS45E	Standard	0.034	10.9	980	0.18	250	0.530	6.82	0.070	0.33	1.1	92.6	24	1.2	7.9	6.2	0.5	<1	91	6.6	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD GS311-1 Expected																					
STD GS910-4 Expected																					

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	TC000 TOT/S % 0.02
STD GS311-1	Standard								2.31
STD GS910-4	Standard								8.07
STD OREAS25A-4A	Standard	60.1	4.1	0.06	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.6	4.2	0.09	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	60.2	3.8	0.09	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.0	4.0	0.09	<0.005	<1	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.2	3.9	0.08	<0.005	1	<0.5	<0.5	
STD OREAS25A-4A	Standard	59.0	3.9	0.11	<0.005	<1	<0.5	<0.5	
STD OREAS25A-4A	Standard	54.8	4.3	0.12	<0.005	3	<0.5	<0.5	
STD OREAS45E	Standard	20.9	2.8	0.13	<0.005	3	<0.5	<0.5	
STD OREAS45E	Standard	20.1	3.0	0.09	<0.005	3	<0.5	<0.5	
STD OREAS45E	Standard	22.7	2.9	0.10	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	23.5	3.5	0.13	<0.005	<1	<0.5	<0.5	
STD OREAS45E	Standard	21.8	3.1	0.10	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	20.2	3.0	0.06	<0.005	3	<0.5	<0.5	
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD GS311-1 Expected									2.35
STD GS910-4 Expected									8.27

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank																				
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.5	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.006																		
BLK	Blank		0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	0.8	8.6	2.4	32	<0.1	0.6	3.1	552	1.81	3	1.3	2.9	181	<0.1	0.2	<0.1	29	1.40
ROCK-VAN	Prep Blank		<0.005	0.9	5.5	2.3	30	<0.1	0.6	3.2	561	1.85	2	1.3	2.9	183	<0.1	0.1	<0.1	29	1.42

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.033	12.3	2	0.44	629	0.175	6.69	3.818	1.34	0.3	46.2	22	0.8	13.4	5.0	0.5	<1	5	2.3	<0.1
ROCK-VAN	Prep Blank	0.033	12.8	2	0.45	647	0.179	6.87	3.913	1.36	0.3	46.1	23	0.7	13.7	5.2	0.4	<1	5	2.2	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001199.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	TC000 TOT/S % 0.02
STD OXG141 Expected									
STD OXN155 Expected									
STD OXB130 Expected									
STD OREAS45H Expected		22.5	3.6	0.1		2.02			
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35	
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15	
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								<0.02
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	0.1	<0.1	<0.05	0.005	<1	<0.5	<0.5	
Prep Wash									
ROCK-VAN	Prep Blank	26.6	1.7	<0.05	<0.005	<1	<0.5	<0.5	
ROCK-VAN	Prep Blank	27.0	1.7	<0.05	<0.005	<1	<0.5	<0.5	

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 29, 2020
Analysis Start:	July 15, 2020
Report Date:	July 25, 2020
Page:	1 of 8

CERTIFICATE OF ANALYSIS VAN20001251.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_07
P.O. Number	M22165
Number of Samples:	200

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	185	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	5	Split samples by riffle splitter			VAN
PUL85	5	Pulverize to 85% passing 200 mesh			VAN
SLBHP	10	Sort, label and box pulps			VAN
FA430	200	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	200	Environmental disposal charge-Fire assay lead waste			VAN
MA200	200	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EX001	200	Special handling charge			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346345	Drill Core	3.57	0.008	0.7	90.0	4.8	135	0.1	10.0	24.2	1833	6.65	8	0.5	0.8	538	0.1	1.4	<0.1	278	4.11
3346346	Drill Core	3.44	0.013	0.9	192.7	5.3	122	0.2	10.5	33.1	1990	7.11	12	0.5	0.9	768	0.2	1.9	<0.1	313	4.95
3346347	Drill Core	4.61	0.013	0.8	161.1	4.8	126	0.2	8.8	26.3	1832	6.83	8	0.5	1.1	596	0.1	1.3	<0.1	302	4.62
3346348	Drill Core	4.24	0.013	0.8	162.2	7.2	123	0.2	11.3	26.2	1913	6.77	12	0.5	1.0	689	0.2	1.9	<0.1	302	5.24
3346349	Drill Core	3.87	0.011	0.9	156.2	5.3	124	0.2	8.6	22.1	1803	6.69	10	0.6	1.1	638	<0.1	1.6	<0.1	305	4.74
3346350	Rock	1.34	<0.005	<0.1	0.5	0.6	4	<0.1	0.5	0.3	141	0.14	2	0.2	<0.1	81	<0.1	<0.1	<0.1	1	33.98
3346351	Drill Core	2.86	0.016	0.7	266.2	6.5	118	0.5	22.8	45.5	1889	6.92	27	0.7	1.1	577	<0.1	2.0	<0.1	286	4.51
3346352	Drill Core	1.48	0.017	1.6	190.1	4.9	115	0.5	24.4	47.9	1694	7.20	25	0.6	0.8	395	0.2	1.2	<0.1	279	3.06
3346353	Drill Core	4.49	0.012	1.1	154.6	5.1	115	0.2	8.1	27.8	1721	6.51	6	0.5	1.0	659	0.1	1.4	<0.1	301	5.18
3346354	Drill Core	4.86	0.017	1.1	171.7	5.4	103	0.3	8.7	28.7	1652	6.71	5	0.6	1.3	607	<0.1	1.0	<0.1	307	5.68
3346355	Drill Core	4.55	0.017	1.2	177.7	6.0	113	0.5	9.1	30.8	1662	6.53	5	0.7	1.3	708	<0.1	1.3	<0.1	303	6.05
3346356	Drill Core	4.07	0.024	1.6	140.1	7.2	109	0.2	8.5	30.4	1680	6.62	10	0.6	1.0	835	<0.1	1.7	<0.1	294	6.00
3346357	Drill Core	4.73	0.017	1.1	211.4	5.4	108	0.3	9.5	31.9	1732	6.77	6	0.4	1.0	586	<0.1	1.0	<0.1	286	5.31
3346358	Drill Core	4.38	0.015	1.2	151.6	8.0	103	0.2	8.6	26.5	1798	6.72	10	0.5	1.0	784	0.2	2.0	<0.1	299	6.02
3346359	Drill Core	4.48	0.012	1.0	160.4	6.0	111	0.2	8.7	31.0	1628	6.51	6	0.5	1.0	635	<0.1	1.3	<0.1	296	5.63
3346360	Rock Pulp	0.11	0.297	10.0	2276.6	6.5	55	0.6	12.0	15.3	683	5.57	16	0.9	1.3	509	0.3	0.7	0.1	234	2.81
3346361	Drill Core	4.45	0.011	1.5	156.0	5.0	112	0.2	7.9	30.3	1551	6.58	4	0.5	1.0	600	<0.1	0.7	<0.1	291	5.79
3346362	Drill Core	4.40	0.013	1.5	164.6	6.5	110	0.3	8.4	29.1	1634	7.10	6	0.7	1.3	658	<0.1	1.5	<0.1	307	6.11
3346363	Drill Core	4.41	0.010	1.0	150.8	5.8	107	0.2	7.7	26.5	1562	6.47	7	0.6	1.1	587	<0.1	1.0	<0.1	291	5.44
3346364	Drill Core	4.84	0.009	0.8	127.5	8.7	91	0.2	8.3	28.5	1792	7.17	10	0.7	1.3	1230	0.2	3.2	<0.1	302	7.30
3346365	Drill Core	4.42	0.013	1.4	163.9	7.6	108	0.2	8.4	31.9	1714	6.68	8	0.6	1.1	679	<0.1	2.3	<0.1	290	5.33
3346366	Drill Core	4.54	0.022	1.6	147.7	7.1	107	0.3	7.1	30.6	1727	6.54	10	0.7	1.5	706	<0.1	2.5	<0.1	271	6.08
3346367	Drill Core	4.43	0.017	4.0	267.4	6.7	123	0.4	8.3	29.7	1710	6.48	10	0.6	1.1	699	0.1	3.1	<0.1	271	4.60
3346368	Drill Core	3.64	0.026	3.0	152.5	6.7	124	0.3	7.8	27.7	1621	6.57	9	0.5	1.1	537	<0.1	3.2	<0.1	267	4.10
3346369	Drill Core	4.59	0.013	1.6	156.2	5.7	109	0.2	6.7	27.5	1675	6.50	8	0.6	1.2	566	0.1	2.7	<0.1	272	5.10
3346370	Rock	1.28	0.006	<0.1	3.4	0.4	4	<0.1	1.5	0.3	145	0.11	<1	0.1	<0.1	86	<0.1	<0.1	<0.1	1	32.91
3346371	Drill Core	4.65	0.014	1.3	124.4	6.7	117	0.2	7.7	28.6	1740	6.57	7	0.8	1.6	629	0.1	2.3	<0.1	276	4.68
3346372	Drill Core	4.72	0.015	2.1	177.8	6.8	99	0.2	7.0	36.8	1597	6.80	7	1.0	2.0	619	0.1	2.2	<0.1	263	5.61
3346373	Drill Core	4.74	0.018	2.3	190.8	8.2	106	0.2	6.8	45.3	1677	6.86	8	0.9	1.7	695	<0.1	2.5	<0.1	267	5.88
3346374	Drill Core	4.42	0.010	2.3	166.2	7.6	118	0.2	8.8	34.0	1654	7.02	8	0.9	2.2	683	<0.1	3.3	0.1	297	5.19

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346345	Drill Core	0.194	5.7	6	2.09	1313	0.561	7.74	2.800	1.94	1.0	35.8	14	0.8	14.3	6.5	0.3	<1	13	15.6	<0.1
3346346	Drill Core	0.193	5.6	6	2.03	1165	0.514	7.80	2.360	1.91	0.8	32.6	13	0.7	14.6	5.5	0.3	<1	15	16.2	<0.1
3346347	Drill Core	0.203	6.6	5	1.97	1277	0.484	7.90	2.337	1.79	0.6	33.6	15	0.7	15.0	5.1	0.3	<1	14	15.8	<0.1
3346348	Drill Core	0.173	5.6	6	1.91	1211	0.491	7.88	2.521	1.98	0.7	37.8	13	0.7	14.2	5.5	0.3	1	14	16.5	<0.1
3346349	Drill Core	0.164	5.7	5	2.08	1233	0.491	7.76	2.556	2.04	0.6	38.3	13	0.7	13.7	5.7	0.3	1	14	17.3	<0.1
3346350	Rock	0.005	1.2	2	2.53	11	0.005	0.07	0.025	<0.01	<0.1	1.2	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.3	<0.1
3346351	Drill Core	0.174	8.3	54	2.71	1131	0.637	7.71	2.277	2.29	1.3	35.4	19	1.2	18.7	8.3	0.5	<1	22	21.0	<0.1
3346352	Drill Core	0.178	6.5	49	2.26	1111	0.626	7.39	2.525	2.56	1.3	33.0	16	0.9	15.8	7.6	0.5	<1	21	21.4	<0.1
3346353	Drill Core	0.142	5.2	5	2.15	1104	0.488	7.35	2.418	1.96	0.5	39.2	12	0.7	13.4	5.4	0.3	<1	13	16.2	<0.1
3346354	Drill Core	0.142	5.8	5	2.20	1086	0.489	7.96	2.412	1.82	0.4	42.9	14	0.6	14.2	5.3	0.3	2	15	14.3	<0.1
3346355	Drill Core	0.125	6.6	5	2.21	1059	0.484	8.14	2.318	1.72	0.3	44.3	15	0.9	15.6	5.3	0.3	<1	16	14.3	0.2
3346356	Drill Core	0.117	6.4	5	2.08	1083	0.481	8.15	2.284	1.83	0.4	38.4	14	0.7	15.3	4.9	0.3	2	15	12.0	0.2
3346357	Drill Core	0.124	5.6	5	2.09	1358	0.468	7.99	2.357	1.93	0.6	35.0	13	0.6	13.7	4.9	0.3	<1	15	15.9	0.2
3346358	Drill Core	0.147	5.5	5	2.01	1172	0.497	7.82	2.246	1.76	0.8	37.6	13	0.7	13.3	5.6	0.3	<1	14	11.6	<0.1
3346359	Drill Core	0.172	6.0	3	2.16	1094	0.491	7.75	2.479	1.76	0.6	35.7	14	0.7	13.5	5.8	0.3	<1	14	13.4	<0.1
3346360	Rock Pulp	0.112	8.2	23	1.18	1390	0.344	7.97	3.039	3.63	0.8	39.4	17	1.9	17.9	2.6	0.2	<1	9	12.2	0.2
3346361	Drill Core	0.163	6.1	4	2.14	1137	0.486	7.80	2.456	1.72	0.3	40.1	14	0.7	13.4	5.7	0.3	<1	14	13.4	<0.1
3346362	Drill Core	0.158	7.1	5	2.30	1177	0.507	8.68	2.623	1.85	0.4	45.9	15	0.8	15.8	6.4	0.3	<1	16	14.9	0.2
3346363	Drill Core	0.149	5.7	4	1.99	1170	0.493	7.62	2.436	1.98	0.3	40.9	13	0.7	13.8	5.8	0.3	<1	13	11.6	<0.1
3346364	Drill Core	0.146	7.6	4	1.95	826	0.480	8.48	1.811	1.58	1.1	26.6	16	0.8	15.8	5.6	0.3	1	15	11.1	<0.1
3346365	Drill Core	0.164	6.6	4	2.04	1255	0.498	8.15	2.434	1.82	0.8	34.6	15	0.7	15.3	5.9	0.3	1	15	13.7	0.2
3346366	Drill Core	0.154	9.6	4	2.04	1151	0.462	8.62	2.536	1.84	1.0	35.2	19	0.7	17.0	6.0	0.3	<1	16	12.5	0.4
3346367	Drill Core	0.157	6.3	3	1.99	1222	0.480	7.86	2.539	1.99	1.1	32.8	14	0.7	14.8	6.3	0.3	<1	14	12.7	0.3
3346368	Drill Core	0.176	5.8	4	2.07	1235	0.497	7.73	2.610	2.36	1.5	31.8	14	0.7	14.4	6.6	0.3	2	14	12.8	0.4
3346369	Drill Core	0.163	6.0	4	1.99	1224	0.488	7.76	2.611	2.08	0.6	38.6	14	0.6	14.0	6.0	0.3	<1	13	10.0	<0.1
3346370	Rock	0.006	1.2	<1	2.24	11	0.006	0.08	0.029	<0.01	<0.1	1.4	<1	<0.1	2.2	0.2	<0.1	<1	<1	0.9	<0.1
3346371	Drill Core	0.165	6.2	4	2.00	1267	0.480	7.99	2.621	1.96	1.2	42.9	14	0.7	15.7	6.6	0.4	<1	13	11.6	0.2
3346372	Drill Core	0.163	8.8	4	2.07	800	0.482	8.58	2.358	1.83	0.6	49.9	18	0.8	17.1	6.3	0.3	2	16	11.0	0.9
3346373	Drill Core	0.158	9.3	4	2.05	873	0.494	8.71	2.370	1.91	0.7	47.0	19	0.9	17.4	6.7	0.4	1	16	10.4	1.0
3346374	Drill Core	0.183	12.0	5	2.18	1164	0.492	9.47	2.559	2.78	1.4	42.2	23	1.0	21.6	7.0	0.4	<1	20	14.3	0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346345	Drill Core	14.9	1.2	<0.05	<0.005	<1	0.8	<0.5
3346346	Drill Core	17.0	1.1	<0.05	<0.005	<1	0.9	<0.5
3346347	Drill Core	19.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346348	Drill Core	16.3	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346349	Drill Core	19.4	1.2	0.07	0.005	<1	<0.5	<0.5
3346350	Rock	0.2	<0.1	<0.05	<0.005	<1	1.4	<0.5
3346351	Drill Core	24.1	1.2	0.05	<0.005	<1	0.6	<0.5
3346352	Drill Core	24.4	1.2	0.06	<0.005	<1	<0.5	<0.5
3346353	Drill Core	17.5	1.4	<0.05	<0.005	<1	0.6	<0.5
3346354	Drill Core	18.7	1.6	<0.05	<0.005	<1	<0.5	<0.5
3346355	Drill Core	22.0	1.6	<0.05	<0.005	<1	0.6	<0.5
3346356	Drill Core	21.2	1.4	0.05	<0.005	<1	<0.5	<0.5
3346357	Drill Core	21.9	1.2	0.06	<0.005	<1	<0.5	<0.5
3346358	Drill Core	17.3	1.2	<0.05	<0.005	<1	0.5	<0.5
3346359	Drill Core	15.7	1.2	<0.05	<0.005	<1	0.6	<0.5
3346360	Rock Pulp	62.0	1.3	0.08	0.043	2	<0.5	<0.5
3346361	Drill Core	17.3	1.4	<0.05	<0.005	<1	0.5	<0.5
3346362	Drill Core	24.3	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346363	Drill Core	18.2	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346364	Drill Core	23.0	1.0	0.06	<0.005	<1	<0.5	<0.5
3346365	Drill Core	21.3	1.1	<0.05	<0.005	<1	0.7	<0.5
3346366	Drill Core	39.3	1.3	0.06	<0.005	<1	<0.5	<0.5
3346367	Drill Core	21.2	1.1	0.07	<0.005	<1	0.8	<0.5
3346368	Drill Core	25.4	1.1	<0.05	<0.005	<1	0.6	<0.5
3346369	Drill Core	23.1	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346370	Rock	0.2	<0.1	<0.05	<0.005	<1	4.3	<0.5
3346371	Drill Core	23.0	1.7	0.05	<0.005	<1	<0.5	<0.5
3346372	Drill Core	39.6	1.7	0.06	<0.005	<1	<0.5	<0.5
3346373	Drill Core	39.2	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346374	Drill Core	75.9	1.4	<0.05	<0.005	<1	<0.5	<0.5

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346375	Core DUP		0.010	2.5	167.2	7.4	125	0.2	8.5	34.1	1731	7.15	8	0.9	2.2	671	0.2	3.2	<0.1	308	5.10
3346376	Drill Core	4.23	0.014	5.0	124.2	33.4	119	0.2	8.7	53.3	1832	7.64	12	0.9	2.0	924	<0.1	3.9	0.1	321	5.69
3346377	Drill Core	4.76	0.011	1.5	141.5	7.9	118	0.2	9.1	31.9	1802	7.01	9	0.8	1.9	690	<0.1	3.3	<0.1	285	5.16
3346378	Drill Core	4.71	0.011	1.9	157.3	108.8	130	0.2	8.4	30.1	1778	7.00	9	0.9	1.8	649	0.2	2.7	<0.1	278	5.37
3346379	Drill Core	4.31	0.012	2.1	127.7	15.9	88	0.2	7.7	32.4	1831	6.83	12	0.9	1.9	921	<0.1	4.4	<0.1	260	6.74
3346380	Rock Pulp	0.13	0.226	93.9	2739.0	21.1	83	0.4	61.3	16.0	568	4.38	20	5.4	19.6	318	0.3	2.2	0.8	125	2.67
3346381	Drill Core	4.74	0.011	1.8	193.0	8.7	99	0.3	7.2	30.8	1663	6.81	10	1.0	2.3	774	0.2	3.9	<0.1	284	5.63
3346382	Drill Core	6.27	0.009	2.0	145.8	5.8	120	0.2	7.7	27.8	1828	6.75	8	1.0	2.1	659	<0.1	2.7	<0.1	275	6.05
3346383	Drill Core	2.78	0.011	4.1	33.3	3.0	25	<0.1	0.7	6.7	595	2.14	6	1.6	3.7	156	<0.1	0.7	<0.1	36	3.05
3346384	Drill Core	4.64	0.016	4.5	8.9	6.8	28	<0.1	0.7	4.1	585	2.74	4	1.7	4.1	242	<0.1	0.8	<0.1	31	1.78
3346385	Drill Core	2.84	0.016	1.7	138.7	5.6	106	0.1	8.5	26.1	1888	6.91	8	0.9	2.2	509	<0.1	1.4	<0.1	281	4.76
3346386	Drill Core	4.29	0.017	4.6	19.5	4.9	30	0.1	0.2	3.7	527	2.00	3	1.6	4.1	135	<0.1	0.3	<0.1	31	2.36
3346387	Drill Core	4.96	0.009	1.7	107.8	5.2	140	0.2	9.2	24.9	2055	7.06	6	0.9	2.1	532	<0.1	2.4	<0.1	283	5.13
3346388	Drill Core	3.79	0.008	1.5	70.5	6.0	120	<0.1	8.4	28.2	2112	7.27	11	1.0	2.0	590	0.1	2.9	<0.1	276	4.41
3346389	Drill Core	4.93	<0.005	4.3	23.5	3.6	27	<0.1	0.5	2.9	346	2.33	3	1.6	4.6	151	<0.1	0.5	<0.1	39	1.28
3346390	Rock	1.30	<0.005	<0.1	3.6	0.5	3	<0.1	1.4	0.7	140	0.17	3	0.2	<0.1	86	<0.1	<0.1	<0.1	3	34.91
3346391	Drill Core	4.72	<0.005	3.8	4.0	4.7	36	<0.1	0.1	3.3	495	2.44	3	1.7	4.3	261	<0.1	0.7	<0.1	37	1.30
3346392	Drill Core	2.85	0.007	3.2	3.0	3.6	32	<0.1	0.2	6.3	650	2.79	6	2.0	4.8	275	<0.1	1.0	<0.1	64	2.17
3346393	Drill Core	2.69	0.006	2.7	3.5	3.1	31	<0.1	0.3	5.5	505	2.55	6	1.7	4.7	223	<0.1	0.5	<0.1	55	1.71
3346394	Drill Core	4.00	0.019	3.7	8.9	3.8	34	<0.1	0.3	5.6	560	2.63	7	1.8	4.6	251	<0.1	0.6	0.1	48	2.02
3346395	Drill Core	4.00	0.030	4.7	20.1	5.5	33	0.1	0.1	5.8	563	2.49	10	2.0	4.6	294	<0.1	1.2	0.2	44	1.80
3346396	Drill Core	3.73	0.016	4.1	14.6	4.1	27	<0.1	<0.1	3.7	586	2.12	6	1.6	4.2	290	<0.1	1.3	<0.1	27	1.71
3346397	Drill Core	3.82	0.030	4.9	24.7	5.2	35	0.2	0.1	3.8	644	2.21	7	1.9	4.7	312	<0.1	1.2	0.1	29	1.48
3346398	Drill Core	0.98	0.009	4.1	7.9	4.4	40	<0.1	0.2	3.0	614	2.17	6	1.7	4.1	282	<0.1	0.7	<0.1	32	1.44
3346399	Drill Core	5.17	<0.005	1.8	41.3	8.6	93	<0.1	6.0	14.1	1671	5.58	14	0.9	2.0	859	<0.1	3.4	<0.1	205	5.10
3346400	Rock Pulp	0.13	0.652	351.2	5214.7	21.6	81	1.3	33.6	17.9	570	4.96	73	4.7	18.4	385	0.8	3.8	1.8	122	2.66
3346401	Drill Core	5.71	0.012	2.2	197.7	14.8	113	0.2	6.9	20.3	2148	6.64	15	0.9	2.1	847	0.1	4.0	<0.1	241	5.47
3346402	Drill Core	1.68	0.024	5.5	31.4	9.5	72	0.2	1.7	4.8	675	2.44	6	1.7	4.0	315	0.5	1.3	0.2	42	1.44
3346403	Drill Core	2.92	0.008	4.1	17.0	7.6	46	<0.1	0.4	2.8	694	2.09	8	1.8	4.2	279	0.1	2.1	0.2	27	1.34
3346404	Drill Core	2.65	0.006	4.4	14.0	8.3	56	<0.1	0.2	2.8	621	2.07	8	1.8	4.5	294	0.2	2.0	<0.1	27	1.32

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346375	Core DUP	0.168	12.4	5	2.26	1149	0.489	9.38	2.541	2.88	1.3	40.5	23	1.1	20.8	7.0	0.4	<1	19	14.8	<0.1
3346376	Drill Core	0.156	11.6	5	2.00	1000	0.477	9.39	2.159	2.72	1.1	30.0	22	1.0	20.0	6.2	0.4	<1	18	12.6	0.8
3346377	Drill Core	0.143	9.4	5	2.14	1173	0.497	9.20	2.515	3.05	0.7	35.0	17	0.7	17.5	4.8	0.2	<1	18	12.1	0.3
3346378	Drill Core	0.162	9.7	5	2.21	1467	0.486	9.43	2.484	3.06	0.9	35.2	18	0.6	17.4	4.9	0.3	<1	18	11.5	0.3
3346379	Drill Core	0.166	9.1	4	2.06	978	0.490	8.85	2.254	2.60	1.1	30.9	17	0.7	17.1	5.3	0.3	<1	17	7.1	1.0
3346380	Rock Pulp	0.102	38.0	81	1.49	959	0.484	7.91	2.004	3.30	3.8	63.7	70	3.4	26.3	17.3	1.2	2	13	29.4	0.3
3346381	Drill Core	0.175	11.7	4	2.06	1122	0.493	9.14	2.410	2.65	1.0	36.1	22	0.7	19.3	5.7	0.3	<1	18	12.7	0.4
3346382	Drill Core	0.157	10.6	4	2.21	1184	0.473	9.20	2.327	3.14	0.8	39.6	20	0.8	18.4	5.6	0.3	2	17	12.8	<0.1
3346383	Drill Core	0.054	11.3	2	0.39	749	0.257	8.42	3.833	5.39	3.5	77.1	23	0.9	15.1	10.7	0.7	<1	2	3.5	0.6
3346384	Drill Core	0.048	14.8	7	0.41	1063	0.230	9.10	3.515	5.52	2.9	67.7	27	0.8	16.4	10.4	0.8	1	2	5.0	0.7
3346385	Drill Core	0.144	9.7	5	2.23	1207	0.468	9.01	2.469	3.29	1.0	38.3	18	0.7	16.9	5.1	0.3	<1	18	10.8	0.3
3346386	Drill Core	0.047	12.2	2	0.39	782	0.232	9.03	3.006	6.88	4.5	81.9	23	0.8	14.3	10.1	0.7	<1	2	3.1	0.3
3346387	Drill Core	0.153	9.2	5	2.32	1132	0.480	9.39	2.369	3.59	1.1	33.6	17	0.7	15.7	5.1	0.3	2	19	13.0	<0.1
3346388	Drill Core	0.158	11.0	5	2.42	1242	0.470	9.05	2.999	2.88	1.5	34.0	21	0.9	19.2	5.6	0.3	1	18	9.7	0.3
3346389	Drill Core	0.057	15.9	2	0.35	1187	0.264	9.23	4.334	5.25	3.3	71.9	31	1.0	17.6	12.3	0.9	1	2	2.3	<0.1
3346390	Rock	0.006	1.5	1	3.06	14	0.014	0.15	0.062	0.02	<0.1	2.4	1	<0.1	2.6	0.2	<0.1	<1	<1	1.3	<0.1
3346391	Drill Core	0.051	16.8	1	0.50	1366	0.257	8.89	4.234	4.55	1.5	66.8	30	0.9	18.0	11.9	0.8	<1	2	4.2	0.1
3346392	Drill Core	0.076	17.8	2	0.69	1535	0.310	9.51	3.790	4.95	1.3	57.6	32	1.6	21.1	12.7	0.9	2	3	4.4	0.4
3346393	Drill Core	0.071	16.3	1	0.60	1471	0.284	8.92	3.731	4.96	1.6	53.9	31	1.2	18.8	11.6	0.8	<1	3	5.8	0.5
3346394	Drill Core	0.073	15.7	2	0.52	1044	0.261	8.76	3.435	5.01	2.7	67.2	28	1.1	17.5	10.9	0.8	1	3	6.8	0.7
3346395	Drill Core	0.061	16.4	2	0.46	346	0.256	8.56	3.094	5.05	2.1	67.8	30	0.9	18.0	11.5	0.8	<1	3	5.5	0.8
3346396	Drill Core	0.042	16.6	2	0.39	1128	0.209	8.42	3.532	4.56	1.9	53.7	31	0.7	16.7	10.9	0.7	<1	2	4.0	0.6
3346397	Drill Core	0.049	17.6	2	0.39	1480	0.252	8.63	3.410	4.94	1.5	69.7	32	0.9	18.4	12.8	0.8	2	2	5.1	0.5
3346398	Drill Core	0.045	14.9	3	0.39	1255	0.228	8.40	3.456	4.77	1.8	82.3	27	0.9	16.8	11.1	0.7	2	2	4.4	0.3
3346399	Drill Core	0.181	13.9	6	1.70	937	0.648	9.09	2.313	3.63	1.4	31.8	29	1.3	23.1	9.8	0.6	1	15	15.3	<0.1
3346400	Rock Pulp	0.107	38.3	64	1.45	762	0.509	7.94	2.049	3.30	3.5	84.9	71	3.5	26.1	19.5	1.4	3	12	29.4	0.8
3346401	Drill Core	0.174	13.6	5	1.89	1097	0.565	9.27	2.151	3.61	1.4	27.3	27	1.1	22.3	8.1	0.5	<1	17	15.3	0.3
3346402	Drill Core	0.054	16.0	9	0.52	797	0.235	8.55	2.661	5.79	1.6	78.8	30	0.9	16.7	11.4	0.8	<1	2	7.2	0.8
3346403	Drill Core	0.044	16.3	3	0.37	1280	0.222	8.47	2.661	5.86	1.0	70.2	29	0.9	15.6	11.0	0.8	<1	2	6.0	0.6
3346404	Drill Core	0.047	17.7	2	0.40	1693	0.225	8.42	2.086	6.66	1.1	82.3	32	0.9	14.6	11.6	0.8	1	2	5.8	0.4

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Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346375	Core DUP	75.2	1.5	<0.05	<0.005	1	<0.5	<0.5
3346376	Drill Core	60.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346377	Drill Core	72.1	1.2	0.05	<0.005	<1	<0.5	<0.5
3346378	Drill Core	73.4	1.4	0.06	<0.005	<1	<0.5	<0.5
3346379	Drill Core	54.9	1.2	<0.05	<0.005	<1	0.5	<0.5
3346380	Rock Pulp	190.4	2.0	<0.05	<0.005	1	0.7	0.8
3346381	Drill Core	63.9	1.2	0.06	<0.005	<1	<0.5	<0.5
3346382	Drill Core	89.4	1.4	0.05	<0.005	<1	<0.5	<0.5
3346383	Drill Core	91.2	1.9	<0.05	<0.005	<1	<0.5	<0.5
3346384	Drill Core	103.4	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346385	Drill Core	87.9	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346386	Drill Core	107.5	1.8	<0.05	<0.005	<1	<0.5	<0.5
3346387	Drill Core	89.6	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346388	Drill Core	79.6	1.2	0.06	<0.005	<1	<0.5	<0.5
3346389	Drill Core	98.7	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346390	Rock	0.3	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346391	Drill Core	90.5	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346392	Drill Core	101.1	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346393	Drill Core	100.3	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346394	Drill Core	106.6	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346395	Drill Core	113.0	1.8	0.06	<0.005	<1	<0.5	<0.5
3346396	Drill Core	103.4	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346397	Drill Core	120.3	1.8	<0.05	<0.005	<1	<0.5	0.5
3346398	Drill Core	108.6	1.9	<0.05	<0.005	<1	<0.5	<0.5
3346399	Drill Core	85.3	1.0	0.07	<0.005	<1	0.8	<0.5
3346400	Rock Pulp	189.1	2.4	0.10	0.233	2	<0.5	0.8
3346401	Drill Core	92.6	1.0	0.07	<0.005	<1	<0.5	<0.5
3346402	Drill Core	152.4	1.7	<0.05	<0.005	<1	<0.5	0.8
3346403	Drill Core	139.7	1.7	<0.05	<0.005	<1	<0.5	0.9
3346404	Drill Core	180.7	2.0	<0.05	<0.005	<1	<0.5	1.0

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	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346405	Drill Core	2.31	0.025	4.6	31.5	8.2	59	0.2	0.9	8.6	685	2.93	14	1.6	3.2	205	0.1	1.4	0.3	49	1.62
3346406	Drill Core	4.03	0.025	3.2	47.8	8.8	79	0.2	3.2	13.2	1127	3.92	15	1.2	2.8	242	0.1	1.7	0.2	109	2.02
3346407	Drill Core	4.03	0.014	4.3	9.4	7.8	60	<0.1	0.4	2.6	851	2.30	5	1.5	3.9	271	<0.1	0.8	<0.1	20	1.45
3346408	Drill Core	4.11	0.049	7.8	11.6	8.7	51	<0.1	0.3	3.1	822	2.20	11	1.7	3.1	286	<0.1	0.8	<0.1	24	2.13
3346409	Drill Core	4.26	0.009	4.5	14.5	10.5	74	<0.1	0.6	3.0	774	2.28	4	1.6	3.6	364	<0.1	0.8	<0.1	27	1.64
3346410	Rock	1.41	<0.005	0.1	0.6	0.4	2	<0.1	0.7	0.3	137	0.10	<1	0.1	<0.1	83	<0.1	<0.1	<0.1	<1	32.33
3346411	Drill Core	4.19	0.024	3.7	239.9	10.0	129	0.6	8.3	25.2	2125	7.29	19	1.0	1.9	532	<0.1	2.2	0.3	262	4.26
3346412	Drill Core	3.41	0.012	4.5	135.8	6.8	57	0.2	1.6	9.4	799	3.26	8	2.1	3.9	424	0.1	1.3	0.3	77	1.74
3346413	Drill Core	3.33	0.008	4.7	30.1	5.2	35	<0.1	0.4	4.3	533	2.32	3	2.1	4.5	359	<0.1	1.1	<0.1	50	1.63
3346414	Drill Core	3.06	0.011	2.3	81.7	6.8	110	0.2	9.2	25.0	2089	7.03	9	1.0	2.0	664	0.1	2.7	<0.1	276	4.96
3346415	Core DUP		0.012	2.5	67.9	6.2	97	0.2	8.8	23.1	2078	6.99	9	0.9	2.0	659	<0.1	2.8	<0.1	274	4.80
3346416	Drill Core	5.12	0.007	2.2	45.9	5.1	64	0.1	17.7	22.4	1608	6.67	12	0.9	1.7	848	<0.1	2.7	<0.1	278	5.90
3346417	Drill Core	4.77	0.008	2.3	62.7	5.2	68	0.1	19.0	24.8	1649	6.84	8	0.9	1.7	668	<0.1	2.8	<0.1	272	5.84
3346418	Drill Core	3.16	0.010	4.2	7.7	6.1	29	<0.1	1.1	7.6	573	2.18	5	1.9	3.7	319	<0.1	1.0	<0.1	65	1.69
3346419	Drill Core	4.50	0.005	3.9	5.1	5.3	24	<0.1	0.7	4.9	557	2.27	4	2.0	4.2	345	<0.1	1.3	<0.1	50	1.74
3346420	Rock Pulp	0.11	0.298	10.3	2219.2	7.0	53	0.5	11.6	15.0	638	5.56	16	1.3	1.7	550	0.3	0.9	0.2	225	2.82
3346421	Drill Core	4.45	0.019	3.5	221.0	6.9	45	0.4	4.7	20.4	973	3.94	10	1.8	3.6	387	<0.1	1.6	0.2	111	2.92
3346422	Drill Core	4.86	0.010	2.7	201.4	6.7	111	0.3	8.3	29.5	1810	6.40	6	0.9	2.0	605	0.1	2.2	<0.1	251	6.13
3346423	Drill Core	4.77	<0.005	2.2	162.0	7.0	120	0.2	7.6	29.3	1630	6.66	8	1.1	2.2	599	<0.1	1.7	<0.1	249	5.06
3346424	Drill Core	4.42	0.007	2.4	171.2	6.6	115	0.2	8.0	28.7	1516	7.01	4	1.0	2.1	636	0.1	1.6	<0.1	265	5.18
3346425	Drill Core	4.20	0.012	2.5	173.0	6.3	117	0.2	8.5	30.9	1520	6.75	4	0.9	2.0	571	<0.1	1.4	<0.1	259	5.44
3346426	Drill Core	4.68	0.016	1.9	183.5	7.2	120	0.2	9.0	29.1	1525	6.76	7	0.9	2.0	569	<0.1	1.7	<0.1	256	5.40
3346427	Drill Core	4.67	0.015	1.8	184.5	13.9	110	0.2	7.8	33.9	1586	7.20	8	1.1	2.1	855	0.2	2.9	<0.1	271	6.71
3346428	Drill Core	4.23	0.010	2.3	177.0	6.3	115	0.2	8.3	30.2	1558	7.07	5	1.0	2.2	588	<0.1	0.9	<0.1	270	5.88
3346429	Drill Core	3.81	0.009	2.0	198.2	7.3	141	0.2	8.2	28.3	1588	6.81	6	1.1	2.1	600	<0.1	1.2	<0.1	262	5.58
3346430	Rock	1.46	<0.005	<0.1	2.4	0.5	4	<0.1	0.5	0.4	134	0.10	1	<0.1	<0.1	96	<0.1	<0.1	<0.1	<1	33.43
3346431	Drill Core	4.61	0.009	5.2	35.3	7.8	30	0.1	2.0	8.7	676	2.51	7	2.3	4.6	317	0.2	1.1	<0.1	63	2.14
3346432	Drill Core	4.47	0.013	2.4	169.1	8.5	132	0.2	8.2	27.6	1675	7.00	7	1.0	2.2	657	0.1	2.3	<0.1	274	5.56
3346433	Drill Core	4.25	0.015	2.6	143.8	8.8	118	0.2	9.1	25.3	1771	7.00	8	1.0	2.2	710	<0.1	2.8	<0.1	273	5.96
3346434	Drill Core	4.89	0.010	2.3	185.4	6.1	124	0.2	8.9	28.5	1511	6.82	5	1.1	2.2	601	0.1	1.4	<0.1	266	5.09

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346405	Drill Core	0.057	12.6	4	0.54	74	0.210	7.91	2.009	5.64	1.7	67.6	25	1.0	12.5	9.2	0.6	<1	3	8.7	1.5
3346406	Drill Core	0.100	14.3	4	0.92	112	0.266	8.76	2.125	5.38	1.2	45.7	27	1.3	15.9	8.5	0.6	1	8	12.1	1.6
3346407	Drill Core	0.053	17.2	3	0.37	1491	0.184	8.95	2.148	7.24	2.0	68.8	31	0.9	15.7	11.1	0.7	2	2	5.4	0.5
3346408	Drill Core	0.049	13.3	2	0.34	149	0.156	8.24	1.374	8.16	1.3	81.3	26	0.7	13.3	8.7	0.6	1	2	5.4	1.2
3346409	Drill Core	0.050	17.1	2	0.40	1410	0.192	8.65	2.276	8.05	1.4	80.4	32	1.0	15.2	10.7	0.7	2	2	5.9	0.6
3346410	Rock	0.006	1.2	<1	2.40	13	0.005	0.05	0.021	0.02	0.1	1.5	<1	<0.1	2.0	0.1	<0.1	<1	<1	0.9	<0.1
3346411	Drill Core	0.174	9.9	5	2.26	141	0.448	8.86	2.091	3.89	1.6	30.9	19	0.8	17.2	5.6	0.3	<1	18	16.3	1.5
3346412	Drill Core	0.067	13.8	3	0.74	489	0.264	8.29	2.695	5.63	1.2	85.4	26	1.1	15.8	10.8	0.7	<1	5	7.2	0.8
3346413	Drill Core	0.052	13.9	3	0.41	1472	0.234	8.27	3.028	5.78	1.0	83.6	26	0.9	15.5	10.7	0.7	1	3	4.0	0.5
3346414	Drill Core	0.186	11.6	5	2.20	1533	0.490	8.95	2.430	3.89	1.6	34.5	22	0.8	18.6	5.8	0.3	2	20	15.7	0.7
3346415	Core DUP	0.179	10.4	5	2.23	1441	0.495	8.98	2.431	3.70	1.3	31.8	21	0.8	17.9	5.9	0.3	2	18	13.9	0.7
3346416	Drill Core	0.201	12.8	23	2.41	916	0.761	8.57	1.882	3.90	2.4	43.8	28	1.3	22.5	8.6	0.5	1	22	13.7	0.2
3346417	Drill Core	0.205	13.6	24	2.32	974	0.738	8.50	1.919	4.43	2.5	47.0	29	1.1	24.6	9.1	0.5	1	23	16.9	0.3
3346418	Drill Core	0.056	12.9	3	0.59	513	0.243	7.90	1.879	7.54	1.5	80.5	25	1.1	15.3	10.5	0.7	2	4	3.3	0.6
3346419	Drill Core	0.055	14.2	3	0.52	1609	0.249	8.54	2.773	5.88	1.2	71.1	27	1.0	16.4	11.8	0.7	<1	4	5.4	0.3
3346420	Rock Pulp	0.121	11.2	22	1.21	1342	0.330	8.95	2.979	5.26	0.8	41.6	22	2.3	20.4	2.9	0.1	<1	11	12.6	0.3
3346421	Drill Core	0.083	12.1	9	1.08	761	0.356	8.31	2.604	4.95	1.3	60.0	24	1.0	16.3	10.1	0.7	1	9	8.3	0.8
3346422	Drill Core	0.179	10.5	6	2.02	1286	0.477	8.75	2.426	3.09	1.5	33.5	21	0.7	18.1	5.4	0.3	<1	18	12.5	0.2
3346423	Drill Core	0.182	11.4	5	2.06	1404	0.476	8.93	2.647	3.05	1.0	47.7	22	0.8	18.7	6.1	0.4	<1	17	11.4	0.3
3346424	Drill Core	0.194	11.3	6	2.15	1504	0.494	8.92	2.551	2.97	0.6	49.0	22	0.8	19.2	6.0	0.4	2	19	11.6	<0.1
3346425	Drill Core	0.185	11.1	5	2.09	1437	0.493	8.90	2.530	3.09	0.5	50.6	22	0.9	19.7	6.1	0.3	<1	19	11.6	<0.1
3346426	Drill Core	0.193	10.9	5	2.12	1414	0.492	9.48	2.581	3.16	0.8	42.7	22	0.8	18.8	6.1	0.3	<1	19	12.2	<0.1
3346427	Drill Core	0.191	11.1	6	2.05	1273	0.491	9.01	2.372	2.40	0.7	45.8	22	0.7	19.7	5.7	0.3	1	19	11.0	0.3
3346428	Drill Core	0.191	10.8	5	2.24	1410	0.494	9.87	2.572	3.29	0.5	54.6	21	0.8	19.2	6.3	0.3	<1	19	12.9	<0.1
3346429	Drill Core	0.185	10.0	5	2.16	1512	0.494	9.80	2.474	3.56	0.7	50.3	21	0.8	17.8	6.1	0.3	1	18	12.0	0.1
3346430	Rock	0.007	1.2	1	2.18	14	0.005	0.04	0.027	0.02	<0.1	1.6	1	<0.1	2.6	0.1	<0.1	<1	<1	0.7	<0.1
3346431	Drill Core	0.050	12.7	3	0.60	381	0.223	8.46	3.127	5.68	1.2	97.2	25	1.0	14.2	10.2	0.8	1	4	3.4	0.7
3346432	Drill Core	0.188	11.9	5	2.16	1547	0.475	9.44	2.332	3.75	1.1	46.1	23	0.8	19.2	6.3	0.3	1	18	12.7	<0.1
3346433	Drill Core	0.176	10.4	5	2.16	1350	0.486	9.19	2.321	3.26	0.9	38.9	21	0.8	17.9	6.0	0.3	<1	17	11.0	0.4
3346434	Drill Core	0.188	11.3	5	2.15	1516	0.480	8.94	2.539	3.14	0.6	49.8	22	0.7	18.4	6.4	0.3	2	18	12.4	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346405	Drill Core	153.3	1.6	<0.05	<0.005	<1	<0.5	0.9
3346406	Drill Core	173.1	1.2	0.05	<0.005	<1	<0.5	0.9
3346407	Drill Core	183.8	1.5	<0.05	<0.005	<1	<0.5	1.0
3346408	Drill Core	186.1	1.8	<0.05	<0.005	2	<0.5	1.2
3346409	Drill Core	162.3	1.8	<0.05	<0.005	<1	<0.5	1.4
3346410	Rock	0.6	<0.1	<0.05	<0.005	<1	0.7	<0.5
3346411	Drill Core	115.4	1.0	0.07	<0.005	<1	<0.5	0.6
3346412	Drill Core	121.9	2.1	<0.05	<0.005	<1	<0.5	0.7
3346413	Drill Core	107.5	1.9	<0.05	<0.005	<1	<0.5	0.6
3346414	Drill Core	98.3	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346415	Core DUP	95.3	1.2	0.07	<0.005	<1	0.6	<0.5
3346416	Drill Core	73.4	1.6	<0.05	<0.005	<1	<0.5	<0.5
3346417	Drill Core	93.0	1.5	0.07	<0.005	<1	<0.5	0.5
3346418	Drill Core	135.4	1.9	<0.05	<0.005	<1	<0.5	0.7
3346419	Drill Core	109.5	1.8	<0.05	<0.005	<1	<0.5	0.5
3346420	Rock Pulp	104.2	1.1	0.11	0.042	4	<0.5	<0.5
3346421	Drill Core	92.9	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346422	Drill Core	71.6	1.1	0.07	<0.005	<1	<0.5	<0.5
3346423	Drill Core	73.0	1.5	<0.05	<0.005	<1	0.7	<0.5
3346424	Drill Core	66.4	1.8	<0.05	<0.005	<1	<0.5	<0.5
3346425	Drill Core	72.5	1.6	<0.05	<0.005	<1	<0.5	<0.5
3346426	Drill Core	68.4	1.4	0.05	<0.005	<1	<0.5	<0.5
3346427	Drill Core	54.9	1.5	<0.05	<0.005	1	<0.5	<0.5
3346428	Drill Core	71.4	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346429	Drill Core	75.0	1.6	<0.05	<0.005	<1	<0.5	<0.5
3346430	Rock	0.6	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346431	Drill Core	92.0	2.5	<0.05	<0.005	<1	<0.5	<0.5
3346432	Drill Core	80.5	1.5	<0.05	<0.005	<1	<0.5	<0.5
3346433	Drill Core	65.2	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346434	Drill Core	69.4	1.5	<0.05	<0.005	1	0.6	<0.5

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346435	Drill Core	4.36	0.032	2.5	164.4	6.4	112	0.2	7.5	27.9	1568	7.04	5	1.0	2.4	790	0.1	1.7	<0.1	268	5.77
3346436	Drill Core	4.34	0.020	2.3	186.8	6.9	101	0.2	8.1	30.7	1462	6.88	6	1.1	2.7	653	0.2	2.3	<0.1	264	5.64
3346437	Drill Core	4.31	0.009	8.4	295.1	8.4	113	0.4	7.8	25.6	1585	6.68	7	1.0	2.1	640	0.3	3.3	<0.1	269	6.17
3346438	Drill Core	4.48	0.017	2.7	190.1	7.6	96	0.2	8.7	26.0	1577	6.91	7	1.1	2.2	1034	<0.1	3.3	<0.1	273	6.35
3346439	Drill Core	4.28	0.016	2.1	155.9	8.7	115	0.2	10.2	27.8	1645	6.65	6	0.9	2.1	628	<0.1	2.3	<0.1	261	5.82
3346440	Rock Pulp	0.13	0.217	97.7	2764.2	23.5	80	0.5	64.3	16.1	562	4.45	23	5.8	20.7	361	0.1	2.7	0.9	126	2.70
3346441	Drill Core	4.72	0.013	2.2	156.1	8.6	126	0.2	8.4	24.9	1633	6.67	6	1.0	2.1	630	<0.1	1.7	<0.1	256	5.15
3346442	Drill Core	4.26	0.009	2.1	146.8	7.1	103	0.2	8.1	27.1	1532	6.78	7	1.0	2.3	587	<0.1	2.0	<0.1	260	5.55
3346443	Drill Core	5.06	0.009	1.7	172.8	5.8	109	0.2	8.5	28.6	1554	6.88	3	1.0	2.1	545	0.1	1.6	<0.1	264	5.13
3346444	Drill Core	4.34	0.022	2.0	181.3	7.8	129	0.3	8.2	23.9	1570	6.72	7	1.0	2.2	634	<0.1	1.9	<0.1	262	5.24
3346445	Drill Core	4.43	0.018	2.4	173.8	8.1	117	0.3	7.7	31.0	1761	6.80	11	1.2	2.5	682	0.1	2.6	<0.1	281	5.91
3346446	Drill Core	4.48	0.013	2.7	168.1	7.1	127	0.2	9.3	27.9	1515	6.90	4	1.2	2.4	723	<0.1	1.9	<0.1	278	5.69
3346447	Drill Core	4.84	0.013	2.3	166.6	7.8	127	0.2	9.9	28.3	1481	6.87	5	1.0	2.2	592	<0.1	2.0	<0.1	280	5.29
3346448	Drill Core	4.32	0.015	2.3	161.8	7.7	142	0.2	10.6	26.7	1543	6.82	5	1.1	2.4	586	0.2	1.7	<0.1	268	5.05
3346449	Drill Core	3.65	0.030	2.1	221.1	8.6	125	0.4	10.0	27.1	1678	6.79	9	1.1	2.4	667	0.1	2.6	<0.1	272	5.66
3346450	Rock	1.36	<0.005	<0.1	0.9	0.8	2	<0.1	0.8	0.4	136	0.13	<1	0.1	<0.1	82	<0.1	<0.1	<0.1	1	30.89
3346451	Drill Core	4.37	0.014	2.4	202.6	8.4	124	0.3	8.4	25.8	1584	6.53	7	1.0	2.1	670	<0.1	3.3	<0.1	263	4.68
3346452	Drill Core	2.49	0.034	2.7	264.5	8.1	91	0.4	8.7	34.6	1530	6.69	10	0.9	2.3	615	<0.1	2.5	<0.1	260	4.63
3346453	Drill Core	2.12	0.022	2.6	137.1	6.0	114	0.2	9.7	32.7	1671	6.90	8	1.1	2.2	644	<0.1	2.2	<0.1	272	4.48
3346454	Drill Core	4.12	0.053	5.4	93.4	6.9	113	0.2	7.4	34.8	1599	6.64	9	1.2	1.7	474	<0.1	1.5	<0.1	274	3.95
3346455	Core DUP		0.059	7.1	94.3	7.0	113	0.2	8.2	35.9	1627	6.80	9	1.3	1.7	482	<0.1	1.5	<0.1	279	4.01
3346456	Drill Core	4.34	0.381	6.1	128.9	8.2	123	0.4	8.8	31.0	1452	6.66	6	1.1	1.9	556	<0.1	1.8	<0.1	259	5.55
3346457	Drill Core	4.42	0.022	1.9	206.0	7.7	114	0.4	7.6	34.1	1503	6.73	6	1.0	2.0	669	0.2	2.3	<0.1	267	5.16
3346458	Drill Core	4.42	0.018	13.5	146.8	7.6	110	0.2	8.7	25.9	1606	6.32	8	1.7	1.9	575	0.1	1.6	<0.1	259	4.95
3346459	Drill Core	4.16	0.011	2.2	129.8	9.2	95	0.2	8.5	22.9	1688	6.89	9	1.0	2.2	903	<0.1	3.2	<0.1	276	5.87
3346460	Rock Pulp	0.13	0.671	329.8	5024.5	21.7	73	1.4	34.8	18.5	525	4.69	61	5.5	19.5	398	0.6	4.0	1.8	119	2.53
3346461	Drill Core	4.80	0.020	2.4	167.4	6.7	114	0.2	8.7	26.8	1581	6.68	5	1.0	2.1	659	0.1	1.9	<0.1	262	4.82
3346462	Drill Core	3.80	0.019	3.1	143.7	6.8	119	0.3	8.4	30.8	1586	6.66	8	1.0	1.9	528	0.3	2.4	<0.1	255	5.06
3346463	Drill Core	4.35	0.015	1.9	178.2	7.2	160	0.2	9.1	29.8	1684	7.22	8	0.9	2.0	700	<0.1	3.5	<0.1	280	4.24
3346464	Drill Core	4.59	0.013	1.8	149.9	7.5	111	0.1	9.3	26.3	1525	6.88	8	0.9	2.1	861	0.2	4.2	<0.1	275	5.46

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346435	Drill Core	0.178	10.6	5	2.14	1337	0.485	9.14	2.537	2.86	0.6	48.0	21	0.7	18.5	6.4	0.3	<1	17	12.2	<0.1
3346436	Drill Core	0.204	12.3	5	2.18	1370	0.479	9.35	2.655	3.05	0.7	52.0	24	0.9	20.0	6.6	0.3	<1	18	14.4	0.1
3346437	Drill Core	0.166	10.8	5	2.14	1311	0.479	8.78	2.495	2.99	1.3	39.9	23	0.8	18.5	6.1	0.3	<1	18	13.2	0.2
3346438	Drill Core	0.175	10.2	6	2.02	1127	0.466	9.14	2.157	2.81	0.8	37.9	22	0.9	17.7	6.0	0.3	<1	17	10.4	0.2
3346439	Drill Core	0.173	10.9	14	2.23	1360	0.470	8.69	2.355	2.78	1.1	35.8	21	0.9	17.4	5.9	0.3	<1	18	17.6	0.2
3346440	Rock Pulp	0.100	40.1	86	1.53	1112	0.489	8.22	2.011	3.66	4.4	75.4	82	3.8	27.4	18.7	1.3	3	14	34.1	0.3
3346441	Drill Core	0.166	10.9	6	2.17	1474	0.470	8.74	2.394	3.13	0.7	41.7	22	0.7	18.4	5.9	0.3	1	18	15.1	0.1
3346442	Drill Core	0.167	11.0	6	2.16	1335	0.483	8.78	2.605	2.89	1.1	44.9	21	0.9	18.4	6.1	0.3	<1	18	13.0	0.1
3346443	Drill Core	0.179	10.2	6	2.19	1346	0.487	9.20	2.521	3.22	0.6	46.7	20	0.8	17.9	5.7	0.3	1	18	11.7	<0.1
3346444	Drill Core	0.183	10.9	5	2.23	1350	0.494	8.96	2.567	2.90	0.8	44.9	21	0.9	18.2	6.5	0.3	1	18	12.2	<0.1
3346445	Drill Core	0.182	11.5	4	2.22	1404	0.489	8.93	2.414	2.93	1.3	39.2	23	1.0	19.3	6.7	0.4	1	17	12.4	0.5
3346446	Drill Core	0.171	11.7	6	2.28	1315	0.498	9.35	2.436	3.30	0.7	53.0	24	1.0	19.3	6.9	0.4	1	18	12.4	<0.1
3346447	Drill Core	0.182	11.4	7	2.28	1413	0.491	9.10	2.459	3.40	0.9	52.7	23	0.8	18.4	6.6	0.3	1	18	13.1	0.2
3346448	Drill Core	0.182	10.7	7	2.28	1463	0.497	9.70	2.478	3.68	1.7	47.5	23	1.0	19.0	6.5	0.3	1	18	15.6	<0.1
3346449	Drill Core	0.176	11.5	6	2.16	1436	0.500	8.82	2.349	3.33	1.3	36.7	24	0.9	19.4	6.7	0.4	1	18	11.8	0.3
3346450	Rock	0.006	1.1	<1	2.70	12	0.004	0.05	0.029	<0.01	<0.1	1.5	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.0	<0.1
3346451	Drill Core	0.178	11.1	6	2.13	1528	0.469	8.67	2.561	3.35	2.1	33.1	23	0.7	17.9	6.0	0.4	<1	17	14.1	0.3
3346452	Drill Core	0.177	10.9	6	2.05	1247	0.468	8.67	2.622	3.77	1.7	29.9	23	0.9	17.6	5.8	0.3	1	17	13.5	0.8
3346453	Drill Core	0.179	10.9	6	2.13	439	0.479	8.75	2.397	4.09	2.2	31.5	22	0.9	18.9	6.1	0.3	1	17	16.2	1.0
3346454	Drill Core	0.163	9.8	5	2.24	87	0.447	8.44	2.222	4.92	2.8	24.9	20	0.9	17.1	5.4	0.3	1	17	16.5	2.0
3346455	Core DUP	0.167	9.7	5	2.27	86	0.470	8.62	2.274	5.04	2.9	25.6	20	0.8	17.6	5.4	0.3	1	18	14.8	1.8
3346456	Drill Core	0.164	10.2	5	2.13	970	0.419	8.31	2.532	4.07	11.2	28.1	20	0.8	17.1	4.6	0.3	<1	17	16.8	0.8
3346457	Drill Core	0.151	10.5	5	2.20	1368	0.431	8.45	2.633	3.41	3.1	33.9	20	0.8	17.1	5.0	0.2	1	17	15.0	0.8
3346458	Drill Core	0.159	10.0	5	2.18	833	0.450	8.33	2.331	4.78	3.3	29.4	22	0.6	16.9	5.8	0.3	2	17	15.8	0.9
3346459	Drill Core	0.164	11.0	6	2.44	1370	0.473	8.95	1.980	3.28	1.4	34.2	22	0.8	18.1	6.1	0.3	<1	17	8.1	0.3
3346460	Rock Pulp	0.105	37.5	66	1.39	342	0.470	7.57	1.935	3.47	3.4	85.3	78	3.5	24.8	19.7	1.4	3	12	28.4	0.8
3346461	Drill Core	0.169	10.9	5	2.12	1478	0.464	8.60	2.152	3.57	0.8	41.9	22	0.7	17.4	5.9	0.3	2	17	11.5	0.2
3346462	Drill Core	0.154	10.4	5	2.18	420	0.427	8.45	2.222	4.14	3.7	25.4	22	0.9	16.9	5.5	0.3	1	16	14.8	1.0
3346463	Drill Core	0.186	11.1	5	2.40	1739	0.475	9.51	2.665	3.87	2.0	34.7	24	0.7	18.5	5.6	0.3	1	20	15.4	<0.1
3346464	Drill Core	0.180	10.9	5	2.23	1634	0.477	9.00	2.461	3.34	1.7	36.9	22	0.8	18.3	5.8	0.3	<1	20	13.2	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346435	Drill Core	61.8	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346436	Drill Core	66.7	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346437	Drill Core	68.7	1.3	<0.05	0.009	<1	<0.5	<0.5
3346438	Drill Core	58.8	1.4	0.06	<0.005	<1	0.5	<0.5
3346439	Drill Core	57.5	1.3	0.06	0.005	<1	<0.5	<0.5
3346440	Rock Pulp	207.3	2.3	0.12	<0.005	2	<0.5	1.1
3346441	Drill Core	69.3	1.4	0.07	<0.005	<1	<0.5	<0.5
3346442	Drill Core	63.3	1.6	<0.05	<0.005	2	<0.5	<0.5
3346443	Drill Core	73.2	1.6	0.06	<0.005	<1	<0.5	<0.5
3346444	Drill Core	66.4	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346445	Drill Core	65.1	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346446	Drill Core	77.1	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346447	Drill Core	76.1	1.6	0.07	<0.005	<1	<0.5	<0.5
3346448	Drill Core	76.3	1.6	0.07	<0.005	<1	<0.5	<0.5
3346449	Drill Core	68.0	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346450	Rock	0.2	<0.1	<0.05	<0.005	1	4.8	<0.5
3346451	Drill Core	62.0	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346452	Drill Core	73.8	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346453	Drill Core	83.4	1.1	<0.05	<0.005	<1	<0.5	<0.5
3346454	Drill Core	91.0	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346455	Core DUP	91.6	0.9	<0.05	<0.005	2	<0.5	<0.5
3346456	Drill Core	79.2	0.8	<0.05	<0.005	<1	<0.5	<0.5
3346457	Drill Core	68.0	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346458	Drill Core	107.2	1.0	0.06	0.006	<1	<0.5	0.5
3346459	Drill Core	64.9	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346460	Rock Pulp	192.4	2.5	0.15	0.227	5	0.7	1.0
3346461	Drill Core	81.8	1.3	0.08	<0.005	<1	<0.5	<0.5
3346462	Drill Core	76.8	0.9	<0.05	<0.005	2	<0.5	<0.5
3346463	Drill Core	70.9	1.4	0.05	<0.005	<1	<0.5	<0.5
3346464	Drill Core	68.2	1.3	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346465	Drill Core	4.57	0.009	1.5	210.3	7.8	104	0.3	9.2	22.7	1513	6.58	9	0.8	1.8	720	0.1	2.9	<0.1	259	5.46
3346466	Drill Core	4.31	0.024	2.4	132.5	8.1	96	0.2	7.1	33.5	1598	6.82	10	0.8	1.9	871	<0.1	4.0	<0.1	287	5.63
3346467	Drill Core	4.60	0.014	1.8	150.7	6.6	132	0.2	8.4	27.1	1532	6.89	7	0.9	2.0	737	<0.1	2.6	<0.1	269	4.43
3346468	Drill Core	4.23	0.020	7.4	238.2	7.9	126	0.4	7.6	29.1	1655	6.35	14	1.0	1.5	331	0.1	1.4	<0.1	248	5.28
3346469	Drill Core	3.31	0.015	1.6	131.5	7.9	111	0.2	8.1	27.6	1696	6.48	10	0.8	1.9	358	0.2	1.6	<0.1	259	5.03
3346470	Rock	1.36	<0.005	<0.1	1.1	0.5	3	<0.1	1.2	0.3	149	0.10	<1	0.1	<0.1	87	<0.1	<0.1	<0.1	<1	34.03
3346471	Drill Core	1.86	0.031	4.3	113.6	9.4	87	0.2	6.3	19.4	1219	5.12	5	1.2	2.2	306	<0.1	1.6	<0.1	199	3.73
3346472	Drill Core	1.84	0.016	2.6	111.7	7.1	62	0.2	5.3	37.2	1081	5.14	7	1.1	2.2	544	<0.1	2.1	<0.1	205	4.76
3346473	Drill Core	2.09	0.066	4.8	96.7	6.2	82	0.2	6.7	18.9	1454	4.58	4	0.9	2.1	167	0.2	2.1	<0.1	187	5.62
3346474	Drill Core	3.06	0.070	2.7	143.4	5.9	99	0.3	8.5	25.3	2108	5.61	3	0.8	1.7	137	0.3	1.7	<0.1	271	7.35
3346475	Drill Core	3.76	0.123	1.5	101.9	5.6	108	0.2	18.8	26.9	1579	6.04	4	0.6	1.4	226	0.2	1.8	<0.1	243	6.47
3346476	Drill Core	3.93	0.012	1.3	97.2	4.4	109	0.1	29.1	27.3	1643	5.80	3	0.4	1.1	231	<0.1	1.3	<0.1	230	6.84
3346477	Drill Core	4.45	0.021	5.8	245.2	8.2	108	0.2	11.1	35.6	1568	6.75	3	0.4	0.9	339	0.1	2.2	<0.1	292	5.68
3346478	Drill Core	3.86	0.015	0.8	156.0	7.4	97	0.2	8.2	27.6	1563	6.39	4	0.4	1.1	340	0.1	2.4	<0.1	286	5.60
3346479	Drill Core	4.24	0.020	2.0	179.4	9.5	109	0.2	8.2	34.9	1526	6.81	3	0.5	1.2	352	0.2	2.4	<0.1	299	4.92
3346480	Rock Pulp	0.13	0.229	99.3	2826.1	23.3	84	0.4	69.4	17.9	574	4.52	20	5.8	19.8	368	0.4	2.5	0.9	128	2.62
3346481	Drill Core	4.41	0.027	14.5	254.1	12.2	133	0.3	10.8	33.9	1832	7.21	3	0.5	1.1	277	0.3	2.2	0.2	302	5.88
3346482	Drill Core	4.68	0.021	2.4	264.0	6.7	132	0.4	10.1	30.0	1760	6.72	3	0.4	1.1	249	0.1	2.4	<0.1	292	5.66
3346483	Drill Core	4.30	0.022	1.4	164.9	5.9	91	0.3	17.1	29.2	1499	6.14	4	0.5	1.2	256	<0.1	2.2	<0.1	251	5.30
3346484	Drill Core	4.39	0.014	1.7	119.0	5.6	113	0.1	39.1	27.7	1771	5.69	3	0.6	1.4	235	0.1	2.8	<0.1	239	6.58
3346485	Drill Core	2.81	0.096	1.2	135.6	7.4	84	1.1	10.9	29.2	1453	6.35	5	0.5	1.1	283	<0.1	2.7	<0.1	269	7.07
3346486	Drill Core	3.64	0.063	1.2	140.4	7.4	61	0.7	10.3	38.7	1414	5.59	9	0.2	0.5	305	0.2	3.0	0.1	269	8.40
3346487	Drill Core	4.72	0.013	1.2	104.1	5.6	78	0.1	10.3	28.3	1504	6.86	5	0.6	1.5	440	0.2	1.8	<0.1	288	6.00
3346488	Drill Core	4.26	0.017	2.0	163.5	22.0	76	0.5	9.1	38.4	1376	6.87	8	0.6	1.3	393	0.2	1.9	<0.1	282	5.91
3346489	Drill Core	4.12	0.011	2.0	229.2	12.5	110	0.3	9.8	26.4	1444	6.51	2	0.9	1.5	469	0.3	1.4	<0.1	281	5.56
3346490	Rock	1.47	0.005	<0.1	1.2	0.6	4	<0.1	0.2	0.8	132	0.11	2	0.1	<0.1	81	<0.1	0.1	<0.1	<1	30.90
3346491	Drill Core	3.83	0.016	1.9	397.5	14.1	155	0.4	9.1	33.5	1208	6.77	2	0.6	1.5	383	0.4	1.2	<0.1	280	4.25
3346492	Drill Core	4.15	0.166	1.2	202.0	8.7	102	0.4	8.3	27.6	1372	6.45	5	0.7	1.5	318	0.3	1.8	<0.1	271	5.39
3346493	Drill Core	4.01	0.044	1.7	131.7	7.4	101	0.2	8.4	29.8	1467	6.01	3	0.6	1.3	362	0.5	2.3	<0.1	265	5.68
3346494	Drill Core	4.65	0.010	1.1	99.7	10.1	86	0.1	7.9	28.1	1429	6.59	4	0.5	1.2	489	<0.1	1.5	<0.1	286	5.36

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346465	Drill Core	0.173	9.0	5	2.25	1494	0.478	9.76	2.423	3.47	1.3	34.6	19	0.7	17.0	5.8	0.3	1	17	11.9	<0.1
3346466	Drill Core	0.161	9.6	5	2.13	1267	0.456	8.81	2.518	2.93	1.5	29.7	21	0.7	17.7	5.2	0.3	<1	18	12.8	0.6
3346467	Drill Core	0.170	10.3	4	2.31	1404	0.460	9.44	2.479	3.40	1.1	36.4	22	0.7	18.3	5.7	0.3	<1	18	18.7	<0.1
3346468	Drill Core	0.161	9.4	4	2.34	451	0.345	7.84	2.016	3.38	1.9	19.2	20	0.8	14.6	4.1	0.2	2	16	23.7	1.9
3346469	Drill Core	0.156	9.8	5	2.29	1147	0.382	8.35	1.501	3.70	1.1	21.5	21	0.7	16.8	4.3	0.2	1	17	25.3	0.7
3346470	Rock	0.007	1.2	1	2.39	12	0.005	0.04	0.027	<0.01	<0.1	1.4	1	<0.1	2.1	0.1	<0.1	<1	<1	0.8	<0.1
3346471	Drill Core	0.133	10.8	5	1.92	1676	0.263	8.56	1.162	4.84	1.1	35.8	21	0.6	11.9	4.1	0.3	<1	13	19.7	0.6
3346472	Drill Core	0.173	12.2	3	1.63	835	0.317	10.86	2.636	4.05	1.2	17.7	25	0.7	11.9	5.3	0.3	<1	10	20.3	0.6
3346473	Drill Core	0.123	10.8	5	0.71	347	0.215	7.78	2.653	3.14	1.3	26.5	22	0.7	9.0	3.2	0.2	<1	12	6.3	0.7
3346474	Drill Core	0.122	9.7	6	0.74	595	0.173	7.30	1.476	3.70	1.3	21.3	19	0.8	8.9	1.8	0.1	<1	17	8.9	0.8
3346475	Drill Core	0.176	9.8	28	1.62	982	0.174	7.57	2.071	3.47	1.4	14.6	20	0.4	9.9	1.5	<0.1	1	18	8.3	0.8
3346476	Drill Core	0.144	7.4	46	1.95	1528	0.154	6.95	2.077	3.41	1.2	12.4	17	0.4	8.5	1.1	<0.1	<1	19	5.2	0.3
3346477	Drill Core	0.116	7.0	6	2.30	1263	0.241	7.65	1.714	4.20	0.7	11.3	15	0.4	8.7	1.7	<0.1	<1	22	10.4	0.7
3346478	Drill Core	0.153	7.6	4	2.12	1219	0.223	7.92	2.161	3.89	0.6	11.4	17	0.5	9.1	1.3	<0.1	<1	18	10.5	0.4
3346479	Drill Core	0.176	8.3	4	2.16	1193	0.276	7.88	2.276	3.57	0.8	11.5	18	0.4	9.9	1.6	<0.1	<1	18	8.3	0.6
3346480	Rock Pulp	0.104	30.7	87	1.50	1075	0.500	7.38	2.116	3.23	4.3	75.8	69	3.5	24.4	19.1	1.5	4	13	36.3	0.3
3346481	Drill Core	0.189	7.6	6	2.33	530	0.260	7.72	1.768	3.64	0.9	11.5	18	0.4	10.5	1.4	<0.1	2	21	10.8	0.9
3346482	Drill Core	0.148	7.6	6	2.06	911	0.264	7.84	1.569	3.77	0.7	12.9	17	0.5	9.3	1.8	0.1	1	20	12.7	0.7
3346483	Drill Core	0.165	7.7	23	2.05	776	0.228	7.58	1.642	3.61	0.6	12.4	17	0.5	8.8	1.9	0.1	1	19	13.7	0.9
3346484	Drill Core	0.155	9.2	62	2.34	1423	0.251	7.30	1.199	3.72	1.0	12.4	19	0.6	9.8	2.6	0.1	1	21	15.4	0.4
3346485	Drill Core	0.138	7.9	8	1.37	179	0.246	7.71	2.334	2.86	0.9	12.7	16	0.5	9.8	2.1	0.1	<1	20	14.4	1.5
3346486	Drill Core	0.132	6.7	5	1.20	158	0.251	7.36	2.294	2.54	0.9	6.2	15	0.5	9.5	1.9	0.1	1	18	16.2	2.1
3346487	Drill Core	0.153	9.2	5	2.56	1273	0.359	7.85	2.110	2.35	0.8	20.2	20	0.6	14.1	3.9	0.2	<1	20	29.4	0.2
3346488	Drill Core	0.153	9.0	4	2.34	121	0.381	8.09	1.972	2.55	1.2	17.6	19	0.7	14.2	4.1	0.3	<1	19	28.9	1.6
3346489	Drill Core	0.146	11.4	4	2.14	1555	0.257	8.20	2.462	2.84	1.0	16.6	22	0.5	12.4	2.4	0.2	<1	19	30.7	0.3
3346490	Rock	0.008	1.1	1	3.22	13	0.006	0.07	0.029	0.01	<0.1	1.4	<1	<0.1	2.0	<0.1	<0.1	<1	<1	1.4	<0.1
3346491	Drill Core	0.148	8.2	4	2.12	945	0.228	7.81	2.337	2.90	0.8	16.5	18	0.5	11.4	2.4	0.1	<1	18	34.9	0.4
3346492	Drill Core	0.159	10.4	4	1.64	1426	0.260	7.55	2.188	4.23	1.3	12.7	20	0.6	10.0	2.4	0.2	<1	17	16.2	0.5
3346493	Drill Core	0.139	8.7	3	1.82	1722	0.274	7.73	2.687	3.08	1.3	13.4	19	0.7	11.0	2.8	0.2	<1	17	14.8	0.4
3346494	Drill Core	0.135	8.7	4	2.38	1038	0.331	8.18	2.346	2.72	0.7	15.8	18	0.5	12.0	3.1	0.2	<1	18	26.6	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346465	Drill Core	63.6	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346466	Drill Core	52.2	0.9	<0.05	<0.005	1	<0.5	<0.5
3346467	Drill Core	68.2	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346468	Drill Core	76.6	0.6	<0.05	<0.005	3	<0.5	<0.5
3346469	Drill Core	100.0	0.6	<0.05	<0.005	2	<0.5	<0.5
3346470	Rock	0.2	<0.1	<0.05	<0.005	1	2.9	<0.5
3346471	Drill Core	108.8	0.9	<0.05	<0.005	<1	<0.5	<0.5
3346472	Drill Core	85.9	0.7	0.06	0.005	1	<0.5	<0.5
3346473	Drill Core	77.1	0.6	0.06	0.007	<1	0.6	<0.5
3346474	Drill Core	85.2	0.5	0.05	<0.005	2	0.8	<0.5
3346475	Drill Core	81.5	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346476	Drill Core	66.0	0.3	<0.05	0.011	<1	0.7	<0.5
3346477	Drill Core	93.6	0.4	<0.05	0.018	2	<0.5	<0.5
3346478	Drill Core	92.6	0.3	<0.05	<0.005	2	<0.5	<0.5
3346479	Drill Core	86.5	0.3	<0.05	0.005	<1	<0.5	<0.5
3346480	Rock Pulp	202.6	2.3	0.14	<0.005	2	0.7	1.1
3346481	Drill Core	96.7	0.4	<0.05	0.034	<1	<0.5	<0.5
3346482	Drill Core	92.0	0.4	<0.05	0.007	1	0.6	<0.5
3346483	Drill Core	93.3	0.5	<0.05	<0.005	2	<0.5	<0.5
3346484	Drill Core	98.7	0.4	0.05	<0.005	<1	0.6	<0.5
3346485	Drill Core	77.0	0.4	<0.05	<0.005	4	0.7	<0.5
3346486	Drill Core	71.9	0.3	<0.05	<0.005	2	0.7	<0.5
3346487	Drill Core	63.9	0.7	<0.05	<0.005	2	<0.5	<0.5
3346488	Drill Core	65.9	0.5	0.06	<0.005	1	0.9	<0.5
3346489	Drill Core	70.7	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346490	Rock	0.3	<0.1	<0.05	<0.005	<1	6.8	<0.5
3346491	Drill Core	70.6	0.5	<0.05	<0.005	1	<0.5	<0.5
3346492	Drill Core	84.9	0.4	<0.05	<0.005	<1	<0.5	<0.5
3346493	Drill Core	86.4	0.6	0.06	<0.005	<1	<0.5	<0.5
3346494	Drill Core	69.6	0.5	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346495	Core DUP		0.009	1.2	95.1	9.7	83	0.1	8.7	27.2	1435	6.58	3	0.5	1.3	504	<0.1	1.6	<0.1	284	5.43
3346496	Drill Core	4.56	0.007	0.4	133.0	6.6	90	0.1	10.4	32.5	1366	7.27	5	0.3	0.7	383	0.1	2.8	<0.1	337	5.92
3346497	Drill Core	4.52	0.021	0.5	573.4	11.5	98	0.5	11.8	39.6	1298	7.31	4	0.4	0.9	423	0.3	2.0	<0.1	327	5.89
3346498	Drill Core	4.84	0.026	0.6	419.5	6.3	122	0.5	13.1	45.4	1424	8.11	6	0.2	0.4	419	0.5	3.5	<0.1	420	7.04
3346499	Drill Core	4.57	0.012	0.7	229.9	8.0	100	0.2	12.6	40.5	1618	8.63	5	0.2	0.4	470	0.1	2.4	<0.1	417	7.18
3346500	Rock Pulp	0.13	0.665	347.2	5171.3	22.4	80	1.5	35.3	17.7	553	4.87	69	4.9	16.5	394	0.5	3.8	2.0	119	2.54
3346501	Drill Core	5.07	0.019	0.4	390.1	5.7	101	0.5	17.4	50.4	1672	9.37	4	0.2	0.3	391	0.2	2.0	<0.1	481	7.52
3346502	Drill Core	3.90	0.021	0.4	265.1	6.2	120	0.3	18.9	48.2	1872	8.54	7	0.5	0.7	330	<0.1	1.9	0.2	411	8.86
3346503	Drill Core	4.81	0.014	0.3	403.3	4.4	96	0.4	18.9	52.0	1584	9.80	8	0.1	0.3	846	<0.1	3.4	<0.1	476	7.97
3346504	Drill Core	5.24	0.019	0.3	319.4	4.5	97	0.4	26.0	54.9	1814	10.62	8	0.1	0.3	1035	0.2	3.7	<0.1	516	10.09
3346505	Drill Core	5.14	0.011	0.4	251.5	4.7	98	0.3	25.8	59.4	1675	10.16	14	0.2	0.4	869	<0.1	3.5	<0.1	493	8.83
3346506	Drill Core	4.17	0.010	0.5	104.1	4.2	109	0.2	25.7	55.0	1812	11.87	12	0.1	0.3	738	<0.1	4.3	<0.1	554	8.36
3346507	Drill Core	3.56	0.014	1.2	203.4	6.6	90	0.2	14.2	27.3	1490	6.35	7	0.8	1.7	708	0.2	3.4	<0.1	260	7.59
3346508	Drill Core	3.70	0.013	1.1	205.5	5.3	108	0.2	17.5	26.7	1579	7.33	3	0.7	1.4	468	0.1	2.4	<0.1	325	7.20
3346509	Drill Core	4.90	0.008	3.6	32.0	5.1	37	0.1	1.1	7.2	705	2.45	3	2.1	4.0	279	0.1	0.9	<0.1	58	3.32
3346510	Rock	1.20	<0.005	<0.1	1.2	0.3	2	<0.1	0.1	0.7	145	0.08	<1	<0.1	<0.1	97	<0.1	<0.1	<0.1	1	35.87
3346511	Drill Core	3.98	0.008	12.5	17.7	5.1	14	<0.1	0.4	4.0	528	1.96	2	2.9	4.9	224	<0.1	0.8	0.2	47	2.43
3346512	Drill Core	4.85	<0.005	2.1	85.7	10.3	100	0.1	6.9	20.7	1195	5.47	3	0.7	1.4	641	0.1	0.8	<0.1	199	4.23
3346513	Drill Core	2.85	0.010	1.9	117.7	5.6	83	<0.1	13.0	32.7	1152	5.67	3	0.8	1.5	635	<0.1	1.0	<0.1	202	4.19
3346514	Drill Core	2.99	0.005	1.2	75.7	2.7	99	0.1	172.6	44.1	1547	6.95	6	1.2	2.1	693	<0.1	1.8	<0.1	243	6.83
3346515	Drill Core	3.05	0.007	1.6	125.6	2.3	65	<0.1	177.7	48.5	1257	6.67	6	1.1	2.0	631	<0.1	1.5	<0.1	235	6.47
3346516	Drill Core	4.41	0.005	1.9	114.3	3.1	62	<0.1	174.8	45.5	1286	6.75	5	1.3	2.0	801	<0.1	1.9	<0.1	263	5.94
3346517	Drill Core	3.70	0.006	1.1	99.4	3.3	91	<0.1	177.5	42.8	1395	6.50	5	1.0	2.0	652	<0.1	1.0	<0.1	234	6.17
3346518	Drill Core	3.93	<0.005	3.3	23.6	4.6	22	<0.1	1.5	4.6	415	1.98	2	2.2	4.5	378	<0.1	0.4	<0.1	50	1.67
3346519	Drill Core	3.63	0.017	0.8	103.6	5.4	127	0.2	23.7	51.8	1589	8.89	8	0.3	0.4	503	<0.1	2.1	0.2	494	5.57
3346520	Rock Pulp	0.11	0.285	9.6	2241.0	7.7	53	0.5	11.7	15.9	636	5.57	14	1.3	1.8	588	<0.1	1.0	0.2	229	2.81
3346521	Drill Core	4.75	<0.005	0.3	34.9	4.6	78	<0.1	27.0	43.6	1503	9.44	8	0.2	0.4	1085	<0.1	3.6	<0.1	507	8.61
3346522	Drill Core	4.69	<0.005	0.3	27.2	4.2	93	<0.1	27.6	46.7	1577	8.71	5	0.3	0.6	898	<0.1	3.0	<0.1	428	8.26
3346523	Drill Core	4.64	<0.005	0.2	26.2	5.3	90	<0.1	24.9	44.7	1707	9.32	8	0.2	0.5	991	<0.1	3.9	<0.1	468	8.52
3346524	Drill Core	3.65	0.005	1.5	69.9	4.9	102	0.2	29.2	53.4	2106	9.49	6	0.6	0.5	616	<0.1	3.1	0.1	530	8.29

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346495	Core DUP	0.147	8.8	3	2.37	1057	0.328	8.09	2.351	2.68	0.5	18.1	18	0.7	12.3	3.2	0.2	<1	19	28.7	<0.1
3346496	Drill Core	0.151	8.6	5	2.40	791	0.341	8.19	1.949	2.84	0.5	8.9	18	0.5	9.0	2.0	0.1	<1	23	29.3	0.2
3346497	Drill Core	0.129	7.4	6	2.61	1079	0.305	8.14	2.125	2.56	0.4	9.0	16	0.5	10.2	2.0	0.1	<1	21	31.5	0.4
3346498	Drill Core	0.096	4.5	5	3.02	970	0.327	8.07	1.120	2.99	0.7	5.5	10	0.4	7.0	1.0	<0.1	2	26	35.4	0.6
3346499	Drill Core	0.144	6.4	4	3.22	775	0.382	7.42	1.477	2.26	0.4	7.3	15	0.5	11.3	1.2	<0.1	1	27	36.8	0.2
3346500	Rock Pulp	0.114	31.3	68	1.43	523	0.494	7.37	2.057	3.38	3.3	88.8	67	4.0	25.0	19.2	1.4	3	12	29.9	0.8
3346501	Drill Core	0.078	3.9	5	3.78	344	0.458	7.34	0.758	2.41	0.3	11.2	9	0.4	11.8	0.9	<0.1	<1	31	41.6	0.2
3346502	Drill Core	0.073	4.6	23	3.64	305	0.425	6.58	0.924	2.12	0.6	12.5	10	0.5	12.1	1.2	<0.1	2	31	38.6	1.4
3346503	Drill Core	0.031	3.0	13	4.04	326	0.526	8.14	1.009	1.80	0.5	15.8	7	0.5	11.6	1.1	<0.1	<1	34	29.7	<0.1
3346504	Drill Core	0.032	2.8	8	4.58	205	0.584	7.03	0.789	0.89	0.5	22.0	7	0.5	11.9	1.0	<0.1	1	38	23.2	0.2
3346505	Drill Core	0.047	3.1	5	4.25	366	0.566	7.10	1.014	1.25	0.6	19.7	8	0.6	11.0	1.3	<0.1	<1	42	23.1	0.1
3346506	Drill Core	0.033	2.5	8	4.95	332	0.622	6.59	1.016	0.96	0.5	18.5	6	0.7	11.1	1.0	<0.1	<1	48	22.3	<0.1
3346507	Drill Core	0.122	8.8	46	2.93	306	0.444	7.94	2.534	0.88	0.4	40.6	18	0.7	15.9	5.7	0.3	<1	23	20.4	<0.1
3346508	Drill Core	0.100	7.4	42	3.29	306	0.469	7.28	1.890	1.57	0.6	18.8	16	0.7	14.5	4.6	0.3	1	29	28.9	<0.1
3346509	Drill Core	0.039	10.8	2	0.83	668	0.171	7.38	2.588	5.87	0.7	81.9	21	0.8	11.1	8.7	0.6	2	4	5.2	0.6
3346510	Rock	0.006	1.2	<1	2.11	11	0.005	0.06	0.024	0.02	<0.1	1.2	<1	<0.1	2.1	<0.1	<0.1	<1	<1	0.7	<0.1
3346511	Drill Core	0.042	11.4	3	0.31	766	0.180	8.37	3.041	6.39	0.7	107.4	23	0.9	13.2	9.7	0.7	<1	3	2.2	0.6
3346512	Drill Core	0.187	12.0	5	1.71	1087	0.470	8.64	1.662	6.70	0.6	36.9	27	1.1	20.8	7.1	0.5	2	15	24.0	0.4
3346513	Drill Core	0.186	11.5	17	2.03	1046	0.593	8.34	2.059	5.46	1.1	32.2	27	1.2	20.7	8.5	0.5	2	15	25.0	0.5
3346514	Drill Core	0.209	9.4	357	6.29	1014	0.348	6.12	0.976	3.50	0.6	23.4	18	0.5	11.7	4.0	0.2	3	27	36.2	<0.1
3346515	Drill Core	0.195	9.2	381	6.44	1083	0.340	6.12	0.874	3.64	0.6	29.6	18	0.4	10.7	3.9	0.2	1	25	40.8	<0.1
3346516	Drill Core	0.201	8.9	364	6.42	1156	0.340	6.09	0.730	3.85	0.6	25.6	18	0.6	11.3	3.8	0.2	4	27	44.1	<0.1
3346517	Drill Core	0.192	9.6	383	6.18	1251	0.346	6.25	0.785	4.43	0.6	26.3	18	0.7	11.1	3.9	0.2	2	25	43.2	<0.1
3346518	Drill Core	0.042	13.0	3	0.46	1343	0.178	8.55	3.338	5.64	0.7	90.6	25	0.9	13.8	9.2	0.6	1	3	4.3	0.2
3346519	Drill Core	0.028	2.7	3	3.71	568	0.498	8.12	1.836	2.56	0.5	10.1	6	0.7	8.5	1.2	<0.1	<1	36	44.6	1.7
3346520	Rock Pulp	0.127	11.8	21	1.22	1496	0.331	8.91	2.964	5.28	0.9	42.2	24	2.5	21.1	2.9	0.2	2	11	13.5	0.2
3346521	Drill Core	0.029	2.6	3	3.97	387	0.540	8.32	0.883	1.85	0.5	18.2	6	0.5	9.5	1.3	<0.1	<1	38	35.4	<0.1
3346522	Drill Core	0.046	3.7	21	3.89	406	0.486	7.58	1.403	1.75	0.6	16.0	8	0.6	9.0	1.4	<0.1	<1	37	34.7	0.1
3346523	Drill Core	0.049	3.0	4	3.89	381	0.547	8.45	1.204	1.83	0.6	16.0	7	0.5	9.3	1.3	<0.1	<1	38	32.2	0.2
3346524	Drill Core	0.041	2.9	14	4.15	719	0.559	6.87	0.899	2.79	0.6	15.7	7	0.8	9.1	2.2	<0.1	3	41	33.3	0.9

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346495	Core DUP	69.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346496	Drill Core	90.0	0.3	<0.05	<0.005	<1	<0.5	<0.5
3346497	Drill Core	76.1	0.4	0.07	<0.005	<1	0.9	<0.5
3346498	Drill Core	104.4	0.2	<0.05	<0.005	<1	<0.5	<0.5
3346499	Drill Core	80.5	0.3	<0.05	<0.005	<1	<0.5	<0.5
3346500	Rock Pulp	181.1	2.9	0.07	0.253	3	0.5	1.1
3346501	Drill Core	85.5	0.3	0.11	<0.005	<1	<0.5	<0.5
3346502	Drill Core	71.0	0.4	0.10	<0.005	2	<0.5	<0.5
3346503	Drill Core	63.6	0.7	<0.05	<0.005	<1	1.5	<0.5
3346504	Drill Core	28.0	0.9	0.05	<0.005	<1	<0.5	<0.5
3346505	Drill Core	35.0	0.7	<0.05	<0.005	1	0.9	<0.5
3346506	Drill Core	27.0	0.8	<0.05	<0.005	<1	0.7	<0.5
3346507	Drill Core	15.7	1.4	<0.05	<0.005	<1	<0.5	<0.5
3346508	Drill Core	45.7	0.9	0.05	<0.005	<1	0.8	<0.5
3346509	Drill Core	79.6	1.9	<0.05	<0.005	<1	<0.5	<0.5
3346510	Rock	0.2	<0.1	<0.05	<0.005	<1	1.5	<0.5
3346511	Drill Core	97.9	2.3	<0.05	0.010	<1	<0.5	<0.5
3346512	Drill Core	149.2	0.9	<0.05	<0.005	<1	<0.5	0.6
3346513	Drill Core	107.3	1.3	0.08	<0.005	<1	<0.5	0.5
3346514	Drill Core	100.3	1.0	<0.05	<0.005	<1	1.2	0.6
3346515	Drill Core	87.0	1.0	<0.05	<0.005	<1	<0.5	<0.5
3346516	Drill Core	97.8	0.8	<0.05	<0.005	<1	0.5	<0.5
3346517	Drill Core	109.2	0.8	<0.05	<0.005	1	1.2	0.6
3346518	Drill Core	74.4	2.3	<0.05	<0.005	2	<0.5	<0.5
3346519	Drill Core	70.5	0.5	0.07	<0.005	3	0.7	<0.5
3346520	Rock Pulp	105.0	1.5	0.15	0.056	1	<0.5	<0.5
3346521	Drill Core	56.1	0.8	<0.05	<0.005	<1	1.7	<0.5
3346522	Drill Core	41.9	0.7	<0.05	<0.005	<1	<0.5	<0.5
3346523	Drill Core	51.2	0.7	0.07	<0.005	<1	1.0	<0.5
3346524	Drill Core	61.5	0.6	<0.05	0.020	2	2.0	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346525	Drill Core	3.66	0.006	0.5	75.1	4.5	103	0.1	46.3	48.0	1687	8.33	7	0.5	1.0	734	<0.1	3.9	<0.1	393	7.28
3346526	Drill Core	3.98	0.006	1.1	48.8	6.6	97	0.1	29.3	48.6	1502	9.40	6	0.2	0.3	730	0.1	3.1	<0.1	504	6.77
3346527	Drill Core	3.74	0.008	0.7	65.3	11.0	86	0.2	27.6	45.6	1471	8.57	6	0.4	0.5	1052	<0.1	3.2	0.1	444	7.44
3346528	Drill Core	3.90	0.007	1.6	137.1	5.0	103	0.1	148.2	46.4	1394	7.01	3	1.2	1.9	609	<0.1	2.2	<0.1	307	6.47
3346529	Drill Core	4.52	0.011	1.2	153.4	2.9	99	<0.1	140.4	49.9	1545	6.82	5	0.9	1.7	496	<0.1	1.2	<0.1	270	7.15
3346530	Rock	1.45	<0.005	<0.1	1.0	0.5	10	<0.1	1.3	0.5	132	0.11	<1	0.2	<0.1	78	<0.1	<0.1	<0.1	<1	32.76
3346531	Drill Core	5.11	0.006	0.9	87.0	7.0	89	<0.1	116.0	47.7	1497	6.88	4	0.8	1.3	539	<0.1	1.2	<0.1	294	7.83
3346532	Drill Core	5.61	0.006	0.9	76.2	6.0	85	0.1	161.6	46.7	1227	6.39	1	0.9	2.3	515	<0.1	1.2	<0.1	221	6.16
3346533	Drill Core	5.24	0.005	1.2	191.4	5.4	85	0.1	171.5	42.3	1361	6.60	2	1.2	2.0	482	<0.1	0.9	<0.1	253	6.42
3346534	Drill Core	5.18	0.005	0.8	165.9	6.8	99	0.1	168.8	46.6	1356	6.48	2	1.2	1.8	552	0.2	1.2	<0.1	243	6.49
3346535	Core DUP		<0.005	1.0	159.9	6.6	97	0.1	172.9	44.6	1373	6.50	2	1.1	1.9	532	<0.1	1.1	<0.1	246	6.29
3346536	Drill Core	3.52	0.011	47.6	232.4	6.5	100	0.3	154.9	44.9	1428	6.31	2	1.5	1.5	531	0.2	1.7	0.6	290	7.75
3346537	Drill Core	3.40	0.007	3.5	193.4	10.7	124	0.2	158.7	48.7	1572	6.64	2	1.3	1.7	494	0.2	2.0	0.2	271	7.64
3346538	Drill Core	4.49	0.014	1.9	241.3	6.5	67	0.1	9.4	28.1	1074	5.09	4	0.9	1.6	478	0.1	2.8	<0.1	201	4.84
3346539	Drill Core	4.36	0.007	2.1	134.0	6.7	54	0.1	5.9	19.6	1043	5.46	2	1.0	2.0	569	<0.1	2.0	<0.1	211	4.46
3346540	Rock Pulp	0.13	0.225	99.1	2652.1	23.2	80	0.4	60.1	16.0	551	4.47	21	5.4	19.0	358	0.3	2.6	0.9	126	2.58
3346541	Drill Core	4.04	0.014	1.0	115.7	9.6	50	0.2	5.5	22.2	1008	5.41	2	0.9	1.9	553	0.1	1.7	<0.1	215	4.23
3346542	Drill Core	3.80	0.007	1.3	115.9	8.3	52	0.2	6.1	23.4	1057	5.44	5	0.9	2.1	635	<0.1	1.8	<0.1	214	4.99
3346543	Drill Core	3.81	0.008	0.6	105.0	8.1	53	0.1	5.2	20.7	1024	5.11	3	0.8	1.8	440	0.1	2.7	<0.1	206	4.65
3346544	Drill Core	4.27	0.013	1.5	122.7	7.1	61	0.2	8.8	17.5	1171	3.92	3	0.8	1.9	362	0.3	3.0	<0.1	209	6.92

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346525	Drill Core	0.090	5.5	61	4.20	644	0.464	7.18	1.766	2.37	0.8	19.2	12	0.7	10.2	1.9	0.1	1	36	30.1	0.2
3346526	Drill Core	0.026	2.3	6	4.08	681	0.546	7.69	1.585	2.77	0.9	13.2	5	0.7	7.8	1.6	<0.1	<1	40	29.2	0.1
3346527	Drill Core	0.054	3.2	10	3.78	872	0.478	8.54	1.659	2.79	1.3	12.8	7	0.6	8.7	1.7	<0.1	2	32	32.7	0.2
3346528	Drill Core	0.181	8.2	297	5.63	1096	0.349	6.33	0.840	3.33	0.8	25.9	16	0.9	10.7	3.6	0.2	4	25	46.6	<0.1
3346529	Drill Core	0.186	7.8	263	5.41	824	0.325	6.20	0.802	2.66	0.6	20.9	16	0.5	10.0	3.2	0.2	1	21	42.8	<0.1
3346530	Rock	0.005	1.0	1	3.01	11	0.004	0.04	0.027	<0.01	<0.1	1.3	<1	<0.1	1.7	<0.1	<0.1	<1	<1	0.8	<0.1
3346531	Drill Core	0.146	6.9	204	5.19	655	0.319	6.52	0.668	2.24	0.5	12.9	13	0.6	9.7	2.1	0.1	2	25	47.2	0.1
3346532	Drill Core	0.189	9.0	323	5.87	1461	0.274	5.82	0.377	2.94	0.3	14.0	17	0.5	9.6	2.8	0.2	1	23	47.4	<0.1
3346533	Drill Core	0.195	9.3	320	6.11	1086	0.305	5.76	0.203	3.30	0.3	17.3	18	0.6	9.8	3.2	0.2	2	24	50.3	<0.1
3346534	Drill Core	0.192	8.9	330	5.76	1689	0.292	5.74	0.135	3.64	0.3	16.3	18	0.6	9.5	3.2	0.2	3	25	48.0	0.2
3346535	Core DUP	0.190	8.7	334	5.86	1674	0.284	5.85	0.132	3.67	0.4	16.0	17	0.5	9.5	3.0	0.2	4	24	47.7	0.2
3346536	Drill Core	0.177	7.9	315	5.17	135	0.262	5.25	0.177	3.60	0.8	19.1	16	0.6	10.0	3.1	0.1	3	23	48.1	1.0
3346537	Drill Core	0.187	8.7	328	5.15	1487	0.216	5.81	0.333	2.47	0.6	15.0	17	0.6	10.0	2.2	0.1	2	24	44.9	0.4
3346538	Drill Core	0.203	11.0	6	2.17	1179	0.257	8.22	2.918	3.16	0.5	18.1	23	0.7	10.4	3.4	0.2	<1	12	23.8	0.2
3346539	Drill Core	0.225	13.3	5	1.94	852	0.360	10.14	3.525	3.25	0.4	21.8	28	0.8	14.0	5.4	0.3	2	12	26.0	0.1
3346540	Rock Pulp	0.109	36.7	86	1.55	1104	0.469	8.11	1.969	3.63	6.0	73.6	76	3.5	26.7	18.0	1.3	3	13	38.3	0.3
3346541	Drill Core	0.223	11.3	5	1.99	1072	0.355	10.15	3.207	3.70	0.4	23.4	25	0.7	15.0	5.2	0.3	1	12	26.5	<0.1
3346542	Drill Core	0.227	11.8	5	1.98	881	0.398	10.37	3.238	3.21	0.4	29.5	26	0.7	16.1	5.8	0.3	2	12	26.2	<0.1
3346543	Drill Core	0.202	11.1	5	1.77	659	0.291	9.34	3.190	3.24	0.3	22.2	24	0.6	12.0	3.9	0.2	1	11	20.8	0.1
3346544	Drill Core	0.176	10.9	3	1.44	391	0.284	8.08	2.656	3.26	0.8	22.6	22	0.6	10.2	4.0	0.3	<1	11	15.9	0.2

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Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

CERTIFICATE OF ANALYSIS VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346525	Drill Core	47.5	0.9	<0.05	<0.005	<1	0.7	<0.5
3346526	Drill Core	62.1	0.6	0.10	0.012	<1	<0.5	<0.5
3346527	Drill Core	58.0	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346528	Drill Core	101.2	0.7	<0.05	<0.005	<1	1.1	0.6
3346529	Drill Core	75.5	0.6	<0.05	<0.005	<1	1.5	<0.5
3346530	Rock	0.2	<0.1	<0.05	<0.005	2	<0.5	<0.5
3346531	Drill Core	69.1	0.4	<0.05	<0.005	1	<0.5	<0.5
3346532	Drill Core	98.4	0.4	<0.05	<0.005	<1	0.7	0.5
3346533	Drill Core	128.1	0.5	<0.05	<0.005	<1	<0.5	0.7
3346534	Drill Core	126.5	0.5	<0.05	0.008	2	<0.5	0.6
3346535	Core DUP	123.8	0.5	<0.05	<0.005	<1	0.7	0.7
3346536	Drill Core	126.0	0.5	<0.05	0.099	3	<0.5	0.7
3346537	Drill Core	67.0	0.4	<0.05	0.007	1	1.4	<0.5
3346538	Drill Core	81.7	0.6	<0.05	<0.005	1	<0.5	<0.5
3346539	Drill Core	80.5	0.7	<0.05	<0.005	2	<0.5	<0.5
3346540	Rock Pulp	202.1	2.5	0.11	0.005	2	<0.5	1.1
3346541	Drill Core	84.2	0.8	<0.05	<0.005	2	<0.5	<0.5
3346542	Drill Core	70.8	1.0	0.06	<0.005	<1	<0.5	<0.5
3346543	Drill Core	83.2	0.7	0.06	<0.005	2	<0.5	<0.5
3346544	Drill Core	87.2	0.6	<0.05	<0.005	2	<0.5	<0.5

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Bureau Veritas Commodities Canada Ltd.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3346357	Drill Core	4.73	0.017	1.1	211.4	5.4	108	0.3	9.5	31.9	1732	6.77	6	0.4	1.0	586	<0.1	1.0	<0.1	286	5.31
REP 3346357	QC		0.017																		
3346360	Rock Pulp	0.11	0.297	10.0	2276.6	6.5	55	0.6	12.0	15.3	683	5.57	16	0.9	1.3	509	0.3	0.7	0.1	234	2.81
REP 3346360	QC			9.9	2273.4	6.2	57	0.6	12.2	15.1	674	5.52	17	0.9	1.3	486	<0.1	0.8	0.1	232	2.79
3346363	Drill Core	4.41	0.010	1.0	150.8	5.8	107	0.2	7.7	26.5	1562	6.47	7	0.6	1.1	587	<0.1	1.0	<0.1	291	5.44
REP 3346363	QC		0.010																		
3346394	Drill Core	4.00	0.019	3.7	8.9	3.8	34	<0.1	0.3	5.6	560	2.63	7	1.8	4.6	251	<0.1	0.6	0.1	48	2.02
REP 3346394	QC			3.7	8.3	4.0	33	<0.1	0.2	6.2	564	2.64	10	1.8	4.5	257	<0.1	0.6	0.1	47	2.03
3346430	Rock	1.46	<0.005	<0.1	2.4	0.5	4	<0.1	0.5	0.4	134	0.10	1	<0.1	<0.1	96	<0.1	<0.1	<0.1	<1	33.43
REP 3346430	QC			<0.1	2.5	0.6	5	<0.1	0.2	0.5	132	0.10	<1	0.1	<0.1	91	<0.1	<0.1	<0.1	2	34.55
3346433	Drill Core	4.25	0.015	2.6	143.8	8.8	118	0.2	9.1	25.3	1771	7.00	8	1.0	2.2	710	<0.1	2.8	<0.1	273	5.96
REP 3346433	QC		0.017																		
3346439	Drill Core	4.28	0.016	2.1	155.9	8.7	115	0.2	10.2	27.8	1645	6.65	6	0.9	2.1	628	<0.1	2.3	<0.1	261	5.82
REP 3346439	QC		0.017																		
3346465	Drill Core	4.57	0.009	1.5	210.3	7.8	104	0.3	9.2	22.7	1513	6.58	9	0.8	1.8	720	0.1	2.9	<0.1	259	5.46
REP 3346465	QC			1.8	219.7	8.1	113	0.3	8.9	23.4	1538	6.80	7	0.9	2.1	715	<0.1	3.5	<0.1	270	5.18
3346500	Rock Pulp	0.13	0.665	347.2	5171.3	22.4	80	1.5	35.3	17.7	553	4.87	69	4.9	16.5	394	0.5	3.8	2.0	119	2.54
REP 3346500	QC			351.6	5215.7	22.1	72	1.5	35.5	18.0	550	4.86	72	4.8	16.6	405	0.4	4.1	1.8	121	2.55
3346508	Drill Core	3.70	0.013	1.1	205.5	5.3	108	0.2	17.5	26.7	1579	7.33	3	0.7	1.4	468	0.1	2.4	<0.1	325	7.20
REP 3346508	QC		0.012																		
3346514	Drill Core	2.99	0.005	1.2	75.7	2.7	99	0.1	172.6	44.1	1547	6.95	6	1.2	2.1	693	<0.1	1.8	<0.1	243	6.83
REP 3346514	QC		0.006																		
3346532	Drill Core	5.61	0.006	0.9	76.2	6.0	85	0.1	161.6	46.7	1227	6.39	1	0.9	2.3	515	<0.1	1.2	<0.1	221	6.16
REP 3346532	QC			1.0	81.0	6.3	83	0.1	171.4	43.4	1236	6.46	2	0.9	1.9	501	<0.1	1.2	<0.1	222	5.76
Core Reject Duplicates																					
3346347	Drill Core	4.61	0.013	0.8	161.1	4.8	126	0.2	8.8	26.3	1832	6.83	8	0.5	1.1	596	0.1	1.3	<0.1	302	4.62
DUP 3346347	QC		0.012	0.9	168.1	4.8	125	0.2	10.3	27.1	1882	6.91	8	0.5	0.8	617	0.1	1.2	<0.1	307	4.63
3346381	Drill Core	4.74	0.011	1.8	193.0	8.7	99	0.3	7.2	30.8	1663	6.81	10	1.0	2.3	774	0.2	3.9	<0.1	284	5.63

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3346357	Drill Core	0.124	5.6	5	2.09	1358	0.468	7.99	2.357	1.93	0.6	35.0	13	0.6	13.7	4.9	0.3	<1	15	15.9	0.2
REP 3346357	QC																				
3346360	Rock Pulp	0.112	8.2	23	1.18	1390	0.344	7.97	3.039	3.63	0.8	39.4	17	1.9	17.9	2.6	0.2	<1	9	12.2	0.2
REP 3346360	QC	0.116	8.3	23	1.18	1283	0.332	7.99	2.971	3.43	0.8	36.7	17	1.8	16.9	2.7	0.1	2	10	11.8	0.2
3346363	Drill Core	0.149	5.7	4	1.99	1170	0.493	7.62	2.436	1.98	0.3	40.9	13	0.7	13.8	5.8	0.3	<1	13	11.6	<0.1
REP 3346363	QC																				
3346394	Drill Core	0.073	15.7	2	0.52	1044	0.261	8.76	3.435	5.01	2.7	67.2	28	1.1	17.5	10.9	0.8	1	3	6.8	0.7
REP 3346394	QC	0.074	16.1	2	0.53	839	0.259	8.85	3.362	5.10	2.6	66.5	30	1.2	17.7	11.0	0.8	1	3	6.0	0.7
3346430	Rock	0.007	1.2	1	2.18	14	0.005	0.04	0.027	0.02	<0.1	1.6	1	<0.1	2.6	0.1	<0.1	<1	<1	0.7	<0.1
REP 3346430	QC	0.006	1.3	1	2.14	15	0.005	0.04	0.025	0.01	<0.1	1.5	<1	<0.1	2.3	<0.1	<0.1	<1	<1	1.1	<0.1
3346433	Drill Core	0.176	10.4	5	2.16	1350	0.486	9.19	2.321	3.26	0.9	38.9	21	0.8	17.9	6.0	0.3	<1	17	11.0	0.4
REP 3346433	QC																				
3346439	Drill Core	0.173	10.9	14	2.23	1360	0.470	8.69	2.355	2.78	1.1	35.8	21	0.9	17.4	5.9	0.3	<1	18	17.6	0.2
REP 3346439	QC																				
3346465	Drill Core	0.173	9.0	5	2.25	1494	0.478	9.76	2.423	3.47	1.3	34.6	19	0.7	17.0	5.8	0.3	1	17	11.9	<0.1
REP 3346465	QC	0.173	10.0	5	2.29	1492	0.485	8.98	2.429	3.36	1.5	35.9	23	0.7	18.1	5.6	0.3	<1	19	12.7	<0.1
3346500	Rock Pulp	0.114	31.3	68	1.43	523	0.494	7.37	2.057	3.38	3.3	88.8	67	4.0	25.0	19.2	1.4	3	12	29.9	0.8
REP 3346500	QC	0.116	32.6	67	1.42	424	0.493	7.39	2.055	3.37	3.3	84.0	68	3.8	24.4	18.8	1.4	2	12	30.1	0.8
3346508	Drill Core	0.100	7.4	42	3.29	306	0.469	7.28	1.890	1.57	0.6	18.8	16	0.7	14.5	4.6	0.3	1	29	28.9	<0.1
REP 3346508	QC																				
3346514	Drill Core	0.209	9.4	357	6.29	1014	0.348	6.12	0.976	3.50	0.6	23.4	18	0.5	11.7	4.0	0.2	3	27	36.2	<0.1
REP 3346514	QC																				
3346532	Drill Core	0.189	9.0	323	5.87	1461	0.274	5.82	0.377	2.94	0.3	14.0	17	0.5	9.6	2.8	0.2	1	23	47.4	<0.1
REP 3346532	QC	0.186	9.3	322	5.99	1441	0.278	5.94	0.381	2.96	0.4	15.0	18	0.5	9.6	2.6	0.2	2	24	47.1	<0.1
Core Reject Duplicates																					
3346347	Drill Core	0.203	6.6	5	1.97	1277	0.484	7.90	2.337	1.79	0.6	33.6	15	0.7	15.0	5.1	0.3	<1	14	15.8	<0.1
DUP 3346347	QC	0.206	6.3	5	2.00	1290	0.491	7.85	2.405	2.07	0.6	35.2	14	0.7	15.0	5.4	0.3	<1	14	17.0	<0.1
3346381	Drill Core	0.175	11.7	4	2.06	1122	0.493	9.14	2.410	2.65	1.0	36.1	22	0.7	19.3	5.7	0.3	<1	18	12.7	0.4

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Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3346357	Drill Core	21.9	1.2	0.06	<0.005	<1	<0.5	<0.5
REP 3346357	QC							
3346360	Rock Pulp	62.0	1.3	0.08	0.043	2	<0.5	<0.5
REP 3346360	QC	60.8	1.2	0.07	0.034	2	<0.5	<0.5
3346363	Drill Core	18.2	1.2	<0.05	<0.005	<1	<0.5	<0.5
REP 3346363	QC							
3346394	Drill Core	106.6	1.5	<0.05	<0.005	<1	<0.5	<0.5
REP 3346394	QC	109.0	1.5	<0.05	<0.005	<1	<0.5	0.5
3346430	Rock	0.6	<0.1	<0.05	<0.005	<1	<0.5	<0.5
REP 3346430	QC	0.4	<0.1	<0.05	<0.005	1	<0.5	<0.5
3346433	Drill Core	65.2	1.2	<0.05	<0.005	<1	<0.5	<0.5
REP 3346433	QC							
3346439	Drill Core	57.5	1.3	0.06	0.005	<1	<0.5	<0.5
REP 3346439	QC							
3346465	Drill Core	63.6	1.3	<0.05	<0.005	<1	<0.5	<0.5
REP 3346465	QC	66.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
3346500	Rock Pulp	181.1	2.9	0.07	0.253	3	0.5	1.1
REP 3346500	QC	177.3	2.6	0.13	0.253	1	<0.5	1.0
3346508	Drill Core	45.7	0.9	0.05	<0.005	<1	0.8	<0.5
REP 3346508	QC							
3346514	Drill Core	100.3	1.0	<0.05	<0.005	<1	1.2	0.6
REP 3346514	QC							
3346532	Drill Core	98.4	0.4	<0.05	<0.005	<1	0.7	0.5
REP 3346532	QC	102.4	0.4	0.06	<0.005	<1	<0.5	0.5
Core Reject Duplicates								
3346347	Drill Core	19.4	1.2	<0.05	<0.005	<1	<0.5	<0.5
DUP 3346347	QC	17.9	1.3	<0.05	<0.005	<1	0.6	<0.5
3346381	Drill Core	63.9	1.2	0.06	<0.005	<1	<0.5	<0.5

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QUALITY CONTROL REPORT VAN20001251.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP 3346381	QC		0.010	2.1	176.6	8.3	97	0.2	8.1	29.3	1650	6.76	8	1.0	2.4	734	0.2	3.9	<0.1	281	5.54
3346449	Drill Core	3.65	0.030	2.1	221.1	8.6	125	0.4	10.0	27.1	1678	6.79	9	1.1	2.4	667	0.1	2.6	<0.1	272	5.66
DUP 3346449	QC		0.019	2.4	224.4	8.3	130	0.3	10.4	28.1	1687	6.81	8	1.2	2.5	666	0.2	2.4	<0.1	267	5.44
3346483	Drill Core	4.30	0.022	1.4	164.9	5.9	91	0.3	17.1	29.2	1499	6.14	4	0.5	1.2	256	<0.1	2.2	<0.1	251	5.30
DUP 3346483	QC		0.022	1.4	176.4	6.1	97	0.2	18.6	31.9	1559	6.25	4	0.6	1.4	269	<0.1	2.5	<0.1	257	5.53
3346517	Drill Core	3.70	0.006	1.1	99.4	3.3	91	<0.1	177.5	42.8	1395	6.50	5	1.0	2.0	652	<0.1	1.0	<0.1	234	6.17
DUP 3346517	QC		0.005	1.3	101.9	3.0	92	<0.1	188.2	44.5	1396	6.57	5	1.0	2.1	642	<0.1	1.0	<0.1	233	6.52
Reference Materials																					
STD OREAS25A-4A	Standard			2.3	35.0	24.1	48	<0.1	49.3	8.1	508	6.60	11	2.5	13.3	49	<0.1	0.6	0.3	157	0.28
STD OREAS25A-4A	Standard			2.2	32.0	24.3	49	<0.1	45.2	8.1	502	6.66	10	2.7	16.1	50	<0.1	0.6	0.4	157	0.30
STD OREAS25A-4A	Standard			2.2	32.2	24.9	45	<0.1	48.4	7.8	488	6.56	10	2.8	15.7	53	0.1	0.6	0.4	157	0.27
STD OREAS25A-4A	Standard			2.3	31.7	24.0	38	<0.1	42.4	7.5	477	6.29	9	2.8	16.4	50	<0.1	0.7	0.4	160	0.30
STD OREAS25A-4A	Standard			2.5	31.6	26.4	44	<0.1	45.3	7.0	491	6.62	11	2.9	16.5	52	<0.1	0.5	0.5	161	0.30
STD OREAS25A-4A	Standard			2.8	35.8	26.1	41	<0.1	45.5	8.2	490	6.55	11	2.8	16.0	56	<0.1	0.8	0.4	158	0.30
STD OREAS45E	Standard			2.0	772.3	17.7	50	0.3	470.5	60.6	596	24.06	16	2.4	11.8	17	<0.1	1.0	0.2	331	0.06
STD OREAS45H	Standard			1.3	771.4	12.9	47	0.1	451.3	97.4	422	20.90	18	1.7	7.9	31	<0.1	0.6	0.2	277	0.13
STD OREAS45E	Standard			2.6	791.8	19.8	47	0.3	473.7	61.5	564	26.28	17	2.6	13.4	19	<0.1	1.0	0.4	324	0.06
STD OREAS45H	Standard			1.4	804.1	13.2	39	0.1	441.9	91.7	402	20.20	16	1.8	8.3	34	<0.1	0.7	0.2	278	0.14
STD OREAS45E	Standard			2.1	788.7	19.5	48	0.3	466.2	59.7	553	25.49	15	2.6	13.5	19	<0.1	1.0	0.4	332	0.06
STD OREAS45H	Standard			1.4	794.0	14.1	40	0.1	437.4	93.9	396	20.42	15	1.9	8.6	33	0.1	0.7	0.2	274	0.14
STD OXB130	Standard		0.123																		
STD OXB130	Standard		0.120																		
STD OXB130	Standard		0.124																		
STD OXB130	Standard		0.121																		
STD OXB130	Standard		0.126																		
STD OXB130	Standard		0.124																		
STD OXG141	Standard		0.938																		
STD OXG141	Standard		0.926																		
STD OXG141	Standard		0.967																		

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
DUP 3346381	QC	0.179	11.1	5	2.03	1080	0.490	9.45	2.519	2.64	1.0	34.5	21	0.7	18.7	5.4	0.3	<1	17	12.1	0.4
3346449	Drill Core	0.176	11.5	6	2.16	1436	0.500	8.82	2.349	3.33	1.3	36.7	24	0.9	19.4	6.7	0.4	1	18	11.8	0.3
DUP 3346449	QC	0.183	11.3	6	2.21	1418	0.493	9.07	2.350	3.37	1.1	37.7	24	1.1	18.5	6.9	0.4	1	18	13.7	0.3
3346483	Drill Core	0.165	7.7	23	2.05	776	0.228	7.58	1.642	3.61	0.6	12.4	17	0.5	8.8	1.9	0.1	1	19	13.7	0.9
DUP 3346483	QC	0.160	8.6	25	2.11	249	0.256	7.91	1.669	3.84	0.6	14.2	19	0.6	9.3	2.3	0.1	2	20	12.3	0.9
3346517	Drill Core	0.192	9.6	383	6.18	1251	0.346	6.25	0.785	4.43	0.6	26.3	18	0.7	11.1	3.9	0.2	2	25	43.2	<0.1
DUP 3346517	QC	0.204	9.7	379	6.12	1274	0.344	6.13	0.817	4.26	0.5	25.1	18	0.5	11.2	3.9	0.2	2	28	44.1	<0.1
Reference Materials																					
STD OREAS25A-4A	Standard	0.054	19.9	119	0.36	150	0.887	8.98	0.134	0.53	1.7	143.4	44	3.9	10.3	17.3	1.3	<1	12	36.5	<0.1
STD OREAS25A-4A	Standard	0.048	23.1	120	0.34	136	0.915	9.36	0.129	0.50	1.6	137.4	46	3.7	10.6	17.8	1.2	<1	13	34.1	<0.1
STD OREAS25A-4A	Standard	0.051	21.7	118	0.35	157	0.890	8.98	0.134	0.47	1.6	148.7	50	3.9	10.3	18.1	1.3	1	13	37.5	<0.1
STD OREAS25A-4A	Standard	0.046	22.5	110	0.31	142	0.864	9.40	0.117	0.45	1.8	132.3	47	3.7	9.5	17.7	1.3	1	12	35.0	<0.1
STD OREAS25A-4A	Standard	0.050	23.6	110	0.38	148	0.913	9.23	0.138	0.49	1.8	144.8	50	3.9	11.0	19.6	1.3	2	13	38.0	<0.1
STD OREAS25A-4A	Standard	0.051	23.6	114	0.38	159	0.887	9.32	0.130	0.53	1.8	150.4	52	4.2	10.7	19.3	1.5	2	13	39.1	<0.1
STD OREAS45E	Standard	0.036	9.0	1049	0.16	258	0.518	6.88	0.054	0.34	0.9	89.7	20	1.4	7.5	5.8	0.5	<1	90	6.6	<0.1
STD OREAS45H	Standard	0.021	13.4	668	0.27	323	0.874	8.51	0.086	0.22	0.8	117.1	24	2.1	10.5	13.6	0.9	1	63	13.4	<0.1
STD OREAS45E	Standard	0.036	11.8	1035	0.18	269	0.538	6.98	0.064	0.35	0.9	99.1	26	1.4	8.2	6.1	0.5	<1	94	7.4	<0.1
STD OREAS45H	Standard	0.023	13.7	680	0.27	361	0.862	8.29	0.096	0.21	0.9	128.8	27	2.0	9.9	14.1	0.9	<1	58	13.5	<0.1
STD OREAS45E	Standard	0.037	12.0	1079	0.18	269	0.533	7.04	0.060	0.36	0.9	95.0	25	1.3	8.6	6.2	0.5	<1	100	7.5	<0.1
STD OREAS45H	Standard	0.024	14.4	671	0.28	364	0.845	8.40	0.097	0.21	0.9	126.1	28	2.3	10.6	13.5	1.1	1	62	15.1	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
DUP 3346381	QC	63.5	1.3	<0.05	<0.005	<1	<0.5	<0.5
3346449	Drill Core	68.0	1.2	<0.05	<0.005	<1	<0.5	<0.5
DUP 3346449	QC	68.8	1.3	0.06	<0.005	<1	<0.5	<0.5
3346483	Drill Core	93.3	0.5	<0.05	<0.005	2	<0.5	<0.5
DUP 3346483	QC	95.1	0.4	<0.05	<0.005	<1	<0.5	<0.5
3346517	Drill Core	109.2	0.8	<0.05	<0.005	1	1.2	0.6
DUP 3346517	QC	114.4	0.9	<0.05	<0.005	<1	0.7	0.6
Reference Materials								
STD OREAS25A-4A	Standard	53.8	3.8	0.07	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	58.0	3.7	0.07	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	60.7	3.9	0.13	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	56.5	4.0	0.08	<0.005	1	<0.5	<0.5
STD OREAS25A-4A	Standard	61.9	3.8	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	65.0	4.1	0.12	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	18.6	2.7	0.11	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	22.2	3.2	0.12	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.9	2.8	0.11	<0.005	4	<0.5	<0.5
STD OREAS45H	Standard	24.5	3.4	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.1	3.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	24.7	3.6	0.08	<0.005	<1	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXG141	Standard		0.932																		
STD OXG141	Standard		0.936																		
STD OXG141	Standard		0.880																		
STD OXN155	Standard		7.616																		
STD OXN155	Standard		7.858																		
STD OXN155	Standard		7.580																		
STD OXN155	Standard		7.817																		
STD OXN155	Standard		7.744																		
STD OXN155	Standard		7.710																		
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.007																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.3	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.2	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	2	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.008																		
BLK	Blank		0.007																		
Prep Wash																					
ROCK-VAN	Prep Blank		0.006	0.9	7.9	4.4	37	<0.1	0.8	3.8	598	2.07	4	1.2	2.6	194	<0.1	0.2	<0.1	30	1.41
ROCK-VAN	Prep Blank		0.005	0.6	6.0	4.2	39	<0.1	0.9	3.8	614	2.09	4	1.0	2.5	205	<0.1	0.2	<0.1	30	1.55

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Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.039	13.1	4	0.46	682	0.198	6.92	3.540	1.59	0.2	46.0	25	0.8	15.6	5.1	0.4	<1	6	2.0	<0.1
ROCK-VAN	Prep Blank	0.041	11.6	4	0.44	685	0.200	6.80	3.417	1.52	0.2	46.2	23	0.8	15.2	5.3	0.4	<1	6	2.2	<0.1

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 25, 2020

QUALITY CONTROL REPORT VAN20001251.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	27.4	1.7	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	24.7	1.7	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	June 29, 2020
Analysis Start:	July 15, 2020
Report Date:	July 24, 2020
Page:	1 of 6

CERTIFICATE OF ANALYSIS VAN20001252.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_08
P.O. Number	M22165
Number of Samples:	139

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	129	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	3	Split samples by riffle splitter			VAN
PUL85	3	Pulverize to 85% passing 200 mesh			VAN
SLBHP	7	Sort, label and box pulps			VAN
FA430	139	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	139	Environmental disposal charge-Fire assay lead waste			VAN
MA200	139	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EX001	139	Special handling charge			VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486169	Drill Core	2.87	0.009	0.5	113.6	3.7	78	0.1	50.8	37.7	1664	7.19	8	0.9	2.2	675	<0.1	1.8	<0.1	277	7.68
3486170	Rock	1.31	<0.005	<0.1	4.5	0.5	3	<0.1	<0.1	0.3	148	0.11	4	<0.1	<0.1	79	<0.1	<0.1	<0.1	<1	33.91
3486171	Drill Core	4.63	<0.005	0.2	62.0	3.2	84	<0.1	69.0	37.0	1920	7.41	5	1.0	2.1	711	<0.1	1.4	<0.1	282	7.36
3486172	Drill Core	5.11	0.008	0.2	124.5	3.6	83	0.1	52.8	34.8	1783	7.01	6	1.0	1.9	777	<0.1	1.4	<0.1	274	7.28
3486173	Drill Core	3.58	0.007	0.6	120.9	3.6	95	0.1	59.2	37.8	1644	7.50	6	1.3	2.6	706	<0.1	0.9	<0.1	282	5.70
3486174	Drill Core	3.82	0.011	0.3	164.2	3.2	81	0.1	42.0	32.2	1718	6.88	6	1.0	2.1	654	0.1	1.3	<0.1	280	6.98
3486175	Drill Core	5.04	0.007	0.6	165.6	6.2	55	0.2	6.9	25.5	1232	5.73	6	0.9	1.8	974	<0.1	1.3	<0.1	215	4.88
3486176	Drill Core	2.46	<0.005	0.7	124.4	9.5	54	0.2	6.7	24.0	1729	6.80	8	1.0	1.9	1490	<0.1	2.1	<0.1	264	6.78
3486177	Drill Core	2.74	0.006	0.8	152.1	5.0	65	0.2	7.3	23.9	1205	5.88	8	0.8	1.7	946	<0.1	0.9	<0.1	224	4.47
3486178	Drill Core	3.61	0.009	0.7	176.7	4.5	53	0.2	16.0	21.8	930	4.88	5	0.7	2.1	636	<0.1	0.5	<0.1	183	3.73
3486179	Drill Core	2.54	0.006	0.9	115.1	10.2	47	0.1	5.4	17.3	1175	5.08	6	0.9	2.2	1188	<0.1	1.7	<0.1	203	5.16
3486180	Rock Pulp	0.13	0.224	99.8	2813.5	23.0	80	0.5	62.7	15.7	570	4.54	21	6.1	21.5	355	<0.1	2.5	0.9	126	2.71
3486181	Drill Core	4.84	0.007	2.4	157.4	14.3	46	0.4	4.4	17.5	1171	4.98	8	1.6	3.0	1367	0.1	1.6	<0.1	204	5.15
3486182	Drill Core	4.64	0.006	2.1	148.6	10.8	45	0.1	4.3	12.3	1121	4.86	5	1.5	3.0	1322	0.1	1.9	<0.1	199	5.02
3486183	Drill Core	4.29	0.016	3.8	294.3	7.6	73	0.4	43.8	33.0	1309	6.97	5	1.1	2.0	1026	0.2	2.6	<0.1	260	5.86
3486184	Drill Core	4.59	0.014	2.4	332.7	7.7	96	0.3	13.0	37.6	1774	8.63	7	0.7	1.6	852	<0.1	2.9	<0.1	346	6.26
3486185	Drill Core	3.70	0.010	3.0	163.7	8.3	82	0.2	11.4	31.4	1598	8.11	7	0.7	1.4	958	<0.1	2.1	<0.1	312	5.72
3486186	Drill Core	5.30	0.017	3.0	134.5	9.4	83	0.2	11.6	39.4	1693	8.12	10	0.7	1.4	1095	<0.1	4.0	<0.1	328	6.45
3486187	Drill Core	4.79	0.011	3.7	101.3	6.7	75	0.1	10.3	25.3	1530	6.92	5	0.6	1.3	967	<0.1	3.6	<0.1	296	6.04
3486188	Drill Core	3.39	0.026	5.5	150.2	7.3	66	0.2	10.9	35.9	1265	7.06	10	1.7	2.8	691	0.1	2.3	0.1	337	5.87
3486189	Drill Core	3.40	0.011	5.5	128.4	3.9	73	0.1	16.2	25.5	1210	6.25	5	1.2	1.4	298	<0.1	1.3	<0.1	248	5.13
3486190	Rock	1.29	<0.005	<0.1	4.2	1.0	5	<0.1	<0.1	0.8	152	0.14	<1	0.1	0.1	91	<0.1	<0.1	<0.1	3	32.45
3486191	Drill Core	1.21	0.020	5.0	98.2	11.2	76	0.2	13.6	31.6	1312	7.08	8	1.2	1.7	863	<0.1	4.7	<0.1	341	6.85
3486192	Drill Core	1.73	0.019	10.0	246.6	62.0	77	0.3	118.3	44.5	1503	6.66	4	1.0	2.1	522	0.2	2.2	<0.1	240	6.10
3486193	Drill Core	3.08	0.010	2.1	136.8	7.4	68	0.2	11.4	35.9	1431	6.87	8	0.8	1.8	1135	<0.1	6.1	<0.1	292	6.56
3486194	Drill Core	5.02	0.010	1.8	147.3	8.3	77	0.2	11.9	39.7	1273	6.95	5	0.9	2.1	880	<0.1	3.9	<0.1	344	6.05
3486195	Core DUP		0.010	1.6	149.4	8.4	78	0.2	12.8	36.6	1259	6.99	5	0.9	2.0	914	<0.1	3.8	<0.1	347	6.04
3486196	Drill Core	5.21	0.010	1.9	158.7	6.4	87	0.2	13.3	34.3	1456	7.45	6	1.0	2.5	910	0.1	2.4	<0.1	344	7.03
3486197	Drill Core	4.93	0.027	2.0	487.3	5.8	96	0.5	13.5	40.2	1634	8.61	6	0.9	1.9	634	0.2	1.5	<0.1	406	7.21
3486198	Drill Core	5.37	0.016	1.1	339.6	5.5	99	0.4	13.0	35.7	1613	8.16	5	0.4	0.8	637	<0.1	1.3	<0.1	364	7.48

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486169	Drill Core	0.182	9.9	113	4.52	1397	0.400	6.54	1.655	2.62	0.7	38.8	20	0.8	13.7	3.4	0.2	1	41	16.2	<0.1
3486170	Rock	0.006	1.2	1	2.83	16	0.005	0.05	0.029	0.01	0.6	1.6	<1	<0.1	2.0	0.2	<0.1	<1	<1	1.0	<0.1
3486171	Drill Core	0.186	9.3	145	5.02	1428	0.395	6.69	1.515	2.86	0.5	35.5	19	0.6	13.2	3.3	0.2	3	40	22.4	<0.1
3486172	Drill Core	0.186	9.8	111	4.73	772	0.385	6.55	1.684	2.27	0.6	36.8	19	0.6	13.6	3.3	0.2	1	37	21.7	<0.1
3486173	Drill Core	0.212	12.1	123	4.67	977	0.427	7.43	2.035	2.48	1.0	42.0	23	0.6	15.2	4.2	0.2	2	37	30.2	<0.1
3486174	Drill Core	0.195	10.1	95	4.39	928	0.390	6.75	1.818	2.63	0.5	39.0	21	0.6	14.2	3.6	0.2	1	36	18.6	<0.1
3486175	Drill Core	0.223	10.6	3	2.06	1148	0.411	8.04	2.970	3.00	0.9	31.4	24	0.5	16.5	6.5	0.4	1	12	13.5	<0.1
3486176	Drill Core	0.237	11.7	3	2.38	937	0.479	8.72	2.494	2.83	0.6	41.2	27	0.7	19.3	7.1	0.4	1	16	11.8	<0.1
3486177	Drill Core	0.220	10.4	4	2.10	1338	0.433	8.12	3.229	3.16	0.9	26.4	24	0.7	16.5	7.4	0.4	2	12	18.8	<0.1
3486178	Drill Core	0.191	9.4	18	1.85	1603	0.348	8.22	3.097	4.26	2.5	24.6	22	0.6	14.1	6.9	0.4	2	9	23.9	0.1
3486179	Drill Core	0.198	10.1	3	1.62	1132	0.352	8.18	3.008	3.08	1.0	25.1	23	0.7	14.2	8.3	0.4	1	9	12.4	<0.1
3486180	Rock Pulp	0.108	37.3	87	1.54	1057	0.504	7.82	2.150	3.48	4.7	74.4	77	3.4	26.3	17.7	1.4	3	13	36.8	0.3
3486181	Drill Core	0.211	15.7	4	1.64	1109	0.402	9.42	3.509	3.05	1.1	32.8	31	0.8	16.9	8.8	0.5	2	9	8.5	<0.1
3486182	Drill Core	0.208	14.9	4	1.56	1365	0.390	9.24	3.159	3.85	0.6	33.8	30	0.7	16.1	8.7	0.5	2	9	8.4	<0.1
3486183	Drill Core	0.174	12.2	85	2.93	913	0.423	8.44	2.034	2.88	1.5	24.8	24	0.7	14.7	5.6	0.3	1	17	19.7	<0.1
3486184	Drill Core	0.238	11.8	9	2.96	1028	0.568	8.40	2.391	2.14	1.1	27.2	25	0.8	20.3	4.2	0.2	<1	23	9.3	0.2
3486185	Drill Core	0.217	11.4	8	2.56	1485	0.512	8.99	2.697	3.28	1.5	24.6	22	0.8	18.9	4.0	0.2	<1	21	13.0	0.4
3486186	Drill Core	0.237	12.0	8	2.69	857	0.554	9.06	2.731	1.78	1.2	21.7	24	0.6	19.2	5.3	0.3	1	20	12.4	1.3
3486187	Drill Core	0.187	10.7	8	2.46	1050	0.477	8.93	2.653	2.43	1.0	21.4	23	0.6	17.9	4.9	0.3	<1	18	11.0	0.3
3486188	Drill Core	0.205	11.9	7	2.32	1038	0.465	8.89	2.515	2.88	1.1	28.6	24	0.8	18.8	5.0	0.3	<1	18	15.4	0.8
3486189	Drill Core	0.180	12.4	23	2.61	1084	0.629	8.22	3.132	3.88	1.5	33.4	28	1.0	20.7	8.6	0.6	<1	21	20.6	0.3
3486190	Rock	0.007	1.3	2	2.59	14	0.014	0.13	0.046	0.01	<0.1	2.3	1	<0.1	2.3	0.2	<0.1	<1	<1	1.1	<0.1
3486191	Drill Core	0.203	11.5	9	2.60	1146	0.441	8.97	1.960	2.97	1.7	23.0	25	1.1	19.7	5.1	0.3	<1	22	17.9	1.3
3486192	Drill Core	0.204	10.5	251	4.82	1316	0.351	7.18	2.116	3.07	1.0	27.9	21	0.7	13.0	3.5	0.2	<1	21	27.8	0.1
3486193	Drill Core	0.188	10.0	8	2.48	1004	0.539	8.94	2.311	2.42	0.9	34.5	20	0.5	17.0	4.8	0.3	1	19	14.8	0.1
3486194	Drill Core	0.194	10.2	8	2.69	1055	0.463	8.89	2.310	2.89	0.7	36.9	22	0.8	18.9	5.1	0.3	<1	20	20.4	<0.1
3486195	Core DUP	0.196	11.3	8	2.65	1058	0.464	8.86	2.227	2.86	0.9	35.8	22	0.7	18.7	5.3	0.3	<1	20	20.7	<0.1
3486196	Drill Core	0.187	11.5	9	2.79	984	0.439	9.15	2.061	2.61	0.6	42.6	23	0.9	19.5	5.6	0.3	<1	22	16.5	<0.1
3486197	Drill Core	0.090	8.9	10	3.00	813	0.510	8.72	1.618	2.82	0.7	51.0	18	0.9	17.7	5.9	0.4	<1	26	18.6	0.4
3486198	Drill Core	0.076	6.7	8	3.03	843	0.488	9.17	1.731	2.41	0.6	28.0	13	0.8	14.0	4.0	0.2	<1	25	18.8	<0.1

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486169	Drill Core	70.2	1.1	<0.05	<0.005	<1	2.1	<0.5
3486170	Rock	0.3	<0.1	<0.05	<0.005	1	2.9	<0.5
3486171	Drill Core	79.9	1.2	0.09	<0.005	2	3.6	<0.5
3486172	Drill Core	71.3	1.2	0.05	<0.005	<1	3.6	<0.5
3486173	Drill Core	69.9	1.7	0.08	<0.005	1	1.8	<0.5
3486174	Drill Core	74.2	1.1	<0.05	0.006	<1	2.5	<0.5
3486175	Drill Core	40.0	1.1	0.08	<0.005	1	0.8	<0.5
3486176	Drill Core	41.2	1.6	<0.05	<0.005	<1	0.7	<0.5
3486177	Drill Core	39.5	1.0	0.07	<0.005	<1	0.7	<0.5
3486178	Drill Core	69.7	0.7	<0.05	<0.005	1	0.7	<0.5
3486179	Drill Core	37.8	0.8	0.07	<0.005	1	0.8	<0.5
3486180	Rock Pulp	199.4	2.3	0.06	<0.005	<1	<0.5	1.1
3486181	Drill Core	52.2	1.1	0.07	<0.005	<1	<0.5	<0.5
3486182	Drill Core	71.0	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486183	Drill Core	69.4	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486184	Drill Core	52.8	0.9	0.09	<0.005	<1	<0.5	<0.5
3486185	Drill Core	68.7	1.0	0.05	<0.005	<1	<0.5	<0.5
3486186	Drill Core	42.9	0.9	0.08	<0.005	<1	<0.5	<0.5
3486187	Drill Core	52.6	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486188	Drill Core	67.6	1.2	0.06	<0.005	<1	<0.5	<0.5
3486189	Drill Core	124.2	1.1	<0.05	<0.005	<1	<0.5	0.8
3486190	Rock	0.4	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486191	Drill Core	68.9	0.8	<0.05	<0.005	1	<0.5	<0.5
3486192	Drill Core	102.0	0.9	<0.05	<0.005	<1	1.2	0.6
3486193	Drill Core	52.8	1.1	0.05	<0.005	<1	<0.5	<0.5
3486194	Drill Core	59.4	1.5	<0.05	<0.005	<1	<0.5	<0.5
3486195	Core DUP	60.4	1.4	<0.05	<0.005	<1	<0.5	<0.5
3486196	Drill Core	58.7	1.3	<0.05	<0.005	<1	<0.5	<0.5
3486197	Drill Core	74.1	1.6	<0.05	<0.005	<1	0.9	<0.5
3486198	Drill Core	65.8	1.2	<0.05	<0.005	<1	<0.5	<0.5

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486199	Drill Core	5.19	0.019	1.7	303.5	8.5	90	0.4	12.5	34.3	1608	8.20	8	0.8	1.8	1045	0.1	3.2	<0.1	352	7.70
3486200	Rock Pulp	0.11	0.353	10.7	2311.6	6.8	54	0.6	12.5	16.4	665	5.81	16	1.3	2.1	561	0.1	0.9	0.2	233	2.84
3486201	Drill Core	5.41	0.019	1.8	301.9	5.5	104	0.3	18.6	50.4	2020	10.60	9	0.6	1.4	867	<0.1	2.0	<0.1	463	7.83
3486202	Drill Core	4.95	0.008	1.9	63.9	7.7	80	0.1	10.1	28.1	1513	7.40	10	0.6	1.4	891	<0.1	2.8	<0.1	357	6.26
3486203	Drill Core	2.55	0.016	2.1	251.6	5.4	106	0.6	15.7	37.7	2264	10.93	20	0.9	2.0	574	<0.1	2.1	<0.1	449	7.10
3486204	Drill Core	5.09	0.015	1.8	219.1	5.5	132	0.5	19.3	42.9	2597	13.85	16	1.0	2.0	537	<0.1	2.3	<0.1	625	7.64
3486205	Drill Core	3.59	0.007	0.2	373.5	3.3	79	0.4	42.7	27.9	1677	7.23	6	0.9	1.9	387	<0.1	1.2	<0.1	279	6.19
3486206	Drill Core	3.96	0.007	2.0	115.7	3.4	57	0.1	14.1	19.6	1102	6.10	4	0.8	1.3	537	<0.1	1.2	<0.1	228	4.49
3486207	Drill Core	4.96	0.009	1.9	99.1	4.3	56	0.2	11.8	22.2	1059	6.09	5	0.9	1.6	490	<0.1	1.2	<0.1	235	4.79
3486208	Drill Core	5.00	0.024	1.4	125.1	5.6	65	0.3	7.8	25.4	1328	6.32	6	1.0	2.3	563	<0.1	1.3	<0.1	256	5.08
3486209	Drill Core	4.57	0.011	1.8	190.3	4.4	66	0.2	7.0	28.8	1465	6.40	6	0.8	1.8	807	<0.1	1.7	<0.1	252	4.87
3486210	Rock	1.33	<0.005	<0.1	0.9	0.4	2	<0.1	<0.1	0.6	132	0.10	2	0.1	<0.1	71	<0.1	<0.1	<0.1	<1	30.48
3486211	Drill Core	4.84	<0.005	0.2	59.7	8.6	54	<0.1	4.8	18.5	1105	5.09	7	1.2	2.3	1041	<0.1	1.6	<0.1	196	4.38
3486212	Drill Core	4.60	0.007	0.8	125.9	17.4	47	0.2	4.6	16.0	1091	4.77	6	1.3	2.6	1305	0.1	1.3	<0.1	193	4.61
3486213	Drill Core	4.71	<0.005	0.4	96.2	15.3	49	0.1	4.9	16.4	1031	4.92	6	1.3	2.7	1057	<0.1	1.5	<0.1	189	4.10
3486214	Drill Core	4.67	0.008	0.2	53.8	8.2	50	<0.1	4.6	18.3	1105	5.01	7	1.1	2.2	1080	<0.1	1.6	<0.1	195	4.81
3486215	Drill Core	4.98	0.011	1.6	163.2	5.8	71	0.2	7.1	24.9	1513	6.53	6	0.6	1.4	859	<0.1	1.6	<0.1	257	5.25
3486216	Drill Core	2.58	0.017	1.9	343.4	7.6	73	0.4	8.7	52.4	1613	6.53	7	0.7	1.6	924	0.1	2.1	<0.1	280	5.47
3486217	Drill Core	3.68	0.018	1.9	196.8	8.3	77	0.2	8.4	40.3	1549	7.22	8	0.6	1.3	943	<0.1	2.3	<0.1	288	5.23
3486218	Drill Core	3.96	0.011	0.8	238.0	5.6	73	0.3	69.1	43.3	1471	6.93	8	0.9	1.7	699	<0.1	1.9	<0.1	265	5.72
3486219	Drill Core	4.77	0.006	0.9	101.4	5.1	62	0.1	83.1	37.7	1383	6.83	5	0.9	1.8	712	<0.1	1.5	<0.1	259	6.20
3486220	Rock Pulp	0.13	0.216	92.9	2720.6	19.3	73	0.4	57.2	14.8	541	4.33	19	4.7	17.1	309	<0.1	1.9	0.6	123	2.59
3486221	Drill Core	5.28	0.005	1.1	130.8	4.0	56	0.1	108.3	40.3	1277	6.79	4	0.9	1.8	769	<0.1	1.2	<0.1	249	6.61
3486222	Drill Core	4.94	0.020	0.9	117.1	11.0	68	0.2	45.0	37.3	1464	7.13	11	0.9	1.7	646	<0.1	2.0	<0.1	275	5.81
3486223	Drill Core	5.07	0.010	0.9	159.5	3.7	83	0.2	101.5	33.0	1667	7.02	5	0.9	1.9	728	<0.1	1.6	<0.1	263	6.24
3486224	Drill Core	4.83	0.020	1.1	152.5	17.6	93	0.2	91.8	75.0	1843	7.17	9	1.0	1.9	737	<0.1	2.4	<0.1	268	7.21
3486225	Drill Core	5.04	0.013	0.7	136.4	10.1	95	0.2	85.7	49.6	1844	7.23	9	0.9	1.9	674	<0.1	2.1	<0.1	265	6.40
3486226	Drill Core	4.99	0.014	1.1	146.8	5.2	78	0.2	108.3	39.0	1610	6.83	6	0.9	1.8	886	<0.1	2.5	<0.1	250	7.08
3486227	Drill Core	5.17	0.008	1.2	95.7	3.2	69	<0.1	108.0	37.8	1392	6.66	4	0.9	1.8	776	<0.1	1.6	<0.1	255	6.45
3486228	Drill Core	4.51	0.008	1.1	96.2	3.3	76	<0.1	111.9	39.4	1414	6.91	4	0.9	1.8	790	<0.1	1.4	<0.1	258	6.66

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486199	Drill Core	0.136	9.6	9	2.82	706	0.500	9.07	2.016	1.92	0.7	29.2	19	0.9	16.8	4.3	0.2	<1	24	15.5	0.1
3486200	Rock Pulp	0.129	13.0	24	1.25	1520	0.344	8.73	3.451	5.25	0.9	46.2	25	2.4	21.6	2.9	0.2	1	11	12.4	0.3
3486201	Drill Core	0.120	8.2	7	3.74	576	0.773	7.35	1.633	1.45	0.7	32.1	18	0.7	19.5	5.6	0.3	1	35	18.1	0.2
3486202	Drill Core	0.201	8.5	6	2.62	979	0.461	8.55	2.217	2.63	0.8	23.6	19	0.9	15.9	4.6	0.2	1	20	19.7	0.3
3486203	Drill Core	0.155	7.6	6	3.25	859	0.644	8.01	1.739	2.44	1.1	31.0	17	1.4	17.5	4.6	0.3	1	34	16.7	0.5
3486204	Drill Core	0.097	6.4	8	3.95	604	0.863	6.43	1.309	1.51	1.1	31.1	14	1.2	18.5	4.5	0.3	<1	39	12.7	0.4
3486205	Drill Core	0.170	9.3	112	3.85	1742	0.401	6.58	1.977	2.76	0.5	32.0	19	0.6	11.0	3.1	0.2	<1	34	36.8	0.1
3486206	Drill Core	0.163	11.2	22	2.40	779	0.649	8.37	3.300	2.41	1.0	45.0	25	0.9	19.5	8.6	0.5	1	20	14.8	0.1
3486207	Drill Core	0.160	10.5	16	2.29	935	0.573	8.17	2.738	3.10	1.6	30.8	23	0.8	17.3	7.6	0.5	1	18	17.1	0.6
3486208	Drill Core	0.178	9.7	5	2.14	554	0.422	8.44	2.301	3.94	1.9	24.3	19	0.6	13.9	4.7	0.3	1	16	14.4	0.9
3486209	Drill Core	0.176	9.8	4	2.11	1218	0.460	9.22	2.517	3.15	0.9	37.6	20	0.6	15.1	5.2	0.3	<1	15	13.5	0.2
3486210	Rock	0.006	0.9	<1	2.12	10	0.005	0.05	0.035	0.01	<0.1	2.5	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.2	<0.1
3486211	Drill Core	0.184	13.0	2	1.81	1367	0.376	10.73	3.094	3.53	0.7	25.0	26	0.7	13.7	7.0	0.4	1	9	17.2	<0.1
3486212	Drill Core	0.192	13.4	4	1.63	1202	0.385	10.82	3.062	3.61	0.6	31.7	27	0.7	13.8	8.6	0.5	1	8	12.1	<0.1
3486213	Drill Core	0.188	15.3	5	1.72	1275	0.373	10.61	2.959	3.86	0.7	25.9	30	0.6	14.1	7.8	0.4	1	9	14.4	<0.1
3486214	Drill Core	0.182	12.8	3	1.74	1150	0.367	10.36	2.645	3.64	0.8	24.1	26	0.6	13.4	6.8	0.4	1	9	16.0	<0.1
3486215	Drill Core	0.172	9.5	4	2.20	1364	0.461	9.53	2.530	3.11	1.0	25.9	19	0.6	15.1	4.9	0.3	<1	16	19.8	<0.1
3486216	Drill Core	0.165	8.5	4	2.32	1099	0.487	9.18	2.404	2.39	1.2	34.0	18	0.6	16.1	4.7	0.3	1	17	16.8	0.3
3486217	Drill Core	0.163	8.6	6	2.37	1232	0.495	8.97	2.427	2.68	1.1	32.8	17	0.6	15.0	4.7	0.3	<1	18	16.8	0.5
3486218	Drill Core	0.175	8.8	159	4.24	1124	0.382	6.89	1.663	2.70	0.6	27.3	18	0.5	10.5	3.1	0.2	1	28	23.7	0.3
3486219	Drill Core	0.183	8.7	191	4.67	1010	0.375	6.84	1.563	2.51	0.6	28.6	18	0.5	10.4	3.2	0.2	1	27	22.1	<0.1
3486220	Rock Pulp	0.095	34.6	82	1.49	1002	0.486	8.13	1.977	3.64	4.8	71.5	68	2.8	23.2	16.1	1.2	3	12	32.4	0.3
3486221	Drill Core	0.184	8.5	232	4.99	965	0.362	6.73	1.239	2.90	0.5	27.1	17	0.5	10.2	3.3	0.2	1	24	24.4	<0.1
3486222	Drill Core	0.163	8.5	94	3.69	480	0.395	7.36	2.039	2.54	0.9	25.9	18	0.6	11.6	3.6	0.2	<1	25	18.7	1.0
3486223	Drill Core	0.193	9.1	243	4.85	1166	0.380	7.20	1.365	3.00	0.9	26.3	18	0.5	10.5	3.5	0.2	1	24	26.6	<0.1
3486224	Drill Core	0.199	9.9	185	4.21	778	0.402	7.27	1.489	2.47	1.0	22.7	20	0.5	11.2	3.5	0.2	<1	27	24.1	0.7
3486225	Drill Core	0.194	9.6	181	4.80	1089	0.414	7.10	1.477	2.66	0.8	23.6	20	0.5	11.1	3.5	0.2	<1	30	26.0	0.4
3486226	Drill Core	0.191	8.7	245	4.95	1222	0.372	6.73	1.129	2.80	0.8	24.7	18	0.5	10.4	3.3	0.2	1	25	21.0	<0.1
3486227	Drill Core	0.186	8.7	258	5.20	1281	0.374	6.99	1.137	3.21	0.7	25.0	18	0.5	10.5	3.3	0.2	1	25	21.6	<0.1
3486228	Drill Core	0.191	8.8	245	5.17	1260	0.376	6.83	0.967	3.21	0.8	25.3	17	0.5	10.6	3.3	0.2	1	26	22.9	<0.1

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486199	Drill Core	47.2	1.1	<0.05	<0.005	<1	<0.5	<0.5
3486200	Rock Pulp	108.0	1.3	<0.05	0.038	3	<0.5	<0.5
3486201	Drill Core	44.1	1.2	0.08	<0.005	<1	1.2	<0.5
3486202	Drill Core	40.9	1.0	<0.05	<0.005	<1	1.0	<0.5
3486203	Drill Core	72.0	1.1	0.07	<0.005	<1	1.6	<0.5
3486204	Drill Core	42.4	1.3	<0.05	<0.005	<1	2.9	<0.5
3486205	Drill Core	52.1	1.1	<0.05	<0.005	<1	<0.5	<0.5
3486206	Drill Core	47.6	1.5	0.05	<0.005	<1	<0.5	<0.5
3486207	Drill Core	61.8	1.1	<0.05	<0.005	1	<0.5	<0.5
3486208	Drill Core	78.0	0.9	<0.05	<0.005	1	<0.5	<0.5
3486209	Drill Core	68.1	1.3	<0.05	<0.005	<1	<0.5	<0.5
3486210	Rock	0.3	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486211	Drill Core	58.0	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486212	Drill Core	60.5	1.1	<0.05	<0.005	<1	<0.5	<0.5
3486213	Drill Core	64.0	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486214	Drill Core	57.1	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486215	Drill Core	67.7	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486216	Drill Core	51.8	1.2	<0.05	<0.005	1	<0.5	<0.5
3486217	Drill Core	62.4	1.3	<0.05	<0.005	2	<0.5	<0.5
3486218	Drill Core	58.3	1.0	<0.05	<0.005	1	<0.5	<0.5
3486219	Drill Core	50.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486220	Rock Pulp	194.5	2.4	0.06	<0.005	2	<0.5	1.0
3486221	Drill Core	65.8	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486222	Drill Core	48.1	1.0	0.05	<0.005	2	<0.5	<0.5
3486223	Drill Core	69.3	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486224	Drill Core	44.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486225	Drill Core	49.6	0.9	<0.05	<0.005	<1	0.7	<0.5
3486226	Drill Core	48.1	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486227	Drill Core	63.0	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486228	Drill Core	65.7	1.0	<0.05	<0.005	<1	<0.5	<0.5

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	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486229	Drill Core	5.20	0.056	1.1	67.7	3.2	74	<0.1	108.3	37.0	1550	6.64	5	0.9	1.7	845	<0.1	1.7	<0.1	254	6.92
3486230	Rock	1.37	<0.005	<0.1	0.5	0.4	2	<0.1	0.3	0.7	137	0.11	2	<0.1	<0.1	66	<0.1	<0.1	<0.1	<1	30.56
3486231	Drill Core	4.61	0.007	1.1	103.9	3.6	91	0.1	114.3	42.4	1723	7.07	5	0.9	1.8	709	<0.1	1.6	<0.1	256	5.87
3486232	Drill Core	2.27	0.007	2.0	98.4	5.3	47	0.1	23.8	18.5	1022	5.10	4	1.1	2.0	880	<0.1	1.4	<0.1	185	4.60
3486233	Drill Core	4.05	0.005	1.8	53.8	5.7	35	<0.1	11.3	17.1	916	4.29	3	1.0	1.8	514	<0.1	1.1	<0.1	152	5.54
3486234	Drill Core	3.01	0.012	1.7	12.8	4.4	81	<0.1	17.9	34.7	1469	7.38	4	0.6	1.4	552	<0.1	1.6	<0.1	301	5.90
3486235	Core DUP		0.012	1.7	13.8	4.5	85	<0.1	18.4	36.9	1474	7.61	4	0.6	1.5	545	<0.1	1.6	<0.1	310	5.96
3486236	Drill Core	4.24	0.008	3.0	97.7	4.9	57	0.1	7.2	23.3	1121	5.68	7	0.7	1.5	892	<0.1	1.7	<0.1	214	4.42
3486237	Drill Core	3.98	0.007	2.5	12.8	4.5	54	<0.1	6.5	15.5	1024	4.84	5	0.7	1.7	811	<0.1	1.6	<0.1	183	3.93
3486238	Drill Core	2.65	0.016	4.3	5.3	4.3	15	<0.1	0.7	6.6	305	2.03	3	1.3	3.3	322	<0.1	0.4	<0.1	25	1.61
3486239	Drill Core	4.71	0.012	4.0	3.2	5.3	14	<0.1	0.3	2.7	329	1.93	4	1.3	2.8	312	<0.1	0.5	<0.1	20	1.24
3486240	Rock Pulp	0.13	0.222	90.3	2712.5	19.6	80	0.4	58.3	14.6	546	4.43	21	5.1	19.4	311	0.2	1.9	0.7	117	2.60
3486241	Drill Core	4.69	0.013	3.9	3.4	5.3	13	<0.1	0.3	2.7	339	1.92	4	1.4	3.0	283	<0.1	0.4	<0.1	18	1.07
3486242	Drill Core	4.58	0.006	4.9	5.7	6.1	13	<0.1	0.4	7.9	396	2.19	6	1.3	3.0	199	<0.1	0.4	<0.1	23	1.59
3486243	Drill Core	3.21	0.008	2.1	99.6	4.8	69	0.1	7.9	21.5	1707	6.97	7	0.8	1.7	743	<0.1	1.5	<0.1	256	5.19
3486244	Drill Core	2.58	0.008	2.0	197.3	4.8	56	0.2	7.6	24.9	1595	6.50	6	0.8	1.6	617	<0.1	1.7	<0.1	249	5.10
3486245	Drill Core	3.85	0.009	1.8	214.6	4.7	70	0.2	9.1	23.3	1525	6.84	6	0.7	1.6	755	0.1	1.8	<0.1	266	5.06
3486246	Drill Core	3.52	0.011	1.1	141.1	5.2	61	0.2	11.9	31.7	1302	6.25	8	0.7	1.3	789	<0.1	2.3	<0.1	244	5.06
3486247	Drill Core	4.79	0.006	1.4	130.6	5.6	72	0.1	14.3	20.8	1512	6.65	8	0.6	1.3	936	<0.1	1.9	<0.1	268	5.43
3486248	Drill Core	5.36	0.028	1.7	61.9	12.4	72	<0.1	12.8	17.8	1554	6.85	8	0.7	1.4	1041	<0.1	3.1	<0.1	270	5.53
3486249	Drill Core	4.83	0.009	1.4	94.6	6.6	64	0.1	20.4	26.2	1522	6.76	8	0.7	1.3	1103	<0.1	3.4	<0.1	264	5.82
3486250	Rock	1.47	<0.005	<0.1	0.8	0.3	2	<0.1	0.7	0.6	124	0.10	<1	<0.1	<0.1	71	<0.1	<0.1	<0.1	2	32.17
3486251	Drill Core	2.77	0.005	0.7	105.0	3.4	97	0.1	123.8	43.4	1708	7.52	5	1.0	2.1	696	0.1	1.7	<0.1	262	5.99
3486252	Drill Core	5.42	<0.005	0.5	124.7	3.7	78	0.2	119.8	44.0	1661	7.49	5	1.0	2.0	806	<0.1	1.7	<0.1	271	7.13
3486253	Drill Core	5.67	0.007	0.4	132.5	2.8	77	0.2	125.3	44.2	1430	7.38	3	0.9	2.0	632	<0.1	1.0	<0.1	268	6.83
3486254	Drill Core	5.61	0.007	0.4	98.9	2.6	71	0.1	138.2	45.0	1562	7.71	4	1.0	1.9	662	<0.1	1.1	<0.1	271	7.40
3486255	Drill Core	4.82	0.009	0.7	114.9	2.9	62	0.1	131.9	44.2	1423	7.37	4	0.9	1.8	713	<0.1	1.2	<0.1	263	6.99
3486256	Drill Core	3.82	0.011	0.9	148.7	3.9	61	0.1	136.0	46.0	1469	7.36	4	1.0	2.1	762	<0.1	1.3	<0.1	260	6.21
3486257	Drill Core	2.52	0.011	2.4	137.0	9.3	46	0.1	10.6	22.2	1073	5.31	5	1.0	2.0	1188	<0.1	1.1	<0.1	215	4.95
3486258	Drill Core	3.60	0.007	0.9	111.6	3.0	64	0.1	154.5	46.9	1549	7.71	4	0.9	2.0	664	<0.1	1.1	<0.1	245	6.00

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486229	Drill Core	0.184	8.5	243	5.14	1196	0.373	6.76	0.949	2.97	0.9	26.0	17	0.5	10.5	3.3	0.2	1	26	20.6	<0.1
3486230	Rock	0.005	0.9	2	2.86	9	0.004	0.04	0.030	0.01	<0.1	1.1	<1	<0.1	1.6	<0.1	<0.1	<1	<1	1.0	<0.1
3486231	Drill Core	0.191	8.8	248	5.22	1527	0.378	6.90	1.142	3.12	0.9	25.4	17	0.5	10.5	3.4	0.2	1	24	22.3	<0.1
3486232	Drill Core	0.186	12.7	49	2.17	1750	0.378	9.68	2.437	4.38	0.7	39.6	26	0.7	14.8	6.7	0.4	1	11	11.7	<0.1
3486233	Drill Core	0.149	11.4	20	1.77	1633	0.301	8.29	2.302	4.68	3.0	27.6	24	0.6	12.2	6.2	0.3	<1	8	13.4	<0.1
3486234	Drill Core	0.088	6.9	6	2.64	742	0.393	7.80	1.777	2.92	1.7	15.8	13	0.7	10.6	4.3	0.2	1	20	14.2	0.3
3486235	Core DUP	0.093	7.2	8	2.68	756	0.412	7.85	1.833	2.94	1.9	16.5	14	0.8	10.8	4.6	0.3	1	20	14.5	0.3
3486236	Drill Core	0.172	10.4	7	1.96	1142	0.593	10.26	2.809	3.51	1.4	31.6	24	1.0	19.2	8.6	0.5	1	14	10.6	0.5
3486237	Drill Core	0.176	9.2	6	1.63	1231	0.568	7.35	2.453	3.55	1.6	26.3	23	1.1	18.8	9.5	0.6	2	13	10.3	0.2
3486238	Drill Core	0.044	13.0	3	0.44	405	0.173	7.50	2.145	5.97	1.1	39.7	27	1.0	14.0	11.1	0.7	1	2	3.8	0.5
3486239	Drill Core	0.040	11.4	3	0.39	979	0.143	7.11	1.687	6.39	1.1	40.2	24	0.8	12.8	9.9	0.6	<1	2	4.2	0.4
3486240	Rock Pulp	0.100	34.3	76	1.49	1023	0.457	7.37	2.043	3.38	4.5	72.9	71	3.1	23.7	16.8	1.2	4	13	32.4	0.3
3486241	Drill Core	0.043	11.7	2	0.38	468	0.167	7.26	1.668	6.38	1.3	45.0	25	0.8	14.0	11.0	0.7	<1	2	2.3	0.4
3486242	Drill Core	0.053	12.2	2	0.47	416	0.182	7.77	0.936	8.23	0.8	47.9	26	0.8	14.7	10.7	0.7	1	2	1.7	0.6
3486243	Drill Core	0.186	8.0	5	2.10	1368	0.427	7.81	2.477	2.95	1.2	31.1	18	0.8	16.0	5.8	0.3	2	16	11.0	0.3
3486244	Drill Core	0.175	8.2	6	1.81	1449	0.445	7.79	2.662	3.06	1.4	26.5	18	1.5	14.8	6.1	0.4	2	16	8.6	0.2
3486245	Drill Core	0.199	8.1	7	1.90	1518	0.456	7.98	2.678	3.01	1.4	29.0	18	0.8	16.8	6.2	0.3	2	16	11.2	0.1
3486246	Drill Core	0.192	11.0	10	2.19	951	0.709	7.82	2.566	3.01	1.8	26.0	25	1.2	20.7	8.7	0.5	1	19	12.6	0.7
3486247	Drill Core	0.223	9.3	14	2.41	1004	0.790	8.15	2.740	2.75	1.7	36.6	21	0.9	20.7	9.6	0.6	1	19	17.4	<0.1
3486248	Drill Core	0.216	9.8	11	2.36	805	0.791	8.22	2.856	2.30	1.5	39.3	25	1.1	22.1	10.7	0.7	2	20	14.9	<0.1
3486249	Drill Core	0.191	9.1	27	2.40	824	0.777	8.11	2.502	2.43	1.5	41.1	23	1.0	19.9	9.6	0.6	1	19	14.4	0.1
3486250	Rock	0.007	1.0	2	2.31	11	0.006	0.07	0.034	0.02	<0.1	1.2	<1	<0.1	2.0	0.1	<0.1	<1	<1	0.6	<0.1
3486251	Drill Core	0.218	9.4	252	5.37	1142	0.394	6.75	1.353	3.01	0.5	31.8	19	0.4	12.7	4.1	0.2	1	27	33.0	<0.1
3486252	Drill Core	0.197	9.1	253	5.50	952	0.369	6.66	1.393	2.57	0.3	32.2	18	0.6	11.7	3.6	0.2	1	27	27.4	<0.1
3486253	Drill Core	0.208	9.3	269	5.61	1141	0.392	6.67	1.375	2.78	0.3	31.0	19	0.5	12.4	3.8	0.2	1	28	33.0	<0.1
3486254	Drill Core	0.201	9.1	282	5.81	1007	0.386	6.57	1.405	2.73	0.5	32.3	19	0.4	12.1	3.6	0.2	1	30	34.6	<0.1
3486255	Drill Core	0.202	9.1	255	5.81	1036	0.356	6.62	1.442	3.01	0.4	29.7	19	0.4	12.1	3.4	0.2	1	29	29.6	<0.1
3486256	Drill Core	0.227	10.0	251	5.51	1234	0.367	6.95	1.581	3.11	0.5	31.9	20	0.5	12.4	4.0	0.2	1	26	33.9	<0.1
3486257	Drill Core	0.216	10.8	13	1.91	1349	0.385	8.43	3.500	2.54	0.6	46.9	25	0.7	13.1	8.3	0.4	2	8	15.3	<0.1
3486258	Drill Core	0.216	8.3	321	5.73	1204	0.329	6.28	1.148	2.99	0.5	27.5	18	0.4	10.8	2.5	0.1	<1	25	35.6	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486229	Drill Core	59.1	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486230	Rock	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486231	Drill Core	66.1	0.9	<0.05	<0.005	<1	0.8	<0.5
3486232	Drill Core	69.5	1.3	<0.05	<0.005	<1	<0.5	<0.5
3486233	Drill Core	76.3	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486234	Drill Core	64.3	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486235	Core DUP	66.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486236	Drill Core	56.7	1.2	<0.05	<0.005	1	<0.5	<0.5
3486237	Drill Core	61.7	0.9	0.05	<0.005	<1	<0.5	<0.5
3486238	Drill Core	103.7	0.9	0.06	<0.005	<1	<0.5	<0.5
3486239	Drill Core	118.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486240	Rock Pulp	187.6	2.4	0.09	<0.005	<1	0.7	1.0
3486241	Drill Core	122.3	1.1	<0.05	<0.005	<1	<0.5	0.6
3486242	Drill Core	151.4	1.1	<0.05	<0.005	<1	<0.5	0.6
3486243	Drill Core	70.8	1.1	<0.05	0.005	<1	0.6	<0.5
3486244	Drill Core	62.3	0.9	<0.05	<0.005	<1	0.6	<0.5
3486245	Drill Core	62.8	1.1	<0.05	<0.005	<1	0.6	<0.5
3486246	Drill Core	58.1	1.0	<0.05	<0.005	<1	0.8	<0.5
3486247	Drill Core	38.7	1.3	<0.05	<0.005	<1	0.7	<0.5
3486248	Drill Core	30.2	1.3	<0.05	0.008	<1	0.7	<0.5
3486249	Drill Core	35.8	1.4	<0.05	<0.005	<1	1.1	<0.5
3486250	Rock	0.2	<0.1	<0.05	<0.005	<1	1.8	<0.5
3486251	Drill Core	94.9	1.3	0.05	<0.005	<1	2.2	0.6
3486252	Drill Core	78.2	1.0	<0.05	<0.005	<1	1.9	<0.5
3486253	Drill Core	120.0	1.0	<0.05	<0.005	<1	2.1	0.6
3486254	Drill Core	94.6	1.0	0.06	<0.005	<1	3.3	<0.5
3486255	Drill Core	100.2	1.0	<0.05	<0.005	<1	2.0	<0.5
3486256	Drill Core	113.3	1.1	<0.05	<0.005	<1	2.1	0.6
3486257	Drill Core	38.5	1.6	<0.05	<0.005	<1	<0.5	<0.5
3486258	Drill Core	106.8	0.9	<0.05	<0.005	<1	1.4	0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486259	Drill Core	5.04	0.009	0.6	126.1	3.0	69	0.1	133.9	43.5	1470	7.13	3	0.9	1.9	716	<0.1	1.2	<0.1	258	6.43
3486260	Rock Pulp	0.13	0.218	91.1	2756.0	19.7	79	0.3	62.8	15.3	552	4.42	19	4.2	15.8	304	0.3	2.0	0.6	119	2.60
3486261	Drill Core	5.04	0.006	0.6	95.8	2.6	69	0.1	127.2	44.4	1380	7.03	3	0.9	1.9	647	<0.1	1.1	<0.1	257	6.52
3486262	Drill Core	5.40	0.007	0.8	138.1	2.4	63	0.2	126.5	42.3	1368	6.96	3	0.9	1.8	616	<0.1	0.8	<0.1	256	6.91
3486263	Drill Core	5.07	0.006	0.9	112.3	4.0	73	0.2	126.5	42.2	1455	7.11	3	0.9	2.0	701	<0.1	1.0	<0.1	262	6.76
3486264	Drill Core	5.25	0.013	1.1	224.6	3.2	77	0.2	136.7	46.5	1734	7.67	6	0.9	1.9	898	<0.1	1.7	<0.1	273	7.55
3486265	Drill Core	4.96	0.006	0.8	200.7	3.3	84	0.2	149.1	44.2	1928	8.21	6	1.0	1.9	945	<0.1	1.9	<0.1	280	7.88
3486266	Drill Core	4.95	0.006	0.9	79.7	2.8	74	<0.1	142.3	49.5	1635	7.40	4	0.8	1.8	671	<0.1	1.1	<0.1	267	7.50
3486267	Drill Core	2.28	0.009	0.8	58.9	2.9	97	<0.1	137.2	42.4	1867	7.29	5	1.0	2.0	652	<0.1	1.3	<0.1	261	7.13
3486268	Drill Core	1.76	0.036	7.3	65.4	4.5	20	<0.1	2.7	8.2	426	2.07	7	1.3	2.9	224	<0.1	0.4	<0.1	29	1.87
3486269	Drill Core	2.30	0.229	3.7	75.4	8.5	57	0.2	7.4	27.1	1508	6.84	13	0.8	1.6	557	<0.1	1.5	<0.1	241	4.13
3486270	Rock	1.28	<0.005	<0.1	3.3	1.5	2	<0.1	1.6	0.4	151	0.11	2	0.1	<0.1	77	<0.1	<0.1	<0.1	1	32.64
3486271	Drill Core	1.74	0.132	7.6	21.4	4.1	15	0.1	1.7	13.6	479	2.89	18	1.2	2.4	236	<0.1	1.0	<0.1	72	1.82
3486272	Drill Core	2.98	0.013	2.5	181.7	5.4	85	0.2	8.6	36.0	1530	6.76	6	0.8	1.9	728	<0.1	1.8	<0.1	272	5.19
3486273	Drill Core	3.75	0.012	2.3	105.1	4.5	67	<0.1	8.0	23.1	1424	6.33	5	0.8	1.6	653	<0.1	1.6	<0.1	246	4.52
3486274	Drill Core	1.26	0.009	4.7	4.5	1.6	13	<0.1	0.7	14.6	345	2.13	3	1.4	3.2	149	<0.1	0.3	<0.1	24	1.29
3486275	Core DUP		0.010	4.6	5.4	1.6	14	<0.1	0.8	15.7	347	2.17	3	1.4	3.1	152	<0.1	0.4	<0.1	24	1.33
3486276	Drill Core	5.29	0.007	<0.1	34.4	6.9	71	<0.1	48.4	25.1	1348	5.52	4	0.5	1.3	754	<0.1	0.9	<0.1	207	7.64
3486277	Drill Core	4.09	0.033	1.3	49.2	4.7	80	<0.1	79.4	36.8	1581	6.70	5	0.6	1.4	822	<0.1	1.1	<0.1	250	6.65
3486278	Drill Core	4.87	0.010	6.1	82.6	7.3	92	0.1	29.3	25.1	1785	6.40	8	1.1	2.1	1311	<0.1	3.5	<0.1	269	6.95
3486279	Drill Core	4.71	0.052	1.0	101.7	2.6	139	0.1	184.1	49.2	2069	7.72	5	0.9	1.8	527	<0.1	1.2	<0.1	250	6.23
3486280	Rock Pulp	0.11	0.286	9.6	2194.5	6.0	52	0.6	12.8	15.5	640	5.51	14	1.0	1.4	486	0.2	0.7	0.1	224	2.72
3486281	Drill Core	5.45	0.014	0.8	105.6	2.8	141	0.1	178.0	54.8	2072	7.38	5	0.9	1.9	531	<0.1	1.2	<0.1	252	6.99
3486282	Drill Core	5.33	0.007	0.9	89.6	3.2	143	0.1	185.7	53.0	2033	7.48	4	0.9	1.8	536	<0.1	1.4	<0.1	247	5.56
3486283	Drill Core	4.64	0.007	0.4	76.9	3.6	123	0.1	124.8	41.1	1875	6.58	5	1.0	2.0	473	<0.1	1.9	<0.1	213	5.27
3486284	Drill Core	4.80	<0.005	0.1	21.1	5.5	82	<0.1	68.5	19.1	1803	5.96	4	1.3	2.2	610	<0.1	2.0	<0.1	188	5.84
3486285	Drill Core	2.21	<0.005	0.1	8.7	4.8	83	<0.1	64.4	20.1	1719	5.60	6	1.2	2.4	638	<0.1	2.1	<0.1	183	5.90
3486286	Drill Core	4.86	0.021	3.2	29.5	3.0	97	0.2	91.2	44.8	1981	7.30	5	1.1	1.9	359	<0.1	1.3	<0.1	211	6.18
3486287	Drill Core	3.27	0.007	2.8	54.3	4.1	82	<0.1	10.5	16.4	1857	6.15	5	0.8	1.5	725	<0.1	1.5	<0.1	275	6.02
3486288	Drill Core	4.38	0.008	1.2	95.3	2.8	112	0.1	125.7	45.0	2004	6.94	5	0.9	1.8	488	<0.1	1.3	<0.1	253	6.66

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486259	Drill Core	0.205	9.0	273	5.44	1344	0.373	6.61	1.274	3.12	0.5	28.1	18	0.4	11.3	3.3	0.2	1	27	30.2	<0.1
3486260	Rock Pulp	0.103	28.7	82	1.47	995	0.488	7.07	2.021	3.16	3.9	67.2	63	2.9	22.4	16.7	1.2	3	13	33.7	0.3
3486261	Drill Core	0.203	8.8	263	5.52	1200	0.380	6.45	1.359	3.12	0.5	27.1	18	0.4	11.7	3.4	0.2	<1	28	31.9	<0.1
3486262	Drill Core	0.184	8.6	282	5.39	1009	0.378	6.38	1.407	2.85	0.4	25.3	17	0.4	12.1	3.3	0.2	<1	29	31.0	<0.1
3486263	Drill Core	0.217	9.2	262	5.36	1215	0.388	6.51	1.328	2.73	0.5	26.9	19	0.5	11.4	3.4	0.2	1	29	31.7	<0.1
3486264	Drill Core	0.226	9.2	269	5.39	1075	0.384	6.71	1.210	1.97	0.9	27.6	19	0.5	12.0	3.7	0.2	<1	27	27.1	<0.1
3486265	Drill Core	0.211	9.3	313	5.46	786	0.407	6.72	0.959	1.56	1.3	22.9	19	0.5	12.4	3.5	0.2	<1	31	28.1	<0.1
3486266	Drill Core	0.200	8.3	290	5.81	1000	0.394	6.52	1.319	1.80	0.6	27.4	18	0.6	12.4	3.3	0.2	1	29	27.8	<0.1
3486267	Drill Core	0.196	9.2	273	5.54	1164	0.392	6.45	1.284	2.28	0.6	25.2	19	0.6	13.0	3.6	0.2	<1	29	29.6	<0.1
3486268	Drill Core	0.049	11.0	5	0.62	1229	0.172	7.54	1.149	7.15	0.9	62.1	23	0.8	15.3	10.4	0.7	<1	2	1.1	0.4
3486269	Drill Core	0.171	7.7	6	1.78	240	0.449	7.97	2.372	3.45	1.5	25.0	18	0.7	15.0	5.9	0.4	1	16	13.7	1.3
3486270	Rock	0.007	1.3	1	2.26	12	0.005	0.04	0.025	0.02	<0.1	1.2	<1	<0.1	2.0	0.2	<0.1	<1	<1	0.9	<0.1
3486271	Drill Core	0.066	9.7	3	0.43	228	0.236	7.93	1.155	6.36	1.9	41.9	22	0.8	14.5	10.0	0.6	<1	5	1.9	1.1
3486272	Drill Core	0.170	7.7	6	2.16	1397	0.493	8.10	2.722	3.13	0.8	43.7	17	0.9	17.0	6.4	0.4	2	17	14.3	0.1
3486273	Drill Core	0.141	6.4	6	1.80	1211	0.439	7.88	3.313	2.82	0.9	38.8	15	0.9	13.7	6.5	0.4	1	14	11.6	0.2
3486274	Drill Core	0.046	12.1	3	0.53	365	0.196	7.90	3.673	6.02	0.9	51.7	26	0.8	15.2	11.6	0.8	1	2	0.7	0.7
3486275	Core DUP	0.045	12.8	3	0.53	394	0.189	8.06	3.712	5.95	0.8	53.4	27	0.9	15.1	11.7	0.8	1	2	0.7	0.7
3486276	Drill Core	0.177	9.3	92	3.02	1047	0.440	7.03	2.425	2.42	5.3	37.4	18	0.7	13.2	8.8	0.4	1	24	15.2	<0.1
3486277	Drill Core	0.200	9.8	153	4.35	1009	0.454	7.13	1.584	3.00	1.0	41.4	20	0.6	13.6	7.6	0.4	2	28	24.2	<0.1
3486278	Drill Core	0.179	9.8	41	2.75	936	0.428	8.65	2.507	2.46	1.1	34.4	20	0.8	16.6	5.5	0.3	1	16	13.8	<0.1
3486279	Drill Core	0.199	8.1	373	5.83	945	0.345	6.57	1.290	3.34	0.7	22.6	16	0.5	11.3	2.3	0.1	1	27	34.2	0.1
3486280	Rock Pulp	0.102	8.4	22	1.18	1360	0.295	8.06	3.272	4.44	0.8	39.2	18	1.8	16.7	2.6	0.2	<1	9	12.0	0.2
3486281	Drill Core	0.206	8.5	377	6.28	666	0.354	6.62	1.326	2.72	0.6	23.9	17	0.4	11.1	2.2	0.1	1	30	36.4	<0.1
3486282	Drill Core	0.213	8.7	381	6.47	887	0.344	6.66	0.837	2.96	0.6	30.4	17	0.5	11.1	2.3	0.1	1	29	35.3	<0.1
3486283	Drill Core	0.193	9.7	257	4.94	1088	0.335	7.15	1.471	3.53	0.6	33.8	19	0.5	11.3	3.3	0.2	2	22	37.8	<0.1
3486284	Drill Core	0.193	9.0	146	3.12	1295	0.290	7.57	1.869	3.56	1.0	16.9	17	0.6	10.4	3.3	0.2	1	14	15.1	<0.1
3486285	Drill Core	0.214	9.7	118	2.86	1214	0.290	7.80	1.854	3.91	1.2	16.7	19	0.5	10.9	3.6	0.2	<1	14	15.2	<0.1
3486286	Drill Core	0.171	8.5	203	3.80	863	0.290	7.01	1.181	3.86	1.2	17.9	16	0.5	10.6	2.9	0.2	<1	17	24.9	0.6
3486287	Drill Core	0.169	7.9	6	2.04	1383	0.460	8.03	1.904	3.38	1.9	32.6	17	0.7	15.6	5.9	0.4	1	16	15.5	<0.1
3486288	Drill Core	0.177	9.0	275	5.32	1142	0.381	6.67	1.579	2.60	0.9	26.4	17	0.5	11.9	3.3	0.2	<1	27	31.2	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486259	Drill Core	105.4	0.9	<0.05	<0.005	<1	2.5	0.5
3486260	Rock Pulp	183.1	2.1	0.07	<0.005	2	<0.5	1.0
3486261	Drill Core	98.0	0.8	<0.05	<0.005	<1	3.1	<0.5
3486262	Drill Core	90.0	1.0	<0.05	<0.005	<1	2.8	<0.5
3486263	Drill Core	79.4	0.9	<0.05	0.006	<1	2.2	<0.5
3486264	Drill Core	45.6	1.1	<0.05	<0.005	<1	2.3	<0.5
3486265	Drill Core	42.8	0.9	<0.05	<0.005	<1	1.5	<0.5
3486266	Drill Core	59.4	0.9	<0.05	<0.005	<1	2.0	<0.5
3486267	Drill Core	69.9	1.0	<0.05	<0.005	<1	2.1	<0.5
3486268	Drill Core	119.5	1.8	<0.05	<0.005	<1	<0.5	0.5
3486269	Drill Core	71.3	1.1	0.06	<0.005	2	<0.5	<0.5
3486270	Rock	0.2	<0.1	<0.05	<0.005	<1	5.9	<0.5
3486271	Drill Core	109.7	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486272	Drill Core	55.0	1.4	0.07	<0.005	<1	0.7	<0.5
3486273	Drill Core	40.6	1.4	<0.05	<0.005	<1	0.6	<0.5
3486274	Drill Core	85.0	1.4	<0.05	<0.005	<1	<0.5	<0.5
3486275	Core DUP	87.8	1.4	<0.05	<0.005	2	<0.5	<0.5
3486276	Drill Core	42.9	1.3	<0.05	<0.005	<1	1.9	<0.5
3486277	Drill Core	82.5	1.3	<0.05	<0.005	<1	1.7	<0.5
3486278	Drill Core	47.1	1.2	0.07	<0.005	<1	0.8	<0.5
3486279	Drill Core	125.6	0.9	<0.05	<0.005	<1	2.3	0.6
3486280	Rock Pulp	88.3	1.3	0.09	0.034	3	<0.5	<0.5
3486281	Drill Core	110.2	0.7	<0.05	<0.005	<1	2.7	<0.5
3486282	Drill Core	99.7	0.9	<0.05	<0.005	<1	2.6	<0.5
3486283	Drill Core	107.6	0.9	<0.05	<0.005	<1	1.6	<0.5
3486284	Drill Core	43.8	0.6	<0.05	<0.005	<1	1.1	<0.5
3486285	Drill Core	48.6	0.7	<0.05	<0.005	<1	1.0	<0.5
3486286	Drill Core	94.4	0.6	<0.05	<0.005	<1	0.9	<0.5
3486287	Drill Core	49.1	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486288	Drill Core	74.1	1.0	<0.05	<0.005	<1	1.8	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486289	Drill Core	2.88	0.010	1.0	123.6	3.8	128	0.2	142.5	46.6	1972	6.96	5	0.9	2.0	520	<0.1	1.5	<0.1	253	6.36
3486290	Rock	1.37	<0.005	<0.1	1.2	1.0	4	<0.1	0.8	0.5	147	0.12	1	0.1	<0.1	83	<0.1	<0.1	<0.1	<1	31.28
3486291	Drill Core	4.40	0.007	1.1	83.7	5.1	112	0.1	103.8	35.5	1787	6.46	6	1.2	2.3	624	<0.1	1.2	<0.1	234	5.80
3486292	Drill Core	2.85	0.025	3.0	235.3	5.9	88	0.3	9.0	26.3	1752	6.76	8	0.8	1.6	744	0.1	1.4	<0.1	266	5.67
3486293	Drill Core	2.21	0.050	2.4	165.3	5.7	76	0.2	8.3	27.3	1671	6.69	5	0.6	1.4	717	<0.1	1.3	<0.1	262	5.60
3486294	Drill Core	3.73	0.013	6.6	17.2	5.3	51	<0.1	4.5	26.0	1066	3.92	7	1.1	2.0	494	<0.1	1.3	<0.1	144	3.20
3486295	Drill Core	3.50	0.015	3.4	69.2	10.9	59	<0.1	4.5	12.8	999	3.99	4	1.2	2.1	519	0.2	1.0	<0.1	141	2.68
3486296	Drill Core	4.87	0.009	2.6	150.4	6.2	77	0.2	8.2	25.8	1497	6.46	4	0.7	1.4	616	<0.1	1.0	<0.1	252	5.52
3486297	Drill Core	4.87	0.010	2.0	230.5	7.9	89	0.3	8.3	27.5	1549	6.43	6	0.7	1.5	761	<0.1	1.8	<0.1	257	5.37
3486298	Drill Core	4.66	0.010	2.0	161.6	6.4	97	0.2	8.3	26.6	1576	6.56	7	0.7	1.4	815	<0.1	1.9	<0.1	257	4.48
3486299	Drill Core	4.51	0.023	2.0	191.6	6.5	91	0.3	7.8	26.5	1535	6.14	6	0.9	2.0	848	<0.1	2.6	<0.1	243	5.79
3486300	Rock Pulp	0.13	0.221	96.2	2626.4	20.0	78	0.4	63.0	16.2	545	4.31	18	4.2	16.5	305	0.3	2.0	0.6	120	2.52
3486301	Drill Core	3.32	0.017	2.4	166.8	6.1	100	0.2	7.7	24.9	1572	6.43	5	0.8	1.6	667	<0.1	1.5	<0.1	265	4.35
3486302	Drill Core	3.51	0.013	1.6	113.0	9.6	74	0.1	5.9	20.1	1319	4.67	6	1.0	2.0	1100	0.1	1.7	<0.1	200	4.68
3486303	Drill Core	5.24	0.010	1.9	145.8	9.0	80	0.2	5.4	20.3	1315	4.60	6	1.1	2.0	1018	<0.1	1.6	<0.1	187	4.37
3486304	Drill Core	4.30	0.022	1.8	140.7	9.2	83	0.2	4.9	18.5	1360	4.80	6	1.1	2.2	1032	0.1	1.6	<0.1	191	4.55
3486305	Drill Core	4.78	0.006	2.4	127.7	12.0	76	0.2	5.4	18.0	1398	4.64	6	1.0	2.1	1210	0.1	1.6	<0.1	201	5.44
3486306	Drill Core	3.01	<0.005	1.9	96.1	9.8	78	0.1	5.2	17.4	1404	4.50	6	0.9	2.1	1024	<0.1	1.7	<0.1	195	5.60
3486307	Drill Core	4.52	0.007	1.3	130.1	9.8	85	0.2	5.0	17.1	1405	4.70	6	0.9	1.9	1055	0.1	2.2	<0.1	194	4.57

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486289	Drill Core	0.204	9.0	306	5.57	1275	0.384	6.65	1.447	2.69	0.6	29.5	17	0.5	11.7	3.3	0.2	<1	26	32.2	<0.1
3486290	Rock	0.007	1.2	2	2.84	12	0.005	0.07	0.030	0.02	<0.1	1.2	<1	<0.1	2.2	0.2	<0.1	<1	<1	1.6	<0.1
3486291	Drill Core	0.197	10.1	228	4.55	1332	0.350	7.45	1.701	3.66	0.6	29.6	19	0.4	11.9	3.5	0.2	1	22	30.4	<0.1
3486292	Drill Core	0.173	10.0	7	2.14	1483	0.495	8.46	2.277	3.68	0.8	32.4	20	0.7	16.6	6.1	0.4	1	16	16.2	0.2
3486293	Drill Core	0.169	7.0	7	2.07	1355	0.479	8.15	2.545	3.27	0.8	32.4	15	0.7	14.7	6.0	0.4	<1	15	12.3	<0.1
3486294	Drill Core	0.115	8.3	8	1.38	983	0.335	7.71	1.423	6.41	1.2	30.6	16	0.8	12.2	7.3	0.5	<1	9	8.3	0.5
3486295	Drill Core	0.108	8.0	6	1.21	1940	0.316	8.02	3.123	4.87	0.8	33.6	17	0.8	12.2	7.4	0.5	1	9	12.2	0.1
3486296	Drill Core	0.173	7.1	6	1.93	1238	0.441	8.13	2.656	3.02	0.8	31.7	15	0.6	13.8	5.3	0.3	<1	14	14.1	0.2
3486297	Drill Core	0.182	7.4	6	1.97	1472	0.471	8.10	2.671	3.07	0.8	36.3	17	0.6	14.7	5.4	0.3	<1	14	12.6	<0.1
3486298	Drill Core	0.169	7.2	6	2.04	1480	0.463	8.20	2.862	3.21	0.9	31.0	15	0.6	14.4	5.5	0.3	1	15	17.3	0.2
3486299	Drill Core	0.172	10.3	6	1.99	1612	0.411	8.48	2.821	3.48	0.8	34.0	19	0.6	16.1	5.9	0.4	1	15	14.1	<0.1
3486300	Rock Pulp	0.094	30.6	89	1.44	947	0.469	7.19	2.015	3.38	4.8	70.3	59	3.0	22.5	17.3	1.3	3	12	31.6	0.3
3486301	Drill Core	0.173	7.2	6	2.02	942	0.439	8.06	2.861	3.25	0.8	41.8	15	0.7	14.0	6.5	0.3	1	14	17.4	<0.1
3486302	Drill Core	0.184	9.4	4	1.59	920	0.392	8.46	3.670	2.53	0.7	26.8	20	0.6	11.8	7.6	0.5	1	8	12.5	<0.1
3486303	Drill Core	0.176	9.3	4	1.45	1190	0.354	8.25	3.315	2.96	0.5	29.5	19	0.6	12.0	7.9	0.5	1	7	13.1	<0.1
3486304	Drill Core	0.181	11.2	4	1.57	1194	0.374	8.73	3.366	2.90	0.6	30.2	22	0.6	13.2	7.8	0.4	1	9	11.2	<0.1
3486305	Drill Core	0.186	9.6	4	1.47	766	0.390	8.41	3.655	1.92	0.4	27.6	20	1.1	12.7	7.9	0.5	<1	8	8.8	<0.1
3486306	Drill Core	0.173	9.8	3	1.57	797	0.358	8.52	3.461	2.46	0.5	24.1	21	0.6	12.1	7.3	0.4	1	8	10.4	<0.1
3486307	Drill Core	0.170	9.3	4	1.51	1052	0.361	8.38	3.426	2.70	0.4	28.5	19	0.7	11.7	7.7	0.4	1	7	10.0	<0.1

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Bureau Veritas Commodities Canada Ltd.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486289	Drill Core	77.7	1.0	<0.05	<0.005	<1	1.8	<0.5
3486290	Rock	0.3	<0.1	<0.05	<0.005	<1	8.1	<0.5
3486291	Drill Core	75.8	1.0	<0.05	<0.005	<1	1.4	<0.5
3486292	Drill Core	64.9	1.4	<0.05	<0.005	<1	0.5	<0.5
3486293	Drill Core	46.0	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486294	Drill Core	80.3	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486295	Drill Core	69.8	1.1	0.06	<0.005	<1	<0.5	<0.5
3486296	Drill Core	45.7	1.1	<0.05	<0.005	<1	0.6	<0.5
3486297	Drill Core	37.6	1.3	<0.05	<0.005	<1	0.5	<0.5
3486298	Drill Core	47.2	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486299	Drill Core	55.7	1.3	<0.05	<0.005	<1	0.9	<0.5
3486300	Rock Pulp	190.3	2.2	0.07	<0.005	2	0.7	1.0
3486301	Drill Core	46.2	1.4	0.05	<0.005	<1	0.5	<0.5
3486302	Drill Core	25.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486303	Drill Core	34.4	1.0	<0.05	<0.005	<1	<0.5	<0.5
3486304	Drill Core	37.7	1.1	<0.05	<0.005	<1	0.7	<0.5
3486305	Drill Core	15.6	1.0	<0.05	<0.005	<1	0.6	<0.5
3486306	Drill Core	25.3	1.1	<0.05	<0.005	<1	0.6	<0.5
3486307	Drill Core	26.3	0.9	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3486180	Rock Pulp	0.13	0.224	99.8	2813.5	23.0	80	0.5	62.7	15.7	570	4.54	21	6.1	21.5	355	<0.1	2.5	0.9	126	2.71
REP 3486180	QC			100.3	2828.9	23.8	85	0.5	65.5	16.0	570	4.53	20	5.7	20.2	358	0.1	2.5	0.9	128	2.69
3486205	Drill Core	3.59	0.007	0.2	373.5	3.3	79	0.4	42.7	27.9	1677	7.23	6	0.9	1.9	387	<0.1	1.2	<0.1	279	6.19
REP 3486205	QC		<0.005																		
3486210	Rock	1.33	<0.005	<0.1	0.9	0.4	2	<0.1	<0.1	0.6	132	0.10	2	0.1	<0.1	71	<0.1	<0.1	<0.1	<1	30.48
REP 3486210	QC		<0.005																		
3486214	Drill Core	4.67	0.008	0.2	53.8	8.2	50	<0.1	4.6	18.3	1105	5.01	7	1.1	2.2	1080	<0.1	1.6	<0.1	195	4.81
REP 3486214	QC			0.2	52.7	7.5	49	<0.1	4.5	19.6	1104	4.99	7	1.1	2.2	1078	<0.1	1.6	<0.1	198	4.86
3486249	Drill Core	4.83	0.009	1.4	94.6	6.6	64	0.1	20.4	26.2	1522	6.76	8	0.7	1.3	1103	<0.1	3.4	<0.1	264	5.82
REP 3486249	QC			1.6	89.7	6.9	63	0.1	19.9	26.0	1494	6.62	8	0.7	1.3	1158	<0.1	3.7	<0.1	261	5.82
3486280	Rock Pulp	0.11	0.286	9.6	2194.5	6.0	52	0.6	12.8	15.5	640	5.51	14	1.0	1.4	486	0.2	0.7	0.1	224	2.72
REP 3486280	QC		0.282																		
3486285	Drill Core	2.21	<0.005	0.1	8.7	4.8	83	<0.1	64.4	20.1	1719	5.60	6	1.2	2.4	638	<0.1	2.1	<0.1	183	5.90
REP 3486285	QC			<0.1	8.5	4.8	87	<0.1	64.6	19.1	1734	5.68	6	1.3	2.5	645	<0.1	2.1	<0.1	190	5.97
3486307	Drill Core	4.52	0.007	1.3	130.1	9.8	85	0.2	5.0	17.1	1405	4.70	6	0.9	1.9	1055	0.1	2.2	<0.1	194	4.57
REP 3486307	QC		0.008																		
Core Reject Duplicates																					
3486173	Drill Core	3.58	0.007	0.6	120.9	3.6	95	0.1	59.2	37.8	1644	7.50	6	1.3	2.6	706	<0.1	0.9	<0.1	282	5.70
DUP 3486173	QC		0.006	0.8	123.6	3.4	95	0.1	62.6	39.9	1682	7.62	6	1.4	2.4	717	<0.1	1.0	<0.1	289	5.64
3486207	Drill Core	4.96	0.009	1.9	99.1	4.3	56	0.2	11.8	22.2	1059	6.09	5	0.9	1.6	490	<0.1	1.2	<0.1	235	4.79
DUP 3486207	QC		0.012	1.9	101.4	4.5	57	0.1	11.8	23.0	1100	6.29	6	0.9	1.7	500	<0.1	1.3	<0.1	239	5.07
3486241	Drill Core	4.69	0.013	3.9	3.4	5.3	13	<0.1	0.3	2.7	339	1.92	4	1.4	3.0	283	<0.1	0.4	<0.1	18	1.07
DUP 3486241	QC		0.013	4.1	3.6	5.3	13	<0.1	0.3	2.6	345	1.99	4	1.5	3.1	312	<0.1	0.5	<0.1	18	1.13
Reference Materials																					
STD OREAS25A-4A	Standard			2.2	29.2	20.9	40	<0.1	42.7	7.3	471	6.28	8	2.4	13.4	44	<0.1	0.5	0.3	153	0.29
STD OREAS25A-4A	Standard			2.9	36.3	27.6	47	<0.1	49.4	8.5	539	7.24	8	3.2	19.0	58	0.3	0.7	0.4	172	0.32
STD OREAS25A-4A	Standard			2.2	33.0	22.7	44	<0.1	48.6	8.0	490	6.54	9	2.5	14.0	42	<0.1	0.6	0.3	159	0.28
STD OREAS25A-4A	Standard			2.4	34.0	21.4	46	<0.1	47.1	8.0	496	6.89	9	2.4	13.3	42	<0.1	0.5	0.3	160	0.30

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3486180	Rock Pulp	0.108	37.3	87	1.54	1057	0.504	7.82	2.150	3.48	4.7	74.4	77	3.4	26.3	17.7	1.4	3	13	36.8	0.3
REP 3486180	QC	0.116	36.4	85	1.54	1104	0.502	7.83	2.201	3.55	5.1	74.5	75	3.4	26.8	18.2	1.3	3	13	34.8	0.3
3486205	Drill Core	0.170	9.3	112	3.85	1742	0.401	6.58	1.977	2.76	0.5	32.0	19	0.6	11.0	3.1	0.2	<1	34	36.8	0.1
REP 3486205	QC																				
3486210	Rock	0.006	0.9	<1	2.12	10	0.005	0.05	0.035	0.01	<0.1	2.5	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.2	<0.1
REP 3486210	QC																				
3486214	Drill Core	0.182	12.8	3	1.74	1150	0.367	10.36	2.645	3.64	0.8	24.1	26	0.6	13.4	6.8	0.4	1	9	16.0	<0.1
REP 3486214	QC	0.181	12.8	3	1.72	1138	0.366	10.27	2.651	3.64	0.7	23.9	26	0.6	13.4	6.7	0.4	1	9	16.0	<0.1
3486249	Drill Core	0.191	9.1	27	2.40	824	0.777	8.11	2.502	2.43	1.5	41.1	23	1.0	19.9	9.6	0.6	1	19	14.4	0.1
REP 3486249	QC	0.206	9.6	25	2.36	846	0.753	7.89	2.487	2.54	1.6	43.5	24	1.0	21.0	9.8	0.7	<1	19	14.1	0.1
3486280	Rock Pulp	0.102	8.4	22	1.18	1360	0.295	8.06	3.272	4.44	0.8	39.2	18	1.8	16.7	2.6	0.2	<1	9	12.0	0.2
REP 3486280	QC																				
3486285	Drill Core	0.214	9.7	118	2.86	1214	0.290	7.80	1.854	3.91	1.2	16.7	19	0.5	10.9	3.6	0.2	<1	14	15.2	<0.1
REP 3486285	QC	0.194	9.9	117	2.89	1196	0.277	7.96	1.876	3.99	1.2	18.1	19	0.5	11.4	3.6	0.2	<1	13	15.1	<0.1
3486307	Drill Core	0.170	9.3	4	1.51	1052	0.361	8.38	3.426	2.70	0.4	28.5	19	0.7	11.7	7.7	0.4	1	7	10.0	<0.1
REP 3486307	QC																				
Core Reject Duplicates																					
3486173	Drill Core	0.212	12.1	123	4.67	977	0.427	7.43	2.035	2.48	1.0	42.0	23	0.6	15.2	4.2	0.2	2	37	30.2	<0.1
DUP 3486173	QC	0.200	11.4	125	4.78	908	0.435	7.52	2.082	2.54	1.0	48.1	23	0.6	14.9	4.4	0.2	1	37	29.2	<0.1
3486207	Drill Core	0.160	10.5	16	2.29	935	0.573	8.17	2.738	3.10	1.6	30.8	23	0.8	17.3	7.6	0.5	1	18	17.1	0.6
DUP 3486207	QC	0.167	10.7	15	2.35	960	0.588	8.54	2.796	3.22	1.7	31.0	23	0.9	17.6	7.5	0.5	1	19	17.7	0.7
3486241	Drill Core	0.043	11.7	2	0.38	468	0.167	7.26	1.668	6.38	1.3	45.0	25	0.8	14.0	11.0	0.7	<1	2	2.3	0.4
DUP 3486241	QC	0.046	13.8	2	0.38	506	0.173	7.39	1.752	6.62	1.2	48.5	29	0.6	15.2	11.6	0.7	<1	2	2.3	0.5
Reference Materials																					
STD OREAS25A-4A	Standard	0.043	21.7	115	0.32	126	0.866	9.47	0.127	0.46	1.8	145.7	47	3.5	8.9	17.4	1.2	<1	12	33.9	<0.1
STD OREAS25A-4A	Standard	0.055	26.8	136	0.39	166	0.994	10.02	0.132	0.55	2.0	165.3	59	4.3	12.0	20.6	1.6	<1	14	38.0	<0.1
STD OREAS25A-4A	Standard	0.049	19.5	124	0.34	139	0.905	8.83	0.136	0.46	1.8	138.0	44	3.6	8.5	17.4	1.3	<1	11	36.0	<0.1
STD OREAS25A-4A	Standard	0.051	17.4	115	0.36	144	0.923	8.66	0.137	0.44	1.6	136.4	42	3.4	8.7	17.3	1.3	<1	11	33.6	<0.1

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Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3486180	Rock Pulp	199.4	2.3	0.06	<0.005	<1	<0.5	1.1
REP 3486180	QC	206.9	2.5	0.07	<0.005	<1	<0.5	1.1
3486205	Drill Core	52.1	1.1	<0.05	<0.005	<1	<0.5	<0.5
REP 3486205	QC							
3486210	Rock	0.3	<0.1	<0.05	<0.005	<1	<0.5	<0.5
REP 3486210	QC							
3486214	Drill Core	57.1	0.9	<0.05	<0.005	<1	<0.5	<0.5
REP 3486214	QC	56.7	0.9	<0.05	<0.005	<1	<0.5	<0.5
3486249	Drill Core	35.8	1.4	<0.05	<0.005	<1	1.1	<0.5
REP 3486249	QC	36.0	1.5	0.06	0.005	<1	1.0	<0.5
3486280	Rock Pulp	88.3	1.3	0.09	0.034	3	<0.5	<0.5
REP 3486280	QC							
3486285	Drill Core	48.6	0.7	<0.05	<0.005	<1	1.0	<0.5
REP 3486285	QC	52.6	0.6	<0.05	<0.005	<1	1.0	<0.5
3486307	Drill Core	26.3	0.9	<0.05	<0.005	<1	<0.5	<0.5
REP 3486307	QC							
Core Reject Duplicates								
3486173	Drill Core	69.9	1.7	0.08	<0.005	1	1.8	<0.5
DUP 3486173	QC	71.8	1.6	<0.05	<0.005	<1	1.3	<0.5
3486207	Drill Core	61.8	1.1	<0.05	<0.005	1	<0.5	<0.5
DUP 3486207	QC	64.6	1.1	<0.05	<0.005	1	<0.5	<0.5
3486241	Drill Core	122.3	1.1	<0.05	<0.005	<1	<0.5	0.6
DUP 3486241	QC	133.9	1.0	<0.05	<0.005	<1	<0.5	0.6
Reference Materials								
STD OREAS25A-4A	Standard	58.9	4.0	0.08	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	67.8	4.9	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	55.9	3.9	0.06	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	55.2	3.8	0.08	<0.005	3	<0.5	<0.5

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.4	33.4	23.4	48	<0.1	45.2	7.6	494	7.01	10	2.6	14.9	47	<0.1	0.5	0.3	155	0.30
STD OREAS45H	Standard			1.5	785.4	11.6	38	0.2	423.1	91.5	389	20.97	15	1.5	7.0	29	<0.1	0.5	0.2	266	0.14
STD OREAS45E	Standard			2.5	788.2	19.6	46	0.3	472.2	62.7	564	25.67	16	2.6	14.3	18	0.2	1.2	0.3	326	0.06
STD OREAS45H	Standard			1.5	791.6	12.0	42	<0.1	461.3	96.5	413	20.90	17	1.6	7.2	29	<0.1	0.5	0.2	280	0.14
STD OREAS45E	Standard			2.3	778.8	17.4	47	0.3	501.2	58.1	567	25.55	17	2.3	12.6	17	<0.1	1.0	0.2	335	0.07
STD OREAS45E	Standard			2.4	793.9	18.5	50	0.3	487.0	61.3	552	26.00	19	2.3	12.8	17	<0.1	0.8	0.2	327	0.07
STD OXB130	Standard		0.120																		
STD OXB130	Standard		0.120																		
STD OXB130	Standard		0.119																		
STD OXB130	Standard		0.117																		
STD OXG141	Standard		0.944																		
STD OXG141	Standard		0.926																		
STD OXG141	Standard		0.916																		
STD OXG141	Standard		0.898																		
STD OXN155	Standard		7.277																		
STD OXN155	Standard		7.858																		
STD OXN155	Standard		7.510																		
STD OXN155	Standard		7.711																		
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
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BLK	Blank		<0.005																		
BLK	Blank		<0.005																		

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.053	21.1	117	0.35	147	0.955	8.93	0.131	0.50	1.7	153.6	48	3.7	10.9	20.4	1.4	<1	13	40.5	<0.1
STD OREAS45H	Standard	0.022	12.5	667	0.27	338	0.858	8.54	0.102	0.21	0.9	127.2	25	1.8	9.0	13.1	0.9	1	59	14.2	<0.1
STD OREAS45E	Standard	0.037	12.2	1051	0.17	276	0.548	7.08	0.054	0.34	1.0	102.2	27	1.5	8.8	6.5	0.5	<1	89	6.5	<0.1
STD OREAS45H	Standard	0.023	12.2	661	0.26	327	0.889	8.47	0.102	0.21	0.8	120.4	24	1.8	9.3	13.4	1.0	1	60	13.2	<0.1
STD OREAS45E	Standard	0.035	10.7	1068	0.18	260	0.535	6.86	0.064	0.36	1.1	95.0	25	1.2	7.7	6.1	0.5	<1	92	6.2	<0.1
STD OREAS45E	Standard	0.038	10.8	1056	0.17	262	0.554	6.98	0.061	0.37	0.9	102.0	25	1.2	8.5	6.5	0.6	<1	103	7.0	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank																				
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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	60.7	4.0	0.14	<0.005	2	<0.5	<0.5
STD OREAS45H	Standard	22.2	3.5	0.10	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	22.1	3.0	0.07	<0.005	4	<0.5	<0.5
STD OREAS45H	Standard	23.0	3.5	0.13	<0.005	2	<0.5	<0.5
STD OREAS45E	Standard	21.5	3.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	22.2	3.1	0.08	<0.005	2	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank							
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Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank		0.006																		
BLK	Blank		0.005																		
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	1	<0.01	1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.2	<0.2	3	<0.01	<1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.3	<0.2	3	<0.01	<1	<0.1	<0.1	2	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.8	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	0.7	2.8	2.4	29	<0.1	0.6	3.4	606	1.98	3	1.4	3.1	219	<0.1	<0.1	<0.1	30	1.67
ROCK-VAN	Prep Blank		<0.005	0.6	3.6	2.3	31	<0.1	0.7	3.5	597	2.03	3	1.4	3.2	203	0.2	0.1	<0.1	30	1.55

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.2	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	2	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.036	13.1	3	0.48	659	0.187	7.02	3.762	1.26	0.3	47.5	27	0.8	16.6	5.5	0.4	1	6	2.3	<0.1
ROCK-VAN	Prep Blank	0.036	13.2	3	0.46	642	0.187	7.05	3.735	1.26	0.2	48.0	27	0.7	16.2	5.6	0.4	1	6	2.3	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001252.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
Prep Wash								
ROCK-VAN	Prep Blank	26.3	1.6	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	26.7	1.9	0.05	<0.005	<1	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 02, 2020
Analysis Start:	July 08, 2020
Report Date:	July 15, 2020
Page:	1 of 6

CERTIFICATE OF ANALYSIS VAN20001256.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_09
P.O. Number	M22165
Number of Samples:	128

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	119	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	3	Split samples by riffle splitter			VAN
PUL85	3	Pulverize to 85% passing 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA430	128	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	128	Environmental disposal charge-Fire assay lead waste			VAN
MA200	128	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

JEFFREY CANNON
Geochemistry Department Supervisor

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346545	Drill Core	4.34	0.031	0.8	114.2	5.7	49	0.1	6.7	19.9	983	4.94	4	0.4	1.0	434	0.1	2.0	<0.1	211	4.90
3346546	Drill Core	4.30	0.015	1.3	114.1	6.3	51	0.2	5.5	19.7	1055	4.76	3	0.5	1.1	403	0.1	1.8	<0.1	198	5.01
3346547	Drill Core	4.40	0.016	2.7	112.4	7.2	68	0.2	5.6	19.6	1190	4.86	3	0.5	1.1	362	0.1	2.0	<0.1	197	5.04
3346548	Drill Core	3.42	0.016	0.7	209.2	9.4	97	0.3	17.5	44.0	1673	8.08	4	0.2	0.4	272	0.4	3.7	<0.1	455	9.35
3346549	Drill Core	5.25	0.022	0.7	195.0	7.2	106	0.3	15.6	35.7	2482	7.72	9	0.3	0.5	235	0.2	1.4	0.3	367	5.63
3346550	Rock	1.34	0.006	<0.1	1.8	0.4	2	<0.1	<0.1	1.2	134	0.11	<1	0.2	<0.1	75	<0.1	<0.1	<0.1	1	33.70
3346551	Drill Core	5.26	0.044	0.6	357.1	11.3	107	0.5	13.5	35.8	2381	7.77	13	0.3	0.5	315	0.2	1.2	0.4	363	6.85
3346552	Drill Core	3.76	0.009	0.4	306.0	6.9	87	0.4	12.9	41.6	1818	8.56	4	0.3	0.6	694	0.2	1.7	<0.1	429	7.18
3346553	Drill Core	5.10	0.032	0.5	367.7	8.3	115	0.4	13.2	43.2	2016	8.68	5	0.4	0.5	511	0.3	1.5	<0.1	433	7.08
3346554	Drill Core	4.85	0.013	0.7	234.3	5.5	133	0.3	17.7	57.4	3078	11.28	8	0.4	0.6	752	<0.1	2.7	<0.1	567	7.64
3346555	Drill Core	5.09	0.036	0.6	219.4	4.6	102	0.3	29.7	54.2	2153	12.34	6	0.5	0.8	630	0.1	1.8	<0.1	694	8.16
3346556	Drill Core	4.00	0.021	0.5	175.5	6.9	93	0.2	18.4	47.8	1923	9.90	12	0.2	0.4	807	<0.1	3.0	<0.1	532	8.52
3346557	Drill Core	5.14	0.023	0.6	369.2	4.9	118	0.5	23.3	46.1	2381	14.02	8	0.2	0.4	561	0.1	2.6	<0.1	759	7.94
3346558	Drill Core	4.91	0.010	0.5	88.6	5.5	102	0.1	14.7	37.9	1880	9.22	6	0.1	0.2	557	<0.1	2.5	<0.1	467	7.11
3346559	Drill Core	4.07	0.011	0.6	190.7	5.6	88	0.2	13.5	48.8	2018	10.22	9	0.1	0.3	815	0.1	3.5	<0.1	536	9.17
3346560	Rock Pulp	0.13	0.657	338.0	5134.9	19.3	72	1.4	36.2	16.8	544	4.74	69	4.5	14.9	342	0.1	3.2	1.4	118	2.58
3346561	Drill Core	3.09	0.028	0.5	321.7	7.0	106	0.4	12.0	51.4	2124	9.57	3	0.2	0.2	344	0.2	1.7	<0.1	514	8.62
3346562	Drill Core	4.85	0.039	0.4	40.9	6.5	121	<0.1	13.0	29.9	2499	9.36	3	0.2	0.2	258	0.4	1.5	<0.1	441	9.22
3346563	Drill Core	3.97	0.011	0.8	68.1	5.6	133	0.1	12.2	32.7	3942	8.87	2	0.4	0.2	244	0.2	0.9	<0.1	426	10.09
3346564	Drill Core	3.77	0.008	0.4	105.2	7.5	111	0.1	11.4	36.0	1905	8.18	2	0.2	0.3	248	0.2	1.0	<0.1	387	6.88
3346565	Drill Core	5.11	0.057	0.4	263.4	5.6	107	0.3	13.6	54.9	2031	9.86	5	0.2	0.3	555	0.2	2.0	<0.1	493	8.19
3346566	Drill Core	4.73	0.018	0.3	310.5	4.6	84	0.3	13.7	45.7	1675	8.61	4	0.1	0.2	695	0.1	2.3	<0.1	442	8.27
3346567	Drill Core	4.66	0.022	30.7	171.8	20.3	208	0.3	19.5	37.1	3146	8.59	5	1.1	0.8	322	0.5	0.8	0.3	433	6.53
3346568	Drill Core	4.85	0.010	1.2	114.8	11.3	213	0.1	18.0	39.8	3326	9.84	3	0.4	0.4	243	0.2	0.9	<0.1	460	6.14
3346569	Drill Core	4.60	0.008	1.0	103.7	8.0	161	0.1	15.0	41.9	3640	10.22	<1	0.3	0.3	240	<0.1	0.9	<0.1	496	7.71
3346570	Rock	1.38	<0.005	<0.1	0.6	0.6	3	<0.1	<0.1	0.2	130	0.09	<1	0.1	<0.1	92	<0.1	<0.1	<0.1	1	32.63
3346571	Drill Core	4.72	0.009	1.2	132.8	8.0	201	0.1	16.4	42.3	4018	10.19	1	0.4	0.2	303	<0.1	1.0	<0.1	463	7.88
3346572	Drill Core	5.01	0.010	1.1	91.5	4.7	188	0.1	17.7	44.1	3525	10.47	3	0.3	0.3	338	<0.1	1.4	<0.1	489	7.07
3346573	Drill Core	4.40	0.018	3.1	264.3	5.6	162	0.3	17.7	46.4	2793	8.61	4	0.5	0.3	454	0.2	1.5	<0.1	410	7.32
3346574	Drill Core	4.60	0.016	1.6	149.2	4.8	154	0.2	18.5	39.6	3116	8.57	2	0.3	0.2	439	<0.1	1.0	<0.1	393	7.46

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346545	Drill Core	0.183	6.2	4	1.58	675	0.259	7.55	2.575	3.40	1.4	16.1	15	0.6	7.6	3.4	0.2	1	9	18.0	<0.1
3346546	Drill Core	0.174	6.1	3	1.35	818	0.224	7.36	2.889	3.48	1.5	17.9	15	0.6	7.2	3.0	0.2	1	9	15.1	0.2
3346547	Drill Core	0.184	7.2	4	1.44	653	0.246	7.72	2.882	3.34	0.3	17.2	17	0.6	8.0	3.1	0.2	1	10	16.0	0.2
3346548	Drill Core	0.063	3.7	6	2.28	246	0.294	6.42	1.047	2.55	0.5	7.3	8	0.4	6.7	0.7	<0.1	<1	29	23.2	0.3
3346549	Drill Core	0.064	3.7	11	3.08	475	0.421	6.73	0.711	4.85	1.3	8.4	7	0.5	8.4	1.4	0.1	1	24	30.0	1.8
3346550	Rock	0.007	1.0	1	1.94	11	0.005	0.06	0.026	0.01	<0.1	1.2	<1	<0.1	1.8	<0.1	<0.1	<1	<1	0.7	<0.1
3346551	Drill Core	0.075	4.2	10	3.05	464	0.430	6.97	1.086	3.73	0.7	8.4	9	0.6	10.4	1.7	0.1	1	25	35.7	2.1
3346552	Drill Core	0.097	5.1	9	3.26	542	0.526	8.16	1.498	3.00	0.4	13.0	11	0.5	12.3	2.4	0.1	2	27	31.9	0.3
3346553	Drill Core	0.073	4.2	9	3.55	626	0.497	7.94	1.137	3.03	0.6	13.7	9	0.5	10.9	1.8	0.1	2	28	33.3	0.7
3346554	Drill Core	0.077	4.6	12	4.00	502	0.639	7.14	1.032	1.73	1.0	15.4	10	0.7	12.6	1.9	0.1	1	36	26.2	0.5
3346555	Drill Core	0.063	4.8	29	3.54	566	0.717	6.46	1.128	1.85	0.8	17.3	10	0.7	12.6	2.4	0.2	1	33	20.1	0.6
3346556	Drill Core	0.049	3.7	16	3.69	363	0.602	8.21	1.337	1.34	0.5	13.1	8	0.5	11.8	1.5	0.1	<1	32	22.3	1.0
3346557	Drill Core	0.085	4.3	11	3.83	351	0.877	6.36	1.101	1.30	1.0	14.3	9	0.7	13.2	1.6	0.1	<1	36	20.8	0.7
3346558	Drill Core	0.038	2.9	5	3.22	398	0.546	8.00	1.657	1.94	0.8	9.2	6	0.5	9.3	0.9	<0.1	<1	28	25.2	0.6
3346559	Drill Core	0.034	2.8	4	3.81	274	0.601	7.27	1.061	1.56	0.7	14.3	7	0.6	11.1	1.1	<0.1	<1	33	17.1	<0.1
3346560	Rock Pulp	0.103	30.5	65	1.39	900	0.498	7.34	2.002	3.20	3.7	82.2	62	3.1	20.4	18.1	1.4	3	12	28.2	0.8
3346561	Drill Core	0.037	2.8	3	3.62	485	0.565	7.31	1.204	2.34	0.9	9.2	6	0.6	10.3	1.0	<0.1	1	32	24.6	0.4
3346562	Drill Core	0.085	3.4	3	2.88	385	0.450	6.20	0.761	2.52	1.9	3.8	7	0.4	8.4	0.8	<0.1	1	22	21.7	0.4
3346563	Drill Core	0.033	7.2	2	3.12	821	0.453	7.33	0.722	4.34	1.7	5.6	15	0.4	13.5	1.1	<0.1	2	30	24.4	0.8
3346564	Drill Core	0.041	2.7	3	3.19	589	0.413	8.18	1.351	2.57	0.5	6.5	6	0.4	7.1	1.1	<0.1	1	21	25.9	0.5
3346565	Drill Core	0.038	2.9	4	3.94	398	0.598	7.22	0.955	2.35	0.7	13.8	6	0.5	10.3	1.1	<0.1	<1	30	19.3	0.4
3346566	Drill Core	0.031	2.2	4	3.69	333	0.497	7.82	0.751	2.36	0.4	12.2	5	0.4	8.3	0.9	<0.1	<1	25	18.8	0.1
3346567	Drill Core	0.074	3.7	27	3.72	504	0.393	7.33	1.306	4.19	0.9	15.1	8	0.6	9.2	1.7	<0.1	2	26	19.3	1.6
3346568	Drill Core	0.051	3.6	16	3.62	747	0.331	7.81	0.710	3.25	1.3	6.1	8	0.5	8.3	0.8	<0.1	2	26	23.6	0.8
3346569	Drill Core	0.038	4.6	3	3.48	797	0.533	7.29	0.786	3.57	1.4	16.2	9	0.6	11.7	1.3	<0.1	<1	29	20.4	0.6
3346570	Rock	0.007	1.3	<1	1.94	14	0.006	0.06	0.017	0.01	<0.1	1.6	1	0.1	2.3	0.1	<0.1	<1	<1	0.7	<0.1
3346571	Drill Core	0.034	5.2	4	3.42	874	0.528	7.55	0.743	3.86	1.0	12.4	10	0.6	13.2	1.3	<0.1	<1	30	22.5	0.5
3346572	Drill Core	0.032	4.6	5	3.82	865	0.586	7.49	0.655	3.66	1.1	9.3	9	0.7	12.2	1.1	<0.1	<1	30	25.1	0.3
3346573	Drill Core	0.035	3.2	5	3.72	881	0.492	7.93	0.607	3.51	1.0	8.8	7	0.6	11.0	1.3	<0.1	2	26	37.8	0.3
3346574	Drill Core	0.027	3.6	6	3.50	979	0.492	7.74	0.455	3.49	0.8	7.9	8	0.5	10.6	1.0	<0.1	2	24	38.6	0.2

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346545	Drill Core	66.4	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346546	Drill Core	67.0	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346547	Drill Core	84.0	0.6	<0.05	0.006	<1	<0.5	<0.5
3346548	Drill Core	101.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
3346549	Drill Core	153.2	0.4	<0.05	<0.005	2	<0.5	0.8
3346550	Rock	0.3	<0.1	<0.05	<0.005	1	<0.5	<0.5
3346551	Drill Core	113.5	0.5	0.06	<0.005	2	<0.5	0.7
3346552	Drill Core	75.3	0.6	<0.05	<0.005	1	<0.5	<0.5
3346553	Drill Core	85.6	0.6	<0.05	<0.005	2	<0.5	<0.5
3346554	Drill Core	44.4	0.7	0.06	<0.005	1	<0.5	<0.5
3346555	Drill Core	44.8	0.8	0.05	<0.005	1	<0.5	<0.5
3346556	Drill Core	34.0	0.7	0.05	<0.005	1	<0.5	<0.5
3346557	Drill Core	34.4	0.8	0.06	<0.005	1	<0.5	<0.5
3346558	Drill Core	54.9	0.6	<0.05	<0.005	1	<0.5	<0.5
3346559	Drill Core	47.4	0.7	0.06	<0.005	<1	<0.5	<0.5
3346560	Rock Pulp	165.9	2.5	0.08	0.229	3	<0.5	0.9
3346561	Drill Core	75.0	0.5	0.05	<0.005	1	<0.5	<0.5
3346562	Drill Core	84.9	0.3	<0.05	<0.005	<1	<0.5	<0.5
3346563	Drill Core	130.7	0.4	0.06	<0.005	2	<0.5	0.7
3346564	Drill Core	73.8	0.3	<0.05	<0.005	1	<0.5	<0.5
3346565	Drill Core	69.4	0.7	<0.05	<0.005	1	<0.5	<0.5
3346566	Drill Core	53.9	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346567	Drill Core	166.6	0.5	<0.05	0.059	3	1.6	1.0
3346568	Drill Core	81.6	0.2	<0.05	<0.005	<1	1.3	0.5
3346569	Drill Core	105.2	0.4	0.08	<0.005	<1	0.6	<0.5
3346570	Rock	0.2	<0.1	<0.05	<0.005	<1	3.0	<0.5
3346571	Drill Core	137.3	0.7	<0.05	<0.005	<1	0.6	0.8
3346572	Drill Core	129.8	0.4	0.08	<0.005	<1	0.7	0.7
3346573	Drill Core	95.0	0.4	0.08	<0.005	<1	<0.5	0.6
3346574	Drill Core	89.0	0.3	0.07	<0.005	<1	0.6	0.7

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346575	Core DUP		0.016	1.8	144.3	4.8	153	0.2	18.3	40.1	3092	8.56	2	0.3	0.2	429	<0.1	1.2	<0.1	399	7.35
3346576	Drill Core	4.41	0.042	0.7	165.6	4.5	161	0.2	13.9	44.0	2700	8.00	2	0.2	0.2	429	<0.1	1.3	<0.1	367	6.52
3346577	Drill Core	5.31	0.019	0.6	530.1	3.2	142	0.6	22.5	62.9	2447	12.48	3	0.2	0.4	540	0.2	1.7	<0.1	640	9.15
3346578	Drill Core	5.09	0.016	0.6	555.7	4.2	123	0.7	19.1	60.0	2263	11.71	3	0.3	0.4	539	0.3	1.5	<0.1	589	9.34
3346579	Drill Core	4.59	0.014	0.8	308.1	5.0	111	0.3	18.5	49.3	1787	9.19	4	0.3	0.5	756	<0.1	1.9	<0.1	452	8.46
3346580	Rock Pulp	0.11	0.339	10.4	2236.8	7.2	54	0.6	11.8	15.8	648	5.54	15	1.1	1.5	516	0.2	0.7	0.1	225	2.68
3346581	Drill Core	4.24	0.013	1.0	381.1	6.5	115	0.4	26.1	48.4	1991	8.37	4	0.6	1.2	939	0.2	2.5	<0.1	386	8.31
3346582	Drill Core	4.33	0.011	5.4	35.4	3.9	24	<0.1	3.0	9.7	673	2.48	2	1.8	3.9	283	<0.1	0.4	<0.1	61	2.04
3346583	Drill Core	4.55	0.008	6.6	15.3	3.4	19	<0.1	0.9	4.9	451	1.94	2	2.4	5.5	301	<0.1	0.4	<0.1	36	1.24
3346584	Drill Core	3.96	<0.005	6.2	11.0	3.4	19	<0.1	1.4	4.2	499	2.10	1	2.3	5.3	331	<0.1	0.4	<0.1	38	1.31
3346585	Drill Core	2.86	0.005	6.5	12.3	3.4	18	<0.1	0.8	2.7	442	1.59	1	2.1	4.9	255	<0.1	0.3	<0.1	30	1.28
3346586	Drill Core	1.73	0.006	4.2	111.7	7.6	109	0.1	37.1	28.8	1893	6.57	4	1.3	2.6	523	<0.1	0.7	<0.1	261	6.12
3346587	Drill Core	1.85	0.007	6.4	39.3	6.6	25	<0.1	1.0	4.5	459	1.75	2	2.0	4.7	274	<0.1	0.3	<0.1	45	1.74
3346588	Drill Core	3.34	0.008	1.3	85.5	4.5	79	0.1	157.5	42.9	1459	6.52	3	1.2	1.9	541	<0.1	0.7	<0.1	236	6.55
3346589	Drill Core	3.03	0.008	2.3	151.7	3.2	112	0.2	197.5	49.9	2056	6.91	5	1.3	2.1	777	<0.1	0.9	<0.1	233	6.75
3346590	Rock	1.35	<0.005	<0.1	1.4	0.4	3	<0.1	0.2	0.3	131	0.09	<1	<0.1	<0.1	85	<0.1	<0.1	<0.1	1	31.99
3346591	Drill Core	3.39	<0.005	7.5	52.5	3.3	109	<0.1	187.1	44.7	2138	6.83	3	0.9	1.7	696	<0.1	0.9	<0.1	235	6.68
3346592	Drill Core	4.31	0.006	11.2	70.8	3.7	117	<0.1	183.5	40.0	2841	7.07	3	0.9	1.8	669	<0.1	1.1	<0.1	242	7.62
3346593	Drill Core	4.91	0.011	4.9	118.2	3.5	115	0.1	193.8	47.0	3099	7.32	4	1.1	1.8	663	<0.1	1.0	<0.1	292	8.83
3346594	Drill Core	4.74	0.008	3.5	87.5	3.4	95	0.1	199.3	46.6	1638	6.64	4	1.0	2.1	746	<0.1	1.1	<0.1	232	6.56
3346595	Drill Core	4.67	0.008	3.9	115.7	3.4	82	0.1	191.0	53.2	1524	6.79	4	1.4	2.2	778	<0.1	0.9	<0.1	266	6.87
3346596	Drill Core	4.85	<0.005	0.9	57.6	2.7	83	<0.1	197.9	49.9	1529	6.87	5	1.1	2.2	872	<0.1	1.1	<0.1	235	6.52
3346597	Drill Core	4.02	0.012	0.4	440.4	5.0	89	0.4	13.9	47.5	1983	9.53	4	0.4	0.4	1054	<0.1	1.7	<0.1	495	8.31
3346598	Drill Core	4.92	0.007	0.5	194.2	4.4	90	0.2	11.9	44.6	1986	8.72	4	0.2	0.3	791	<0.1	1.6	<0.1	441	8.18
3346599	Drill Core	2.52	0.007	0.8	132.2	5.9	104	0.1	45.8	62.3	2586	13.90	5	0.5	0.9	768	<0.1	2.3	<0.1	721	7.72
3346600	Rock Pulp	0.13	0.221	92.9	2635.3	23.1	81	0.4	66.2	16.3	537	4.24	20	4.9	18.3	321	0.2	2.3	0.8	119	2.52
3346601	Drill Core	5.38	0.006	5.1	13.8	3.6	28	<0.1	1.7	6.2	707	2.36	2	2.1	4.3	299	<0.1	0.9	<0.1	69	2.07
3346602	Drill Core	3.59	<0.005	4.5	13.2	3.7	26	<0.1	1.7	5.0	567	2.03	2	2.5	5.5	280	<0.1	0.7	<0.1	58	1.48
3346603	Drill Core	4.88	0.006	0.3	289.7	10.1	131	0.4	11.1	39.3	1862	8.67	6	0.3	0.6	992	0.2	1.6	<0.1	442	8.31
3346604	Drill Core	4.27	0.011	4.8	15.9	7.0	44	<0.1	1.5	6.2	880	2.28	3	2.2	4.4	347	<0.1	1.6	<0.1	72	2.37

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346575	Core DUP	0.030	3.5	6	3.51	937	0.482	7.78	0.445	3.41	0.9	8.0	7	0.5	10.1	1.0	<0.1	1	24	36.9	0.2
3346576	Drill Core	0.033	2.4	4	3.53	1010	0.470	7.79	0.625	3.29	0.6	8.6	6	0.5	8.2	1.2	<0.1	<1	21	28.2	0.1
3346577	Drill Core	0.046	3.4	7	4.55	313	0.752	5.80	0.789	1.26	0.4	30.9	8	0.7	15.8	1.4	<0.1	1	40	15.5	0.1
3346578	Drill Core	0.040	3.2	6	4.29	435	0.691	6.50	0.865	1.79	0.7	16.4	8	0.7	13.9	1.5	<0.1	1	38	18.9	0.3
3346579	Drill Core	0.046	3.8	16	4.02	476	0.547	7.56	1.084	1.75	0.8	14.0	8	0.5	11.7	1.3	<0.1	<1	32	22.3	0.1
3346580	Rock Pulp	0.119	7.6	23	1.17	1385	0.351	7.75	2.955	4.00	0.8	40.1	16	2.4	17.0	2.7	0.2	1	10	11.6	0.3
3346581	Drill Core	0.084	6.3	36	3.76	925	0.484	7.53	1.170	2.12	0.9	24.3	12	0.7	12.5	2.4	0.1	1	29	17.8	0.2
3346582	Drill Core	0.067	9.9	5	0.55	1226	0.262	7.55	3.590	3.83	1.1	69.7	21	1.2	14.8	11.3	0.8	2	5	1.3	0.3
3346583	Drill Core	0.047	14.9	2	0.38	1359	0.224	8.81	3.784	3.90	1.0	78.2	28	1.3	17.7	12.8	1.0	2	3	1.3	0.2
3346584	Drill Core	0.046	14.2	3	0.39	1273	0.230	8.80	3.749	3.53	1.0	75.6	27	1.2	17.3	11.9	0.9	1	4	1.8	0.1
3346585	Drill Core	0.032	12.7	3	0.32	1230	0.187	7.95	3.051	3.83	0.8	76.2	24	1.1	14.6	10.9	0.8	1	3	1.0	0.1
3346586	Drill Core	0.183	11.1	80	3.48	1181	0.412	6.67	1.167	3.64	0.9	34.8	22	0.8	13.0	3.8	0.2	1	28	17.6	0.2
3346587	Drill Core	0.039	11.9	3	0.45	1369	0.190	7.47	2.572	5.52	0.9	84.2	23	1.1	14.2	10.7	0.8	2	3	2.1	0.4
3346588	Drill Core	0.194	8.5	302	5.98	1178	0.318	6.27	0.760	4.50	1.0	26.0	16	0.5	9.9	3.0	0.6	2	23	35.0	0.2
3346589	Drill Core	0.197	10.4	352	6.87	924	0.343	6.01	0.786	2.87	1.1	30.8	18	0.6	11.3	2.6	0.1	3	23	35.8	<0.1
3346590	Rock	0.006	1.2	2	2.43	13	0.006	0.06	0.023	0.02	0.1	1.4	1	0.1	2.2	0.1	<0.1	<1	<1	0.7	<0.1
3346591	Drill Core	0.201	8.8	331	6.75	768	0.322	6.15	0.924	2.89	0.9	27.5	17	0.5	9.9	2.3	0.1	1	24	35.6	0.1
3346592	Drill Core	0.202	8.2	311	6.06	774	0.318	6.23	0.683	2.76	1.3	21.0	16	0.5	9.6	2.4	0.1	1	23	32.5	0.4
3346593	Drill Core	0.214	9.2	318	5.96	987	0.340	6.62	0.533	3.17	1.4	21.1	18	0.5	10.7	2.5	0.1	2	25	37.7	0.6
3346594	Drill Core	0.200	9.5	368	6.64	1141	0.344	6.17	0.521	3.42	0.9	34.5	18	0.5	11.3	2.6	0.1	2	23	32.4	0.1
3346595	Drill Core	0.203	9.6	371	6.70	1068	0.351	6.22	0.571	3.87	1.3	39.6	19	0.6	12.4	2.7	0.1	2	24	35.6	0.2
3346596	Drill Core	0.214	10.2	372	6.55	1086	0.351	6.14	0.681	3.39	1.0	36.2	19	0.6	11.5	2.6	0.1	<1	24	34.7	<0.1
3346597	Drill Core	0.054	4.5	6	3.76	492	0.598	7.73	0.976	1.74	0.7	14.3	10	0.6	13.8	1.9	0.1	1	29	22.4	0.3
3346598	Drill Core	0.040	3.7	6	3.51	517	0.533	8.12	1.179	1.96	0.9	12.9	8	0.5	12.2	1.4	<0.1	1	26	21.3	0.2
3346599	Drill Core	0.066	5.3	73	4.02	449	0.880	6.77	0.919	1.63	1.4	20.5	11	0.6	14.6	2.2	0.1	1	30	17.9	0.3
3346600	Rock Pulp	0.097	31.4	88	1.42	1008	0.464	7.08	1.955	3.17	3.9	71.8	64	3.6	25.1	17.8	1.3	2	12	33.0	0.3
3346601	Drill Core	0.066	9.5	4	0.58	1268	0.236	7.56	3.469	3.26	1.5	68.6	20	0.9	12.8	10.0	0.8	2	4	1.8	0.3
3346602	Drill Core	0.045	13.0	4	0.48	1444	0.212	7.44	3.296	3.59	1.1	72.3	24	0.9	12.8	10.5	0.8	<1	4	1.0	0.2
3346603	Drill Core	0.143	5.7	4	3.43	554	0.528	8.55	1.277	1.94	0.5	13.5	13	0.6	14.0	2.1	0.1	1	25	15.9	0.5
3346604	Drill Core	0.065	9.9	3	0.63	1611	0.222	7.40	2.032	6.32	1.3	74.5	20	0.9	12.7	9.9	0.7	<1	4	2.4	0.4

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346575	Core DUP	90.6	0.3	0.06	<0.005	<1	<0.5	0.7
3346576	Drill Core	61.3	0.3	0.07	<0.005	<1	0.6	0.7
3346577	Drill Core	46.6	0.9	0.15	<0.005	<1	1.5	<0.5
3346578	Drill Core	59.4	0.8	0.06	<0.005	1	0.8	<0.5
3346579	Drill Core	53.7	0.7	<0.05	<0.005	<1	0.5	<0.5
3346580	Rock Pulp	66.8	1.3	0.09	0.024	1	<0.5	<0.5
3346581	Drill Core	59.0	0.9	0.06	<0.005	<1	1.0	<0.5
3346582	Drill Core	64.3	1.7	<0.05	<0.005	<1	<0.5	<0.5
3346583	Drill Core	74.4	2.0	<0.05	<0.005	<1	<0.5	<0.5
3346584	Drill Core	68.0	1.8	<0.05	<0.005	<1	<0.5	<0.5
3346585	Drill Core	72.0	2.0	<0.05	<0.005	<1	<0.5	<0.5
3346586	Drill Core	95.8	0.9	<0.05	<0.005	<1	0.7	0.6
3346587	Drill Core	75.4	2.0	<0.05	<0.005	<1	<0.5	<0.5
3346588	Drill Core	144.2	1.0	0.44	<0.005	<1	<0.5	0.8
3346589	Drill Core	79.5	0.9	<0.05	<0.005	<1	0.6	<0.5
3346590	Rock	0.4	<0.1	<0.05	<0.005	<1	0.6	<0.5
3346591	Drill Core	93.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3346592	Drill Core	87.6	0.7	<0.05	<0.005	<1	<0.5	<0.5
3346593	Drill Core	119.6	0.9	<0.05	<0.005	1	<0.5	0.6
3346594	Drill Core	99.8	1.9	<0.05	<0.005	<1	1.5	<0.5
3346595	Drill Core	125.7	1.0	<0.05	<0.005	<1	0.9	0.6
3346596	Drill Core	113.7	1.1	<0.05	<0.005	<1	1.2	0.6
3346597	Drill Core	68.0	0.6	0.06	<0.005	<1	<0.5	<0.5
3346598	Drill Core	53.1	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346599	Drill Core	60.5	2.4	0.07	<0.005	<1	0.7	<0.5
3346600	Rock Pulp	166.3	2.4	<0.05	<0.005	<1	0.5	1.0
3346601	Drill Core	57.2	1.8	<0.05	<0.005	<1	<0.5	<0.5
3346602	Drill Core	66.3	2.1	<0.05	<0.005	<1	<0.5	<0.5
3346603	Drill Core	53.8	0.7	0.06	<0.005	<1	<0.5	<0.5
3346604	Drill Core	115.1	1.8	<0.05	<0.005	2	<0.5	0.6

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346605	Core DUP		0.010	4.4	15.0	6.7	42	<0.1	1.9	6.2	845	2.20	3	2.0	3.9	316	<0.1	1.3	<0.1	70	2.32
3346606	Drill Core	3.92	0.028	7.1	40.3	6.4	38	<0.1	1.4	4.6	745	1.91	3	2.5	5.0	291	<0.1	0.8	<0.1	54	1.68
3346607	Drill Core	5.27	0.008	3.8	30.1	4.9	27	<0.1	1.6	4.5	608	1.97	1	2.5	5.1	288	<0.1	0.7	<0.1	51	1.58
3346608	Drill Core	4.50	<0.005	4.1	9.1	4.6	24	<0.1	1.6	4.0	536	1.83	2	2.4	5.3	293	<0.1	0.6	<0.1	51	1.53
3346609	Drill Core	4.23	0.192	2.8	80.4	4.8	110	0.5	17.9	15.5	1375	3.91	4	1.8	3.2	298	<0.1	0.5	<0.1	151	3.79
3346610	Rock	1.26	<0.005	<0.1	1.5	0.7	4	<0.1	0.5	0.3	153	0.10	<1	0.1	<0.1	89	<0.1	<0.1	<0.1	1	32.88
3346611	Drill Core	3.11	0.103	0.4	237.7	8.6	110	0.6	9.0	37.5	1590	7.19	13	0.8	0.8	435	0.1	0.7	0.2	363	5.28
3346612	Drill Core	3.46	0.006	0.4	132.9	5.8	103	0.2	10.2	35.3	1704	8.14	6	0.3	0.7	1244	<0.1	2.3	<0.1	402	7.14
3346613	Drill Core	4.67	<0.005	0.5	267.5	7.8	147	0.4	11.2	46.5	2091	9.45	4	0.7	0.5	702	0.3	1.3	0.3	524	7.85
3346614	Drill Core	2.39	<0.005	0.5	205.4	7.5	165	0.3	8.8	40.3	2314	8.04	4	0.7	0.6	371	<0.1	0.6	0.2	408	6.54
3346615	Drill Core	5.27	<0.005	8.8	48.4	5.4	63	<0.1	18.9	10.5	1317	2.85	4	2.5	4.3	231	<0.1	0.8	0.1	93	2.61
3346616	Drill Core	4.90	<0.005	4.6	25.4	5.8	45	<0.1	1.5	5.6	1019	2.26	4	2.4	4.7	242	0.1	1.0	0.1	75	2.05
3346617	Drill Core	5.56	<0.005	0.3	139.5	11.9	155	0.2	19.6	41.1	3090	8.71	4	0.3	0.6	368	<0.1	0.9	<0.1	420	6.60
3346618	Drill Core	4.77	0.089	1.4	293.6	24.1	183	0.4	19.5	42.5	3008	8.28	5	0.8	0.5	377	0.8	0.5	0.1	432	7.63
3346619	Drill Core	6.28	0.448	1.5	248.2	6.1	123	0.4	15.4	42.8	2234	8.58	4	0.6	0.7	339	<0.1	1.2	<0.1	434	7.60
3346620	Rock Pulp	0.13	0.650	330.1	4893.9	19.8	73	1.3	33.4	15.7	519	4.56	71	4.1	15.0	338	0.2	3.4	1.8	115	2.46
3346621	Drill Core	3.36	<0.005	5.3	17.0	4.3	30	<0.1	2.1	7.1	980	2.35	2	2.2	4.4	238	<0.1	1.6	<0.1	67	2.35
3346622	Drill Core	4.45	<0.005	3.8	9.0	3.6	23	<0.1	1.9	5.9	978	2.02	4	2.0	4.0	282	<0.1	1.6	<0.1	60	2.89
3346623	Drill Core	3.74	<0.005	4.0	16.4	5.4	32	<0.1	1.6	4.4	776	1.84	4	2.4	4.9	309	<0.1	1.6	<0.1	51	1.82
3346624	Drill Core	3.99	<0.005	3.4	21.0	4.5	29	<0.1	1.4	4.0	738	1.97	1	2.3	4.8	356	<0.1	1.3	<0.1	54	1.77
3346625	Drill Core	4.72	0.026	3.3	45.3	5.8	35	<0.1	1.7	6.5	920	2.43	5	2.0	4.0	334	<0.1	1.6	<0.1	77	2.33
3346626	Drill Core	4.46	0.012	0.6	560.1	6.2	122	0.7	15.5	45.1	2205	9.36	7	0.4	0.6	457	0.4	2.0	<0.1	534	8.21
3346627	Drill Core	5.40	0.008	0.3	428.4	5.4	86	0.5	13.6	48.4	1747	9.63	5	0.2	0.3	1166	0.1	2.3	<0.1	555	10.29
3346628	Drill Core	5.16	0.010	0.4	427.3	4.4	97	0.5	11.3	40.1	1749	8.59	6	0.2	0.3	667	<0.1	1.1	<0.1	445	8.63
3346629	Drill Core	4.31	0.013	1.1	511.1	5.1	96	0.6	13.5	49.5	2790	8.05	5	0.5	0.4	412	<0.1	1.2	0.1	399	10.92
3346630	Rock	1.37	<0.005	0.2	1.3	0.5	3	<0.1	0.8	0.3	151	0.11	2	0.2	<0.1	88	<0.1	<0.1	<0.1	<1	32.07
3346631	Drill Core	4.64	0.012	0.5	544.8	5.7	93	0.6	12.2	52.3	1768	9.10	4	0.2	0.3	857	0.2	1.4	<0.1	495	8.97
3346632	Drill Core	4.90	0.013	0.4	468.5	6.0	89	0.5	12.2	44.2	1655	8.94	3	0.1	0.2	805	0.1	1.5	<0.1	495	8.94
3346633	Drill Core	5.08	0.010	0.5	431.4	5.4	94	0.4	12.7	46.3	1630	9.54	4	0.2	0.2	1058	<0.1	1.6	<0.1	548	9.19
3346634	Drill Core	4.91	0.007	0.4	409.2	6.2	83	0.4	11.8	52.1	1703	10.16	4	0.1	0.3	1164	<0.1	2.5	<0.1	618	10.06

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346605	Core DUP	0.063	8.8	4	0.60	1377	0.220	7.11	2.003	6.25	1.2	71.4	19	0.9	11.1	9.6	0.7	<1	4	2.9	0.3
3346606	Drill Core	0.039	10.6	4	0.44	1261	0.180	7.32	1.934	6.65	1.1	80.9	20	0.9	11.6	9.7	0.7	2	3	3.0	0.3
3346607	Drill Core	0.043	10.4	4	0.37	1367	0.179	7.44	2.813	5.16	1.1	76.5	20	0.8	11.5	10.0	0.7	1	3	1.3	0.3
3346608	Drill Core	0.043	11.7	3	0.42	1459	0.175	7.43	2.920	4.24	0.8	69.5	22	0.7	12.1	9.3	0.7	<1	3	1.3	0.2
3346609	Drill Core	0.101	9.2	40	1.69	766	0.241	6.79	1.764	5.52	1.5	50.5	18	0.7	10.5	6.1	0.4	2	14	8.7	0.6
3346610	Rock	0.005	1.2	1	2.35	14	0.005	0.07	0.028	0.02	<0.1	1.6	1	0.1	2.4	0.1	<0.1	<1	<1	0.8	<0.1
3346611	Drill Core	0.145	5.7	4	2.75	198	0.441	7.73	0.832	5.39	1.3	10.7	13	0.6	13.2	2.8	0.1	2	17	27.9	2.0
3346612	Drill Core	0.160	5.7	5	3.25	539	0.528	8.39	1.956	1.59	0.4	13.0	14	0.5	15.0	2.6	0.2	<1	22	16.3	0.4
3346613	Drill Core	0.046	3.6	5	3.50	743	0.613	7.52	0.861	3.29	0.4	12.0	8	0.6	12.7	3.3	0.1	4	28	22.1	1.5
3346614	Drill Core	0.039	3.8	4	3.02	980	0.499	7.64	0.428	5.52	0.8	16.4	9	0.6	10.9	2.3	0.1	3	24	33.7	1.2
3346615	Drill Core	0.061	8.3	33	1.29	814	0.192	6.87	1.071	7.24	1.1	89.1	17	0.8	12.2	9.2	0.6	2	5	8.3	0.7
3346616	Drill Core	0.049	9.5	4	0.84	908	0.182	7.28	1.195	7.04	0.9	88.1	18	0.8	12.5	9.6	0.7	3	4	4.8	0.4
3346617	Drill Core	0.075	4.8	29	3.69	954	0.522	8.17	0.510	3.92	0.8	11.8	10	0.4	10.5	1.4	<0.1	<1	28	32.9	0.2
3346618	Drill Core	0.050	4.2	26	3.49	789	0.474	7.39	0.544	4.50	0.8	10.6	9	0.5	9.4	1.4	<0.1	4	28	40.8	0.9
3346619	Drill Core	0.036	4.3	12	3.72	390	0.445	7.60	0.999	3.70	2.9	19.0	9	0.5	11.3	1.7	0.1	2	27	24.6	0.6
3346620	Rock Pulp	0.109	29.4	65	1.35	562	0.499	7.06	1.925	3.17	3.0	74.6	64	3.3	22.8	18.1	1.3	3	12	29.6	0.7
3346621	Drill Core	0.050	9.8	4	0.77	895	0.195	7.30	2.011	5.36	1.3	83.4	20	1.0	12.1	10.6	0.8	<1	4	4.6	0.4
3346622	Drill Core	0.050	7.9	4	0.53	776	0.193	6.84	2.730	3.93	1.1	80.3	17	1.0	11.6	9.9	0.7	1	3	2.6	0.3
3346623	Drill Core	0.043	10.4	3	0.43	1425	0.192	7.21	2.688	4.55	0.9	83.8	21	0.9	12.4	11.2	0.8	<1	3	2.9	0.2
3346624	Drill Core	0.049	10.8	4	0.44	1595	0.207	7.80	2.751	5.02	0.8	76.6	22	0.9	12.4	10.6	0.8	<1	4	1.7	0.2
3346625	Drill Core	0.082	9.7	3	0.58	1542	0.262	7.83	2.392	6.23	1.2	68.2	21	0.9	13.3	10.6	0.7	2	4	2.4	0.4
3346626	Drill Core	0.057	3.9	9	3.66	618	0.585	7.47	0.935	3.47	0.7	13.7	9	0.6	12.3	1.8	0.1	<1	33	31.7	0.7
3346627	Drill Core	0.041	3.2	5	3.74	244	0.578	8.11	0.688	0.97	0.4	14.6	8	0.5	12.1	1.3	<0.1	<1	34	14.4	0.2
3346628	Drill Core	0.035	2.9	4	3.75	463	0.481	8.56	1.020	1.86	0.4	11.5	7	0.4	10.8	1.2	<0.1	<1	27	20.2	0.7
3346629	Drill Core	0.043	4.2	14	3.35	545	0.424	7.19	1.028	2.17	1.0	9.7	9	0.5	9.7	1.4	<0.1	<1	25	25.5	1.8
3346630	Rock	0.007	1.3	1	2.44	16	0.006	0.08	0.027	0.01	<0.1	1.6	1	<0.1	2.5	0.2	<0.1	<1	<1	1.4	<0.1
3346631	Drill Core	0.035	3.4	4	3.79	348	0.529	8.57	0.941	1.11	0.7	14.3	7	0.5	11.8	1.5	<0.1	<1	28	20.5	0.6
3346632	Drill Core	0.028	2.7	4	3.82	381	0.528	8.62	0.773	1.25	0.6	13.5	7	0.5	10.9	1.1	<0.1	<1	30	17.7	0.4
3346633	Drill Core	0.027	2.7	4	3.86	336	0.574	8.86	0.802	0.92	0.6	13.0	6	0.6	10.6	1.0	<0.1	<1	29	17.9	0.3
3346634	Drill Core	0.033	2.6	4	3.99	216	0.631	8.06	0.569	0.76	0.5	14.7	6	0.5	11.3	1.0	<0.1	<1	33	15.5	0.2

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346605	Core DUP	105.8	1.8	<0.05	<0.005	1	<0.5	0.6
3346606	Drill Core	120.1	2.0	<0.05	<0.005	<1	<0.5	0.6
3346607	Drill Core	93.9	2.1	<0.05	<0.005	<1	<0.5	<0.5
3346608	Drill Core	89.3	1.7	<0.05	<0.005	1	<0.5	<0.5
3346609	Drill Core	99.5	1.5	<0.05	<0.005	2	0.7	0.5
3346610	Rock	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346611	Drill Core	103.1	0.5	<0.05	<0.005	3	0.7	0.6
3346612	Drill Core	34.1	0.6	<0.05	<0.005	2	0.5	<0.5
3346613	Drill Core	85.7	0.5	0.05	<0.005	4	0.9	<0.5
3346614	Drill Core	145.0	0.5	0.05	<0.005	2	<0.5	0.8
3346615	Drill Core	134.8	2.4	<0.05	0.008	1	<0.5	0.7
3346616	Drill Core	130.7	2.4	<0.05	<0.005	2	<0.5	0.6
3346617	Drill Core	137.1	0.5	0.05	<0.005	<1	<0.5	0.9
3346618	Drill Core	177.6	0.5	<0.05	<0.005	1	1.3	1.2
3346619	Drill Core	115.9	0.8	0.06	0.008	<1	1.0	0.5
3346620	Rock Pulp	154.8	2.2	0.12	0.226	3	<0.5	0.9
3346621	Drill Core	99.7	2.4	<0.05	<0.005	<1	<0.5	<0.5
3346622	Drill Core	74.9	2.1	<0.05	<0.005	2	<0.5	<0.5
3346623	Drill Core	100.2	2.2	<0.05	<0.005	1	<0.5	<0.5
3346624	Drill Core	102.5	2.1	<0.05	<0.005	<1	<0.5	0.5
3346625	Drill Core	105.0	1.8	<0.05	<0.005	2	<0.5	0.5
3346626	Drill Core	128.6	0.6	0.06	0.007	1	0.6	0.7
3346627	Drill Core	30.4	0.6	0.07	<0.005	<1	2.1	<0.5
3346628	Drill Core	54.6	0.5	<0.05	<0.005	2	<0.5	<0.5
3346629	Drill Core	74.7	0.5	<0.05	0.007	2	<0.5	<0.5
3346630	Rock	0.2	<0.1	<0.05	<0.005	2	2.8	<0.5
3346631	Drill Core	37.6	0.7	0.09	<0.005	2	<0.5	<0.5
3346632	Drill Core	27.1	0.7	0.05	<0.005	1	0.8	<0.5
3346633	Drill Core	21.9	0.7	<0.05	<0.005	2	0.8	<0.5
3346634	Drill Core	25.5	0.7	<0.05	<0.005	<1	2.0	<0.5

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346635	Drill Core	4.69	0.014	2.5	433.3	5.5	127	0.6	13.1	56.2	2017	10.90	3	0.6	0.2	396	0.1	1.0	0.3	687	8.66
3346636	Drill Core	5.25	0.006	0.3	209.2	5.8	87	0.3	14.1	52.2	1703	10.39	5	0.2	0.3	1186	<0.1	1.6	<0.1	606	9.81
3346637	Drill Core	4.72	0.011	0.4	404.7	5.7	96	0.4	14.0	48.6	1603	9.23	3	0.1	0.2	1008	0.1	1.3	<0.1	522	9.15
3346638	Drill Core	5.01	0.011	0.3	428.9	4.5	105	0.4	13.9	52.8	1623	9.09	4	0.2	0.5	855	<0.1	1.1	<0.1	499	8.47
3346639	Drill Core	3.51	0.006	0.3	105.1	6.1	126	0.1	12.4	36.9	2157	7.73	6	1.4	0.3	447	0.1	0.6	0.3	483	6.97
3346640	Rock Pulp	0.11	0.285	11.3	2253.2	7.4	54	0.5	12.9	15.9	646	5.55	18	1.1	1.7	518	<0.1	0.9	0.2	225	2.72
3346641	Drill Core	4.17	0.005	0.5	67.1	4.3	85	<0.1	14.4	49.9	1587	9.86	3	0.2	0.4	680	<0.1	1.1	<0.1	548	8.78
3346642	Drill Core	5.02	0.011	0.5	110.8	5.4	83	0.2	15.8	47.3	1462	8.67	4	0.3	0.4	733	<0.1	1.2	<0.1	464	8.09
3346643	Drill Core	4.78	0.008	0.4	52.5	4.0	91	0.1	22.5	55.1	1875	11.41	4	0.6	0.4	522	<0.1	1.2	<0.1	653	9.05
3346644	Drill Core	4.83	<0.005	0.4	57.9	5.9	78	0.1	18.5	41.4	1412	8.98	3	0.2	0.4	1087	<0.1	1.5	<0.1	500	9.57
3346645	Core DUP		<0.005	0.5	55.4	5.7	79	<0.1	19.2	43.5	1428	8.97	6	0.2	0.3	1147	<0.1	1.3	<0.1	496	9.60
3346646	Drill Core	3.52	<0.005	0.3	82.8	8.1	77	0.1	15.2	43.4	1261	7.77	7	0.2	0.4	1366	<0.1	2.2	<0.1	414	9.46
3346647	Drill Core	3.76	0.006	0.5	115.5	6.4	92	0.2	18.1	47.4	1528	8.85	4	0.2	0.3	924	<0.1	1.8	<0.1	451	9.24
3346648	Drill Core	5.64	0.008	0.4	422.9	4.9	123	0.5	23.6	49.2	2082	9.35	4	0.3	0.3	722	<0.1	1.5	<0.1	486	8.38
3346649	Drill Core	5.47	0.012	0.7	684.9	7.2	113	0.8	21.7	47.6	1560	9.01	5	0.2	0.2	922	<0.1	1.6	<0.1	448	8.18
3346650	Rock	1.88	<0.005	<0.1	2.4	0.6	3	<0.1	<0.1	0.3	137	0.10	<1	0.2	<0.1	94	<0.1	<0.1	<0.1	1	31.65
3346651	Drill Core	2.69	0.006	22.2	52.8	6.3	99	<0.1	1.0	20.6	1372	5.07	3	1.2	2.2	531	<0.1	0.2	<0.1	143	3.76
3346652	Drill Core	5.11	0.008	27.6	349.6	5.5	72	0.4	16.7	46.5	1361	9.11	4	0.2	0.3	809	<0.1	0.8	0.1	481	8.02
3346653	Drill Core	2.52	0.010	0.4	268.2	7.1	115	0.3	15.3	39.5	1622	8.27	7	0.6	0.2	560	<0.1	0.8	0.1	435	8.09
3346654	Drill Core	4.43	0.010	0.5	544.0	7.0	80	0.5	15.2	49.8	1520	9.44	3	0.1	0.2	969	0.2	1.0	<0.1	472	8.72
3346655	Drill Core	3.49	0.007	0.4	667.0	9.8	94	0.8	14.3	48.6	1592	9.13	8	0.1	0.2	1555	0.1	1.8	<0.1	473	10.52
3346656	Drill Core	3.65	0.027	1.7	115.1	8.4	111	0.2	4.3	27.3	1526	6.17	6	1.5	1.8	375	<0.1	0.3	0.1	332	4.86
3346657	Drill Core	4.15	0.019	0.5	399.2	5.2	71	0.4	16.5	44.0	1188	7.39	4	<0.1	0.1	829	<0.1	1.1	<0.1	388	7.89
3346658	Drill Core	4.98	0.039	0.4	405.9	5.7	121	0.4	26.2	60.8	1434	11.81	5	0.2	0.2	990	<0.1	1.1	<0.1	620	8.16
3346659	Drill Core	5.07	0.018	0.3	169.3	6.4	83	0.2	20.5	42.3	1335	8.32	6	<0.1	0.1	1044	<0.1	1.5	<0.1	431	8.87
3346660	Rock Pulp	0.13	0.221	98.2	2641.1	22.5	83	0.5	62.9	15.4	547	4.32	23	5.0	18.3	317	0.2	2.5	0.8	120	2.54
3346661	Drill Core	4.70	0.022	1.2	368.7	56.4	142	0.6	20.2	42.1	1947	8.44	8	0.3	0.4	579	0.7	1.5	0.4	430	6.96
3346662	Drill Core	4.42	0.007	0.4	171.0	7.0	93	0.2	22.6	41.6	1615	8.65	4	0.2	0.4	659	<0.1	1.0	<0.1	491	6.90
3346663	Drill Core	4.66	0.007	0.4	66.9	7.7	76	<0.1	23.5	44.9	1588	9.06	4	<0.1	0.2	959	<0.1	1.4	<0.1	480	9.52
3346664	Drill Core	4.96	0.008	0.4	58.4	5.7	77	<0.1	24.8	40.4	1693	8.95	5	<0.1	0.1	697	<0.1	0.8	<0.1	468	9.08

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CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346635	Drill Core	0.019	2.8	6	4.10	274	0.665	5.95	1.294	1.52	1.2	13.3	7	0.7	11.5	2.2	<0.1	4	37	18.0	2.5
3346636	Drill Core	0.029	2.3	6	4.30	174	0.632	7.44	0.615	0.68	0.4	15.8	6	0.6	12.1	1.1	<0.1	<1	35	14.3	0.2
3346637	Drill Core	0.024	2.2	4	3.93	284	0.547	8.82	0.754	1.30	0.4	12.1	6	0.5	9.6	0.8	<0.1	<1	28	20.8	0.3
3346638	Drill Core	0.032	3.1	4	3.60	365	0.541	8.76	1.115	1.98	0.3	12.3	7	0.4	11.2	1.4	<0.1	<1	28	23.4	0.4
3346639	Drill Core	0.020	2.8	9	2.95	680	0.451	7.88	1.108	3.67	0.4	8.3	6	0.6	7.7	2.0	<0.1	6	23	42.4	1.3
3346640	Rock Pulp	0.116	8.9	23	1.19	1378	0.347	8.07	2.987	3.66	0.9	42.0	19	2.4	18.3	2.9	0.2	<1	9	14.3	0.3
3346641	Drill Core	0.033	3.1	10	3.62	343	0.633	8.21	1.080	1.35	0.3	10.4	7	0.4	10.9	1.3	<0.1	<1	32	18.1	0.5
3346642	Drill Core	0.032	2.8	8	3.16	439	0.535	8.56	1.100	1.66	0.6	9.5	6	0.5	9.5	1.2	<0.1	<1	26	23.6	0.9
3346643	Drill Core	0.031	2.8	12	4.10	274	0.683	6.63	1.143	0.98	0.5	13.0	7	0.8	12.3	1.9	<0.1	2	36	15.6	0.4
3346644	Drill Core	0.030	3.0	13	3.50	306	0.551	8.77	0.941	1.15	0.4	12.5	7	0.5	10.9	1.2	<0.1	<1	31	18.2	0.2
3346645	Core DUP	0.030	2.8	13	3.48	300	0.552	8.64	0.924	1.13	0.5	12.1	7	0.4	11.4	1.2	<0.1	2	29	18.6	0.2
3346646	Drill Core	0.042	3.0	10	2.79	264	0.491	9.36	1.242	0.81	0.4	10.3	6	0.4	8.6	1.2	<0.1	<1	23	17.3	0.2
3346647	Drill Core	0.030	2.8	4	3.70	223	0.530	8.33	0.985	0.90	0.4	11.5	7	0.5	9.8	1.1	<0.1	<1	29	17.9	0.2
3346648	Drill Core	0.024	2.5	4	3.84	328	0.557	8.32	0.960	2.26	0.7	14.5	6	0.5	9.9	1.0	<0.1	1	30	34.3	0.5
3346649	Drill Core	0.017	2.3	4	3.65	376	0.508	8.14	1.198	2.26	1.0	13.0	5	0.4	9.2	0.9	<0.1	<1	28	25.4	0.9
3346650	Rock	0.005	1.3	1	2.20	14	0.006	0.06	0.022	0.01	<0.1	1.5	1	0.1	2.2	<0.1	<0.1	<1	<1	1.1	<0.1
3346651	Drill Core	0.227	9.9	2	1.44	1605	0.431	7.86	2.578	5.37	0.9	42.5	23	0.9	18.6	6.5	0.4	2	7	28.8	0.5
3346652	Drill Core	0.024	2.5	4	3.76	341	0.526	8.41	0.947	1.91	0.5	10.6	6	0.4	9.6	0.9	<0.1	<1	28	29.3	0.5
3346653	Drill Core	0.015	2.1	3	3.62	340	0.469	7.99	1.421	3.06	0.6	8.5	5	0.6	8.4	1.2	<0.1	3	26	42.1	1.8
3346654	Drill Core	0.016	2.1	4	3.97	285	0.556	8.69	0.737	1.48	0.5	12.2	5	0.5	9.5	0.8	<0.1	<1	29	21.2	0.2
3346655	Drill Core	0.016	2.3	3	3.74	236	0.513	8.61	0.563	1.14	0.7	11.4	5	0.4	10.1	0.9	<0.1	1	28	20.8	0.2
3346656	Drill Core	0.166	10.0	2	2.17	585	0.423	8.30	2.223	5.15	1.1	40.3	21	0.8	16.2	5.0	0.3	2	13	32.9	1.4
3346657	Drill Core	0.012	1.6	4	3.22	245	0.426	7.38	0.602	1.56	0.5	8.5	4	0.3	6.7	0.5	<0.1	<1	23	22.5	0.3
3346658	Drill Core	0.013	2.0	6	3.51	269	0.624	8.32	0.865	1.68	0.5	8.5	4	0.5	7.1	0.9	<0.1	<1	26	28.5	0.4
3346659	Drill Core	0.012	1.7	6	3.81	318	0.445	8.52	0.628	1.67	0.5	9.8	4	0.4	7.0	0.6	<0.1	<1	25	27.2	0.6
3346660	Rock Pulp	0.095	30.5	84	1.45	1019	0.465	7.18	1.980	3.29	4.6	75.3	67	3.7	24.0	17.6	1.4	3	12	31.3	0.3
3346661	Drill Core	0.054	2.8	8	3.73	287	0.468	7.51	1.462	3.31	0.8	10.5	6	0.4	8.4	1.2	<0.1	1	31	40.7	2.8
3346662	Drill Core	0.051	2.9	4	3.82	493	0.522	8.18	1.200	3.07	0.9	14.3	7	0.5	9.3	1.2	<0.1	<1	31	34.9	0.5
3346663	Drill Core	0.013	1.9	6	4.25	257	0.504	8.65	0.451	1.44	0.6	11.4	4	0.4	8.0	0.6	<0.1	<1	32	28.0	0.3
3346664	Drill Core	0.011	1.8	8	4.12	340	0.484	8.82	0.500	1.98	0.7	10.8	5	0.4	8.3	0.5	<0.1	1	33	35.0	0.4

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346635	Drill Core	46.5	0.6	<0.05	0.007	3	<0.5	<0.5
3346636	Drill Core	22.3	0.7	0.07	<0.005	1	1.9	<0.5
3346637	Drill Core	29.3	0.5	0.11	<0.005	<1	<0.5	<0.5
3346638	Drill Core	64.6	0.6	0.07	<0.005	<1	<0.5	<0.5
3346639	Drill Core	98.6	0.5	<0.05	<0.005	<1	<0.5	0.7
3346640	Rock Pulp	70.8	1.4	0.09	0.037	<1	<0.5	<0.5
3346641	Drill Core	35.2	0.5	<0.05	<0.005	<1	0.5	<0.5
3346642	Drill Core	32.1	0.6	<0.05	<0.005	<1	1.0	<0.5
3346643	Drill Core	32.4	0.6	0.05	<0.005	<1	0.8	<0.5
3346644	Drill Core	36.1	0.6	0.05	<0.005	<1	0.8	<0.5
3346645	Core DUP	34.5	0.5	<0.05	<0.005	<1	1.2	<0.5
3346646	Drill Core	16.5	0.5	<0.05	<0.005	<1	<0.5	<0.5
3346647	Drill Core	29.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346648	Drill Core	74.9	0.8	<0.05	<0.005	<1	0.6	<0.5
3346649	Drill Core	75.2	0.6	0.07	<0.005	<1	<0.5	<0.5
3346650	Rock	0.2	<0.1	<0.05	<0.005	<1	1.1	<0.5
3346651	Drill Core	86.7	1.3	<0.05	0.034	<1	<0.5	0.5
3346652	Drill Core	56.5	0.5	0.09	0.034	<1	<0.5	<0.5
3346653	Drill Core	129.3	0.5	<0.05	<0.005	<1	<0.5	0.7
3346654	Drill Core	38.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346655	Drill Core	34.4	0.7	0.09	<0.005	<1	2.5	<0.5
3346656	Drill Core	111.4	0.9	0.06	<0.005	1	<0.5	<0.5
3346657	Drill Core	45.0	0.4	0.07	<0.005	<1	0.9	<0.5
3346658	Drill Core	48.7	0.4	0.08	<0.005	<1	<0.5	<0.5
3346659	Drill Core	29.2	0.5	<0.05	<0.005	<1	0.7	<0.5
3346660	Rock Pulp	171.8	2.4	0.08	<0.005	1	0.6	0.9
3346661	Drill Core	127.3	0.4	0.06	<0.005	1	2.4	0.7
3346662	Drill Core	76.5	0.7	<0.05	<0.005	<1	1.0	<0.5
3346663	Drill Core	41.2	0.6	<0.05	<0.005	<1	<0.5	<0.5
3346664	Drill Core	61.2	0.6	<0.05	<0.005	<1	2.2	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346665	Drill Core	5.12	0.019	0.1	184.7	5.6	78	0.2	24.8	38.4	1533	8.62	5	<0.1	<0.1	928	<0.1	1.4	<0.1	451	10.54
3346666	Drill Core	5.33	0.021	<0.1	207.8	4.8	77	0.3	21.8	48.0	1447	8.85	4	<0.1	<0.1	917	<0.1	1.1	<0.1	472	9.80
3346667	Drill Core	4.89	0.014	0.2	265.0	3.7	78	0.3	20.8	47.3	1577	8.60	4	0.1	0.2	695	<0.1	1.0	<0.1	439	9.86
3346668	Drill Core	4.99	0.015	0.1	475.6	3.0	83	0.5	19.4	52.2	1430	9.49	5	<0.1	<0.1	896	<0.1	0.8	<0.1	522	9.93
3346669	Drill Core	5.85	0.015	0.2	577.2	3.0	84	0.5	18.6	52.8	1418	9.64	2	<0.1	<0.1	940	<0.1	0.9	<0.1	530	10.22
3346670	Rock	1.24	<0.005	<0.1	2.0	0.8	3	<0.1	0.2	0.3	139	0.11	<1	0.1	<0.1	81	<0.1	<0.1	<0.1	2	31.01
3346671	Drill Core	5.96	0.019	0.2	301.9	3.3	77	0.3	18.8	47.1	1325	8.99	3	<0.1	0.3	976	<0.1	1.0	<0.1	487	10.26
3346672	Drill Core	5.10	0.010	0.3	112.6	3.0	93	0.1	19.5	50.8	1616	8.64	3	0.1	<0.1	538	<0.1	0.6	<0.1	467	9.66

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346665	Drill Core	0.008	1.3	9	4.40	172	0.446	8.22	0.483	0.65	0.5	10.4	4	0.4	8.0	0.3	<0.1	<1	31	18.8	<0.1
3346666	Drill Core	0.007	1.4	8	4.39	403	0.459	8.89	0.554	1.18	0.4	10.0	4	0.4	8.7	0.3	<0.1	<1	34	22.9	0.1
3346667	Drill Core	0.022	2.4	22	4.16	319	0.474	8.17	0.800	1.11	0.5	24.6	6	0.4	9.3	0.9	<0.1	<1	32	24.5	0.2
3346668	Drill Core	0.007	1.4	7	4.33	195	0.487	8.84	0.528	1.10	0.3	11.2	4	0.4	9.0	0.3	<0.1	<1	34	25.6	0.2
3346669	Drill Core	0.007	1.4	7	4.39	143	0.500	8.60	0.511	0.99	0.2	10.5	4	0.4	8.4	0.3	<0.1	<1	34	24.2	0.2
3346670	Rock	0.006	1.1	<1	2.72	13	0.006	0.08	0.023	0.01	<0.1	1.5	<1	<0.1	2.2	0.1	<0.1	<1	<1	1.5	<0.1
3346671	Drill Core	0.014	2.4	7	4.22	139	0.480	8.81	0.763	0.83	0.3	12.1	6	0.4	10.0	0.7	<0.1	<1	34	20.9	<0.1
3346672	Drill Core	0.007	1.4	6	4.16	263	0.452	7.97	0.864	1.91	0.7	8.1	4	0.4	8.6	0.3	<0.1	2	33	35.8	0.7

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3346665	Drill Core	21.6	0.5	<0.05	<0.005	<1	0.7	<0.5
3346666	Drill Core	31.6	0.5	0.07	<0.005	<1	1.7	<0.5
3346667	Drill Core	39.0	0.7	0.06	<0.005	<1	0.9	<0.5
3346668	Drill Core	43.5	0.6	0.06	<0.005	<1	<0.5	<0.5
3346669	Drill Core	40.5	0.6	<0.05	<0.005	<1	0.6	<0.5
3346670	Rock	0.4	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346671	Drill Core	30.4	1.9	0.06	<0.005	<1	<0.5	<0.5
3346672	Drill Core	75.3	0.9	<0.05	<0.005	<1	2.1	<0.5

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Client: **Thompson Creek Metals**
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Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3346551	Drill Core	5.26	0.044	0.6	357.1	11.3	107	0.5	13.5	35.8	2381	7.77	13	0.3	0.5	315	0.2	1.2	0.4	363	6.85
REP 3346551	QC		0.041																		
3346553	Drill Core	5.10	0.032	0.5	367.7	8.3	115	0.4	13.2	43.2	2016	8.68	5	0.4	0.5	511	0.3	1.5	<0.1	433	7.08
REP 3346553	QC		0.031																		
3346570	Rock	1.38	<0.005	<0.1	0.6	0.6	3	<0.1	<0.1	0.2	130	0.09	<1	0.1	<0.1	92	<0.1	<0.1	<0.1	1	32.63
REP 3346570	QC			<0.1	0.7	0.5	2	<0.1	0.6	0.3	119	0.09	<1	0.1	<0.1	83	<0.1	<0.1	<0.1	1	32.31
3346590	Rock	1.35	<0.005	<0.1	1.4	0.4	3	<0.1	0.2	0.3	131	0.09	<1	<0.1	<0.1	85	<0.1	<0.1	<0.1	1	31.99
REP 3346590	QC			<0.1	0.9	0.4	2	<0.1	<0.1	0.7	140	0.09	2	<0.1	<0.1	75	<0.1	<0.1	<0.1	1	31.75
3346605	Core DUP		0.010	4.4	15.0	6.7	42	<0.1	1.9	6.2	845	2.20	3	2.0	3.9	316	<0.1	1.3	<0.1	70	2.32
REP 3346605	QC			4.6	16.3	7.2	45	<0.1	1.5	6.7	881	2.29	3	2.2	4.1	334	<0.1	1.4	<0.1	74	2.40
3346624	Drill Core	3.99	<0.005	3.4	21.0	4.5	29	<0.1	1.4	4.0	738	1.97	1	2.3	4.8	356	<0.1	1.3	<0.1	54	1.77
REP 3346624	QC		<0.005																		
3346626	Drill Core	4.46	0.012	0.6	560.1	6.2	122	0.7	15.5	45.1	2205	9.36	7	0.4	0.6	457	0.4	2.0	<0.1	534	8.21
REP 3346626	QC		0.013																		
3346641	Drill Core	4.17	0.005	0.5	67.1	4.3	85	<0.1	14.4	49.9	1587	9.86	3	0.2	0.4	680	<0.1	1.1	<0.1	548	8.78
REP 3346641	QC			0.4	73.6	4.4	88	0.1	15.4	47.8	1611	10.08	3	0.3	0.4	704	<0.1	1.2	<0.1	558	8.87
Core Reject Duplicates																					
3346562	Drill Core	4.85	0.039	0.4	40.9	6.5	121	<0.1	13.0	29.9	2499	9.36	3	0.2	0.2	258	0.4	1.5	<0.1	441	9.22
DUP 3346562	QC		0.041	0.5	41.8	5.9	118	<0.1	13.1	29.5	2505	9.28	2	0.2	0.2	257	0.4	1.5	<0.1	443	9.20
3346596	Drill Core	4.85	<0.005	0.9	57.6	2.7	83	<0.1	197.9	49.9	1529	6.87	5	1.1	2.2	872	<0.1	1.1	<0.1	235	6.52
DUP 3346596	QC		0.006	1.1	54.7	2.6	74	<0.1	193.0	49.5	1509	6.77	5	1.1	2.0	858	<0.1	1.0	<0.1	232	6.43
3346664	Drill Core	4.96	0.008	0.4	58.4	5.7	77	<0.1	24.8	40.4	1693	8.95	5	<0.1	0.1	697	<0.1	0.8	<0.1	468	9.08
DUP 3346664	QC		0.008	0.4	60.7	5.4	77	<0.1	25.0	42.5	1657	8.68	4	<0.1	0.1	682	<0.1	0.8	<0.1	458	8.88
Reference Materials																					
STD OREAS25A-4A	Standard			2.2	33.3	23.7	44	<0.1	45.9	7.4	475	6.33	8	2.7	15.1	47	<0.1	0.6	0.3	154	0.28
STD OREAS25A-4A	Standard			2.4	30.3	23.4	40	<0.1	46.2	7.5	477	6.31	9	2.5	14.4	48	<0.1	0.7	0.4	154	0.27
STD OREAS25A-4A	Standard			2.4	31.8	23.3	46	0.1	49.4	7.9	488	6.58	10	2.6	14.7	46	<0.1	0.6	0.4	157	0.29
STD OREAS25A-4A	Standard			2.5	31.2	24.5	48	<0.1	45.6	8.3	488	6.56	8	2.8	13.9	47	0.1	0.5	0.4	163	0.25

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3346551	Drill Core	0.075	4.2	10	3.05	464	0.430	6.97	1.086	3.73	0.7	8.4	9	0.6	10.4	1.7	0.1	1	25	35.7	2.1
REP 3346551	QC																				
3346553	Drill Core	0.073	4.2	9	3.55	626	0.497	7.94	1.137	3.03	0.6	13.7	9	0.5	10.9	1.8	0.1	2	28	33.3	0.7
REP 3346553	QC																				
3346570	Rock	0.007	1.3	<1	1.94	14	0.006	0.06	0.017	0.01	<0.1	1.6	1	0.1	2.3	0.1	<0.1	<1	<1	0.7	<0.1
REP 3346570	QC	0.007	1.2	1	1.94	14	0.005	0.06	0.016	0.01	<0.1	1.3	<1	<0.1	2.1	0.1	<0.1	<1	<1	0.8	<0.1
3346590	Rock	0.006	1.2	2	2.43	13	0.006	0.06	0.023	0.02	0.1	1.4	1	0.1	2.2	0.1	<0.1	<1	<1	0.7	<0.1
REP 3346590	QC	0.006	1.1	1	2.42	10	0.005	0.07	0.027	0.01	<0.1	1.3	<1	<0.1	1.9	<0.1	<0.1	<1	<1	0.8	<0.1
3346605	Core DUP	0.063	8.8	4	0.60	1377	0.220	7.11	2.003	6.25	1.2	71.4	19	0.9	11.1	9.6	0.7	<1	4	2.9	0.3
REP 3346605	QC	0.066	9.0	4	0.63	1319	0.224	7.31	2.080	6.30	1.1	74.0	20	0.9	12.2	10.0	0.7	1	4	3.0	0.4
3346624	Drill Core	0.049	10.8	4	0.44	1595	0.207	7.80	2.751	5.02	0.8	76.6	22	0.9	12.4	10.6	0.8	<1	4	1.7	0.2
REP 3346624	QC																				
3346626	Drill Core	0.057	3.9	9	3.66	618	0.585	7.47	0.935	3.47	0.7	13.7	9	0.6	12.3	1.8	0.1	<1	33	31.7	0.7
REP 3346626	QC																				
3346641	Drill Core	0.033	3.1	10	3.62	343	0.633	8.21	1.080	1.35	0.3	10.4	7	0.4	10.9	1.3	<0.1	<1	32	18.1	0.5
REP 3346641	QC	0.034	3.0	10	3.71	357	0.641	8.38	1.083	1.42	0.3	11.0	7	0.5	11.5	1.4	<0.1	<1	31	19.3	0.5
Core Reject Duplicates																					
3346562	Drill Core	0.085	3.4	3	2.88	385	0.450	6.20	0.761	2.52	1.9	3.8	7	0.4	8.4	0.8	<0.1	1	22	21.7	0.4
DUP 3346562	QC	0.083	3.5	3	2.87	382	0.443	6.23	0.757	2.39	1.9	3.5	7	0.4	8.3	0.8	<0.1	1	22	20.8	0.4
3346596	Drill Core	0.214	10.2	372	6.55	1086	0.351	6.14	0.681	3.39	1.0	36.2	19	0.6	11.5	2.6	0.1	<1	24	34.7	<0.1
DUP 3346596	QC	0.208	9.9	363	6.53	1046	0.349	6.06	0.662	3.41	0.9	29.1	18	0.4	11.0	2.4	0.1	2	23	31.4	<0.1
3346664	Drill Core	0.011	1.8	8	4.12	340	0.484	8.82	0.500	1.98	0.7	10.8	5	0.4	8.3	0.5	<0.1	1	33	35.0	0.4
DUP 3346664	QC	0.011	1.6	7	3.97	319	0.482	8.37	0.488	1.93	0.7	10.4	4	0.3	7.6	0.5	<0.1	<1	31	33.1	0.4
Reference Materials																					
STD OREAS25A-4A	Standard	0.042	20.6	108	0.29	143	0.881	8.65	0.100	0.42	1.8	151.2	47	4.0	10.3	18.5	1.4	<1	12	33.2	<0.1
STD OREAS25A-4A	Standard	0.047	20.4	112	0.30	149	0.877	8.42	0.109	0.49	1.7	141.3	48	3.9	10.3	18.1	1.4	2	12	37.4	<0.1
STD OREAS25A-4A	Standard	0.049	22.8	110	0.33	145	0.915	9.16	0.137	0.49	1.8	151.6	49	3.5	9.8	18.4	1.4	<1	13	35.9	<0.1
STD OREAS25A-4A	Standard	0.042	17.6	120	0.28	147	0.936	8.36	0.106	0.45	1.7	145.9	40	4.2	9.7	18.3	1.4	<1	11	33.2	<0.1

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3346551	Drill Core	113.5	0.5	0.06	<0.005	2	<0.5	0.7
REP 3346551	QC							
3346553	Drill Core	85.6	0.6	<0.05	<0.005	2	<0.5	<0.5
REP 3346553	QC							
3346570	Rock	0.2	<0.1	<0.05	<0.005	<1	3.0	<0.5
REP 3346570	QC	0.3	<0.1	<0.05	<0.005	<1	5.8	<0.5
3346590	Rock	0.4	<0.1	<0.05	<0.005	<1	0.6	<0.5
REP 3346590	QC	0.4	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3346605	Core DUP	105.8	1.8	<0.05	<0.005	1	<0.5	0.6
REP 3346605	QC	113.8	2.0	<0.05	<0.005	<1	<0.5	0.6
3346624	Drill Core	102.5	2.1	<0.05	<0.005	<1	<0.5	0.5
REP 3346624	QC							
3346626	Drill Core	128.6	0.6	0.06	0.007	1	0.6	0.7
REP 3346626	QC							
3346641	Drill Core	35.2	0.5	<0.05	<0.005	<1	0.5	<0.5
REP 3346641	QC	37.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
Core Reject Duplicates								
3346562	Drill Core	84.9	0.3	<0.05	<0.005	<1	<0.5	<0.5
DUP 3346562	QC	81.7	0.3	<0.05	<0.005	<1	<0.5	<0.5
3346596	Drill Core	113.7	1.1	<0.05	<0.005	<1	1.2	0.6
DUP 3346596	QC	112.2	1.0	<0.05	<0.005	<1	2.0	0.5
3346664	Drill Core	61.2	0.6	<0.05	<0.005	<1	2.2	<0.5
DUP 3346664	QC	46.6	0.6	<0.05	<0.005	<1	1.0	<0.5
Reference Materials								
STD OREAS25A-4A	Standard	57.3	4.1	<0.05	<0.005	<1	<0.5	<0.5
STD OREAS25A-4A	Standard	56.5	3.8	0.10	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	60.7	4.2	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	50.2	3.9	0.07	<0.005	1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.4	31.2	22.9	48	0.1	45.8	7.9	485	6.52	9	2.6	14.2	46	<0.1	0.6	0.3	154	0.28
STD OREAS25A-4A	Standard			2.1	31.8	24.4	42	<0.1	47.0	7.9	494	6.64	9	2.6	14.5	47	<0.1	0.6	0.3	163	0.29
STD OREAS45H	Standard			1.4	791.8	13.2	44	0.1	453.5	94.2	411	21.51	18	1.8	8.1	31	<0.1	0.7	0.2	273	0.14
STD OREAS45E	Standard			2.4	783.2	19.6	49	0.3	479.2	64.2	560	25.80	17	2.5	14.0	18	<0.1	1.1	0.4	323	0.06
STD OREAS45E	Standard			2.3	765.5	17.1	45	0.3	470.9	58.5	569	24.72	16	2.2	11.6	15	<0.1	0.9	0.3	330	0.06
STD OREAS45H	Standard			1.5	743.2	12.3	41	0.1	429.1	93.7	385	20.36	17	1.7	7.6	29	<0.1	0.5	0.2	260	0.13
STD OREAS45E	Standard			2.4	773.0	16.7	44	0.3	458.0	58.8	550	24.73	15	2.2	11.7	15	<0.1	0.9	0.3	319	0.06
STD OREAS45E	Standard			2.2	786.6	17.5	47	0.3	474.4	60.0	563	24.52	16	2.3	12.5	16	<0.1	1.0	0.2	330	0.07
STD OXB130	Standard		0.125																		
STD OXB130	Standard		0.120																		
STD OXG141	Standard		0.942																		
STD OXG141	Standard		0.948																		
STD OXN155	Standard		7.750																		
STD OXN155	Standard		7.778																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.005																		
BLK	Blank		0.005																		
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	<0.1	<0.1	1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

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Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.048	21.0	111	0.33	145	0.902	8.79	0.135	0.48	1.9	153.3	46	3.6	9.5	19.2	1.4	<1	13	37.5	<0.1
STD OREAS25A-4A	Standard	0.048	20.9	119	0.34	156	0.887	9.25	0.134	0.53	2.0	160.7	50	4.3	10.1	20.2	1.4	<1	13	42.1	<0.1
STD OREAS45H	Standard	0.024	13.8	651	0.25	358	0.924	8.24	0.084	0.21	1.0	139.0	28	2.1	11.2	15.2	1.1	1	59	14.8	<0.1
STD OREAS45E	Standard	0.035	11.8	1025	0.16	276	0.548	6.75	0.055	0.35	1.1	97.3	27	1.4	8.9	6.9	0.6	<1	94	8.3	<0.1
STD OREAS45E	Standard	0.033	10.9	1025	0.16	251	0.539	6.77	0.061	0.34	1.0	94.8	23	1.2	7.3	5.8	0.5	<1	91	5.9	<0.1
STD OREAS45H	Standard	0.022	13.3	649	0.22	333	0.871	7.80	0.075	0.19	0.8	124.3	24	1.8	10.7	13.6	0.9	1	52	12.5	<0.1
STD OREAS45E	Standard	0.032	10.6	994	0.16	252	0.517	6.65	0.062	0.33	1.0	102.9	24	1.2	7.4	6.1	0.5	<1	91	6.4	<0.1
STD OREAS45E	Standard	0.034	10.6	1041	0.16	256	0.523	6.96	0.054	0.35	0.9	99.3	24	1.4	7.8	6.7	0.5	<1	94	7.2	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	3	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

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QUALITY CONTROL REPORT VAN20001256.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	58.7	4.2	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	61.6	4.2	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	24.9	4.0	0.12	<0.005	<1	<0.5	<0.5
STD OREAS45E	Standard	22.5	3.0	0.13	<0.005	4	<0.5	<0.5
STD OREAS45E	Standard	20.4	2.9	0.09	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	22.0	3.3	0.10	<0.005	1	<0.5	<0.5
STD OREAS45E	Standard	20.9	3.0	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	23.2	2.9	0.12	<0.005	3	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Prep Wash																					
ROCK-VAN	Prep Blank		0.006	1.1	7.1	2.3	29	<0.1	0.7	3.4	556	1.89	3	1.1	2.5	185	<0.1	0.1	<0.1	30	1.51
ROCK-VAN	Prep Blank		0.005	1.1	7.5	2.3	29	<0.1	0.6	3.4	543	1.87	3	1.1	2.6	184	<0.1	0.1	<0.1	29	1.47

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QUALITY CONTROL REPORT VAN20001256.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
Prep Wash																					
ROCK-VAN	Prep Blank	0.036	11.7	5	0.44	718	0.185	6.76	3.434	1.48	0.3	46.2	24	0.7	13.4	5.2	0.4	<1	6	2.4	<0.1
ROCK-VAN	Prep Blank	0.036	12.4	5	0.44	725	0.186	6.79	3.475	1.52	0.3	45.1	24	0.6	13.6	5.2	0.4	<1	6	2.3	<0.1

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001256.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
Prep Wash								
ROCK-VAN	Prep Blank	26.6	1.6	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	27.8	1.6	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 02, 2020
Analysis Start:	July 09, 2020
Report Date:	July 15, 2020
Page:	1 of 8

CERTIFICATE OF ANALYSIS VAN20001258.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_10
P.O. Number	M22165
Number of Samples:	196

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	181	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	5	Split samples by riffle splitter			VAN
PUL85	5	Pulverize to 85% passing 200 mesh			VAN
SLBHP	10	Sort, label and box pulps			VAN
FA430	196	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	196	Environmental disposal charge-Fire assay lead waste			VAN
MA200	196	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
MA404	2	4 Acid Digest AAS Finish for Cu VAN	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

JEFFREY CANNON
Geochemistry Department Supervisor

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486308	Drill Core	2.94	0.017	1.5	84.9	15.7	127	0.3	4.8	13.4	1166	4.94	6	1.7	4.8	551	0.4	1.0	<0.1	109	1.46
3486309	Drill Core	3.27	0.023	3.4	95.5	24.8	122	0.4	4.2	12.5	1280	4.77	6	1.9	5.2	387	0.6	0.9	<0.1	105	0.91
3486310	Rock	1.26	<0.005	<0.1	1.1	1.0	3	<0.1	<0.1	0.3	126	0.12	1	0.1	<0.1	80	<0.1	0.1	<0.1	1	33.97
3486311	Drill Core	3.01	0.026	3.5	100.3	19.0	126	0.3	4.4	13.3	899	5.18	6	1.6	4.2	376	0.4	0.7	<0.1	115	0.93
3486312	Drill Core	2.10	0.039	2.9	73.7	18.5	133	0.3	5.1	14.1	839	5.25	8	1.6	4.8	369	0.5	0.7	0.3	122	0.93
3486313	Drill Core	1.64	0.020	2.0	90.5	12.5	134	0.3	4.7	14.3	905	5.45	5	1.5	4.3	330	0.3	0.5	<0.1	108	0.81
3486314	Drill Core	1.96	0.064	40.8	85.7	54.6	129	0.6	4.5	13.0	792	4.97	15	3.2	5.1	383	0.6	1.0	1.8	145	0.66
3486315	Core DUP		0.061	40.4	84.8	50.6	129	0.6	4.8	12.6	772	4.77	15	3.0	5.1	366	0.5	0.9	1.7	137	0.65
3486316	Drill Core	2.28	0.039	10.2	88.9	33.5	111	0.4	3.7	12.2	482	4.49	15	2.5	5.4	293	0.3	0.8	0.5	121	0.55
3486317	Drill Core	3.48	0.012	2.1	82.6	16.3	113	0.2	4.8	12.7	889	5.05	3	1.5	4.2	288	0.4	0.7	<0.1	105	0.74
3486318	Drill Core	4.33	0.012	5.3	91.8	18.8	115	0.2	4.9	14.4	1167	4.94	3	1.8	4.2	294	0.5	0.9	<0.1	110	2.12
3486319	Drill Core	3.84	0.043	50.4	107.2	63.3	120	0.4	4.6	12.7	470	4.59	4	2.5	4.5	231	1.9	1.4	0.6	116	1.13
3486320	Rock Pulp	0.13	0.220	97.9	2763.8	22.9	87	0.4	64.3	16.2	572	4.42	20	5.4	17.5	323	0.1	2.2	0.8	128	2.66
3486321	Drill Core	4.72	0.080	14.3	80.6	39.4	116	0.2	4.7	14.2	720	4.72	5	1.6	3.1	170	1.0	1.1	0.2	119	1.47
3486322	Drill Core	4.04	0.058	5.4	40.8	19.1	69	0.2	1.7	8.6	663	3.66	2	2.1	6.6	192	0.3	0.5	<0.1	49	1.35
3486323	Drill Core	2.60	0.010	3.7	125.0	20.9	130	0.2	3.9	12.6	837	4.68	3	1.9	4.4	202	0.2	0.5	<0.1	94	1.03
3486324	Drill Core	3.84	0.009	1.8	96.6	14.8	97	0.1	4.9	14.0	999	4.76	2	1.5	3.7	274	0.2	0.6	<0.1	111	0.83
3486325	Drill Core	4.29	0.010	2.0	82.2	18.8	117	0.1	5.7	14.9	1134	4.98	2	1.5	4.0	328	0.2	0.6	<0.1	122	0.86
3486326	Drill Core	4.50	0.008	2.5	56.3	12.8	94	<0.1	3.9	12.9	1067	4.52	3	1.9	5.5	315	<0.1	0.7	<0.1	105	1.61
3486327	Drill Core	3.79	0.009	2.6	101.6	16.9	104	0.2	5.1	16.4	1102	4.88	4	1.5	3.8	357	<0.1	0.7	<0.1	134	1.47
3486328	Drill Core	3.57	0.064	9.5	87.3	20.1	105	0.1	4.8	14.3	1211	4.61	2	1.2	3.0	331	0.1	0.7	<0.1	115	2.95
3486329	Drill Core	2.25	0.008	1.7	107.7	11.7	103	0.1	5.0	15.0	1245	4.79	4	1.3	3.2	444	<0.1	0.7	<0.1	120	2.54
3486330	Rock	1.31	<0.005	<0.1	1.0	0.7	3	<0.1	0.7	0.4	147	0.10	1	0.1	<0.1	86	<0.1	<0.1	<0.1	1	35.56
3486331	Drill Core	4.69	0.010	4.8	112.7	12.5	112	0.1	5.7	15.9	1240	4.77	6	1.4	2.8	547	<0.1	1.2	<0.1	119	2.38
3486332	Drill Core	4.92	<0.005	21.2	166.7	31.1	115	0.2	4.9	16.3	1134	4.43	5	1.7	3.3	442	0.4	0.8	0.4	141	2.58
3486333	Drill Core	4.57	<0.005	4.2	107.4	16.1	97	0.1	5.1	14.4	1200	4.60	4	1.4	3.2	537	0.2	1.1	<0.1	115	2.93
3486334	Drill Core	4.78	<0.005	2.9	88.6	16.0	109	<0.1	4.5	14.3	1204	4.63	4	1.4	3.7	531	<0.1	1.0	<0.1	116	2.77
3486335	Drill Core	4.31	<0.005	14.0	148.0	20.4	112	0.2	4.6	16.2	1185	4.58	4	1.6	4.1	415	0.1	0.7	0.2	112	2.46
3486336	Drill Core	2.90	<0.005	3.8	114.5	12.5	97	0.1	5.0	14.2	1200	4.68	3	1.5	3.2	495	0.3	0.9	<0.1	116	2.90
3486337	Drill Core	4.53	0.010	4.6	115.2	10.9	87	0.1	4.6	16.8	1111	4.72	4	1.4	2.7	909	<0.1	1.6	<0.1	147	4.04

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486308	Drill Core	0.192	14.2	7	1.00	1471	0.355	9.46	3.201	4.91	1.1	12.1	28	1.4	19.1	14.1	0.8	2	8	31.4	<0.1
3486309	Drill Core	0.188	14.5	6	0.96	1455	0.331	9.42	3.140	5.97	0.9	9.0	29	1.2	19.6	14.3	0.8	3	8	35.1	<0.1
3486310	Rock	0.007	1.3	<1	2.85	14	0.006	0.07	0.052	0.04	<0.1	1.1	1	<0.1	2.2	<0.1	<0.1	<1	<1	1.7	<0.1
3486311	Drill Core	0.188	13.1	6	1.04	1414	0.331	9.42	2.815	6.40	0.9	12.8	26	1.2	19.0	13.6	0.7	3	9	38.7	<0.1
3486312	Drill Core	0.195	13.0	7	1.10	1484	0.364	9.59	3.125	6.12	0.9	16.7	26	1.2	19.1	16.8	0.9	2	8	38.4	<0.1
3486313	Drill Core	0.187	13.7	6	1.06	1388	0.311	9.66	3.375	5.81	0.7	11.7	27	1.2	18.2	11.5	0.7	3	8	34.4	<0.1
3486314	Drill Core	0.181	13.6	6	1.15	1652	0.257	9.23	2.475	7.49	1.1	15.3	27	0.9	18.9	11.4	0.7	7	8	46.0	<0.1
3486315	Core DUP	0.181	13.3	6	1.12	1527	0.247	9.13	2.379	7.31	1.2	15.6	26	0.9	18.2	10.8	0.6	6	8	44.8	<0.1
3486316	Drill Core	0.172	14.7	6	1.05	1506	0.214	9.29	2.362	7.79	1.2	12.4	28	1.0	18.7	9.2	0.5	4	7	43.5	<0.1
3486317	Drill Core	0.176	13.8	6	0.93	1342	0.229	9.29	3.105	5.82	0.7	11.0	29	0.9	17.2	7.7	0.5	2	8	31.4	<0.1
3486318	Drill Core	0.188	14.4	5	0.71	1264	0.246	9.10	2.965	6.21	0.7	12.0	29	0.9	17.3	8.3	0.5	2	9	31.3	0.4
3486319	Drill Core	0.184	17.2	6	0.65	1195	0.180	9.10	2.329	7.37	1.3	12.4	31	1.0	13.7	6.4	0.4	4	8	30.1	0.7
3486320	Rock Pulp	0.105	30.2	91	1.49	1017	0.507	7.28	2.033	3.28	4.3	75.9	65	3.7	25.8	19.3	1.3	2	12	33.3	0.3
3486321	Drill Core	0.146	9.2	6	0.77	147	0.189	8.67	1.822	8.01	0.7	12.2	21	1.0	14.8	5.9	0.3	3	8	24.5	2.1
3486322	Drill Core	0.076	12.1	3	0.45	710	0.104	8.90	2.838	6.19	0.5	9.1	22	0.9	14.5	6.1	0.5	2	4	13.9	0.8
3486323	Drill Core	0.170	11.9	5	0.95	914	0.178	8.63	2.890	4.48	0.6	7.9	24	0.9	17.7	6.1	0.4	3	7	20.7	0.3
3486324	Drill Core	0.185	12.2	7	1.02	1171	0.246	8.51	3.129	5.32	0.9	10.2	25	0.9	18.9	6.9	0.4	2	9	23.1	<0.1
3486325	Drill Core	0.190	13.1	8	1.13	1315	0.377	8.72	3.265	4.64	0.9	12.9	29	1.2	23.3	13.5	0.6	2	9	23.1	<0.1
3486326	Drill Core	0.167	11.3	6	1.00	1165	0.332	8.91	3.295	4.77	0.9	14.2	23	1.0	17.5	13.2	0.7	2	7	18.1	0.2
3486327	Drill Core	0.176	12.5	7	1.13	1347	0.367	8.93	2.991	4.65	1.0	12.5	25	1.2	19.1	12.6	0.6	2	9	22.2	0.2
3486328	Drill Core	0.176	8.2	7	0.98	938	0.331	7.99	3.011	5.30	1.2	12.4	18	0.9	15.3	10.1	0.5	2	8	17.1	0.5
3486329	Drill Core	0.187	9.6	8	1.13	1248	0.366	8.70	3.299	3.87	1.0	12.5	22	1.2	17.9	12.2	0.6	3	9	20.5	0.2
3486330	Rock	0.005	1.2	1	1.85	15	0.005	0.06	0.025	0.02	<0.1	1.4	1	<0.1	2.1	0.1	<0.1	<1	<1	1.2	<0.1
3486331	Drill Core	0.169	10.0	6	1.13	1383	0.377	8.87	3.128	4.43	1.2	11.3	23	1.2	18.7	12.1	0.6	2	8	23.1	0.3
3486332	Drill Core	0.162	9.4	7	1.01	1066	0.353	8.50	2.757	6.28	0.9	16.0	20	1.0	16.6	14.3	0.6	4	7	23.3	0.7
3486333	Drill Core	0.162	9.0	7	1.04	1250	0.355	8.31	3.064	4.79	0.6	14.1	20	1.1	16.7	12.8	0.7	2	8	22.9	0.3
3486334	Drill Core	0.169	9.4	7	1.07	1249	0.357	8.47	3.207	4.56	0.6	16.5	21	1.2	17.2	13.7	0.7	2	8	26.8	0.3
3486335	Drill Core	0.178	9.6	8	1.08	1178	0.358	8.64	3.116	5.21	0.7	14.2	21	1.3	16.6	13.1	0.7	3	8	27.6	0.6
3486336	Drill Core	0.154	8.3	7	1.02	1235	0.349	8.67	3.152	4.64	0.5	12.2	18	1.0	16.1	12.2	0.6	2	8	21.0	0.3
3486337	Drill Core	0.221	9.5	6	1.19	1289	0.405	8.75	3.236	3.72	0.8	8.4	20	1.0	15.7	9.6	0.5	2	8	24.8	0.4

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486308	Drill Core	122.4	0.6	0.05	<0.005	<1	<0.5	<0.5	
3486309	Drill Core	145.2	0.4	<0.05	<0.005	<1	<0.5	<0.5	
3486310	Rock	<0.1	<0.1	<0.05	<0.005	<1	2.6	<0.5	
3486311	Drill Core	155.4	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486312	Drill Core	141.9	0.9	0.07	<0.005	<1	<0.5	<0.5	
3486313	Drill Core	137.5	0.5	0.12	<0.005	<1	<0.5	<0.5	
3486314	Drill Core	170.2	0.5	<0.05	<0.005	1	<0.5	0.7	
3486315	Core DUP	169.6	0.6	<0.05	<0.005	<1	<0.5	0.6	
3486316	Drill Core	179.2	0.5	0.07	<0.005	<1	<0.5	0.6	
3486317	Drill Core	145.2	0.4	0.06	<0.005	<1	<0.5	<0.5	
3486318	Drill Core	154.8	0.4	0.05	0.011	<1	<0.5	<0.5	
3486319	Drill Core	183.7	0.5	<0.05	0.050	4	<0.5	0.6	
3486320	Rock Pulp	171.7	2.5	0.06	<0.005	3	0.7	1.1	
3486321	Drill Core	180.1	0.4	<0.05	0.027	6	<0.5	0.6	
3486322	Drill Core	135.0	0.3	<0.05	0.019	2	<0.5	<0.5	
3486323	Drill Core	99.8	0.2	<0.05	0.008	2	<0.5	<0.5	
3486324	Drill Core	132.5	0.4	<0.05	<0.005	1	<0.5	<0.5	
3486325	Drill Core	130.4	0.5	<0.05	0.006	2	<0.5	<0.5	
3486326	Drill Core	119.6	0.6	<0.05	0.007	<1	<0.5	<0.5	
3486327	Drill Core	123.0	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486328	Drill Core	97.9	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486329	Drill Core	108.9	0.5	0.06	0.007	<1	<0.5	<0.5	
3486330	Rock	0.3	<0.1	<0.05	<0.005	1	4.8	<0.5	
3486331	Drill Core	111.8	0.6	<0.05	0.014	1	<0.5	<0.5	
3486332	Drill Core	122.8	0.6	0.06	0.028	<1	<0.5	<0.5	
3486333	Drill Core	97.8	0.6	0.06	<0.005	<1	<0.5	<0.5	
3486334	Drill Core	89.4	0.6	<0.05	0.006	<1	<0.5	<0.5	
3486335	Drill Core	101.1	0.5	<0.05	0.020	2	<0.5	<0.5	
3486336	Drill Core	97.7	0.5	<0.05	0.009	1	<0.5	<0.5	
3486337	Drill Core	65.9	0.4	<0.05	0.024	<1	<0.5	<0.5	

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486338	Drill Core	3.24	<0.005	3.9	123.0	13.2	89	0.1	2.8	16.2	1135	4.43	5	1.4	2.2	1098	<0.1	1.9	<0.1	139	4.32
3486339	Drill Core	4.56	<0.005	8.5	93.7	18.5	107	0.1	5.2	14.3	1284	4.70	5	1.4	3.2	573	0.1	1.1	<0.1	114	2.94
3486340	Rock Pulp	0.13	0.223	91.5	2714.2	21.8	83	0.4	59.8	15.2	563	4.32	17	4.9	16.5	295	<0.1	2.2	0.8	126	2.65
3486341	Drill Core	3.92	<0.005	4.6	93.1	27.8	122	0.2	4.5	13.4	1407	4.36	5	1.3	3.3	416	0.2	0.7	0.1	116	3.21
3486342	Drill Core	4.63	<0.005	3.2	96.4	25.1	106	0.1	4.6	15.6	1233	4.56	4	1.5	3.5	530	0.2	0.9	<0.1	114	2.92
3486343	Drill Core	4.76	<0.005	5.2	93.9	21.5	95	0.1	4.0	13.5	1076	4.26	4	1.6	4.6	427	<0.1	0.9	<0.1	110	2.47
3486344	Drill Core	5.14	<0.005	6.3	96.2	12.1	110	<0.1	4.3	14.5	1198	4.38	4	1.4	3.6	334	<0.1	0.5	<0.1	117	2.65
3486345	Drill Core	5.11	0.006	11.0	95.8	22.1	102	0.1	4.7	12.8	1123	4.28	6	1.5	3.2	409	<0.1	0.7	0.2	115	2.61
3486346	Drill Core	4.63	<0.005	2.6	75.7	16.8	108	<0.1	4.3	13.0	1184	4.43	3	1.5	3.7	463	<0.1	1.0	<0.1	115	2.60
3486347	Drill Core	4.78	<0.005	5.4	74.5	14.7	109	<0.1	5.0	13.0	1216	4.53	4	1.4	3.9	449	<0.1	0.9	<0.1	110	2.53
3486348	Drill Core	5.00	<0.005	2.6	63.4	9.9	106	<0.1	5.0	13.2	1247	4.82	4	1.5	4.6	539	<0.1	1.1	<0.1	119	2.77
3486349	Drill Core	5.02	<0.005	5.3	141.4	19.4	103	0.1	4.7	15.6	1248	4.56	4	1.6	3.8	502	0.2	1.0	<0.1	113	2.97
3486350	Rock	1.34	<0.005	<0.1	0.5	0.6	2	<0.1	0.2	<0.2	113	0.09	<1	0.1	<0.1	78	<0.1	<0.1	<0.1	1	34.63
3486351	Drill Core	5.52	<0.005	2.2	77.8	11.2	102	<0.1	4.9	13.2	1217	4.42	3	1.8	4.3	526	<0.1	1.1	<0.1	107	2.75
3486352	Drill Core	5.37	0.008	3.9	109.2	29.8	97	0.2	4.7	13.8	1148	4.33	4	1.5	3.8	416	0.3	0.7	0.2	111	2.72
3486353	Drill Core	4.24	0.009	2.6	92.1	11.1	96	<0.1	4.5	13.6	1089	4.18	3	1.5	3.7	355	0.1	0.5	<0.1	100	2.44
3486354	Drill Core	5.06	<0.005	1.6	84.6	8.2	85	<0.1	4.5	14.2	1138	4.48	3	1.4	3.5	419	<0.1	0.8	<0.1	105	2.67
3486355	Core DUP		0.009	1.7	89.3	8.3	83	<0.1	5.3	14.6	1209	4.58	3	1.4	3.6	433	<0.1	0.8	<0.1	109	2.80
3486356	Drill Core	4.87	<0.005	4.4	87.9	8.7	89	<0.1	4.7	13.6	1090	4.38	3	1.4	3.5	449	0.1	0.8	<0.1	104	2.30
3486357	Drill Core	4.77	<0.005	2.1	80.6	7.9	113	<0.1	4.8	14.0	1244	4.65	2	1.3	3.3	332	0.2	0.6	<0.1	110	2.54
3486358	Drill Core	5.18	<0.005	3.0	75.5	9.5	104	<0.1	4.8	13.1	1076	4.48	3	1.3	3.4	286	<0.1	0.6	<0.1	119	2.68
3486359	Drill Core	4.39	<0.005	7.1	102.0	9.1	101	<0.1	4.8	13.6	1077	4.46	3	1.2	2.9	331	0.1	0.7	<0.1	119	2.47
3486360	Rock Pulp	0.11	0.345	10.3	2261.5	6.3	53	0.5	11.5	15.7	672	5.56	17	1.1	1.5	503	0.2	0.8	0.2	231	2.80
3486361	Drill Core	3.51	<0.005	2.0	100.3	11.7	98	<0.1	5.3	14.5	1090	4.53	3	1.4	3.4	289	0.2	1.4	<0.1	113	2.94
3486362	Drill Core	3.60	0.013	6.8	151.1	7.7	66	0.1	5.3	12.9	846	3.85	10	1.2	2.4	151	0.4	2.5	0.1	135	2.12
3486363	Drill Core	2.53	0.132	30.1	314.9	32.8	106	0.4	4.5	14.8	1116	4.15	5	1.7	3.1	230	1.3	1.9	0.4	130	3.29
3486364	Drill Core	4.77	0.046	5.1	142.8	13.4	91	0.1	5.4	15.1	1091	4.73	4	1.5	4.2	357	0.2	1.2	<0.1	122	2.62
3486365	Drill Core	4.54	0.129	4.3	153.5	11.2	102	0.2	5.9	15.4	1186	4.88	3	1.5	3.7	380	0.2	1.0	<0.1	127	2.77
3486366	Drill Core	4.09	0.007	4.7	157.1	8.8	93	0.1	5.5	15.6	1215	4.72	3	1.2	3.1	375	0.1	0.7	<0.1	137	3.07
3486367	Drill Core	5.06	0.010	9.7	80.6	7.2	90	<0.1	5.7	14.3	949	4.87	3	1.3	3.5	291	0.2	0.6	<0.1	129	2.28

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486338	Drill Core	0.216	9.0	3	0.99	1372	0.380	8.93	3.150	3.42	0.6	7.8	18	0.8	14.7	8.8	0.5	2	6	21.3	0.4
3486339	Drill Core	0.174	9.0	8	1.04	1301	0.358	8.58	3.107	4.88	0.8	11.9	19	1.2	15.8	12.5	0.6	<1	8	17.4	0.2
3486340	Rock Pulp	0.104	27.0	88	1.45	961	0.492	7.16	2.021	3.28	4.3	68.1	57	3.2	23.0	17.3	1.2	2	12	30.7	0.3
3486341	Drill Core	0.176	7.9	6	1.02	1253	0.344	8.21	2.951	5.56	0.7	12.0	18	1.0	15.4	11.7	0.6	2	8	23.8	0.4
3486342	Drill Core	0.178	8.7	8	1.01	1295	0.363	8.72	3.209	4.75	0.7	11.9	19	1.1	15.9	13.7	0.7	2	8	18.3	0.2
3486343	Drill Core	0.170	10.4	7	0.86	1243	0.347	8.90	3.360	5.39	0.7	14.3	21	1.3	17.5	13.2	0.8	2	7	15.3	0.3
3486344	Drill Core	0.184	9.2	7	0.95	1265	0.359	8.22	3.290	4.14	0.9	15.8	20	1.2	16.4	13.3	0.7	3	8	18.4	0.3
3486345	Drill Core	0.160	10.1	6	0.91	1222	0.327	8.31	2.961	5.68	0.8	17.0	21	1.1	15.9	11.7	0.6	2	7	19.1	0.5
3486346	Drill Core	0.181	10.8	7	0.96	1195	0.357	8.82	3.264	4.33	1.0	15.5	22	1.1	16.6	12.0	0.6	3	8	20.0	0.2
3486347	Drill Core	0.177	9.2	7	1.03	1196	0.363	8.82	3.340	3.94	0.7	13.3	20	1.3	16.1	12.5	0.7	3	8	22.6	0.2
3486348	Drill Core	0.186	9.7	8	1.05	1106	0.379	8.72	3.449	3.99	1.0	15.8	21	1.4	17.4	13.5	0.8	2	8	18.7	0.1
3486349	Drill Core	0.172	9.6	8	0.98	1135	0.350	8.41	3.162	5.06	0.7	14.5	19	1.2	16.8	12.4	0.7	3	8	21.2	0.4
3486350	Rock	0.005	1.3	1	1.79	13	0.005	0.05	0.021	0.02	<0.1	1.4	<1	<0.1	2.1	0.1	<0.1	<1	<1	1.3	<0.1
3486351	Drill Core	0.158	10.1	6	0.96	1197	0.342	8.43	3.202	4.30	0.8	18.6	22	1.4	17.8	13.5	0.8	1	7	27.1	0.3
3486352	Drill Core	0.162	9.6	6	0.99	970	0.334	8.49	3.223	5.12	0.9	14.3	19	1.2	16.1	11.8	0.7	2	7	27.7	0.6
3486353	Drill Core	0.147	9.2	7	0.93	1121	0.319	8.19	3.225	4.93	0.9	13.9	18	1.1	14.7	11.8	0.6	2	7	28.8	0.4
3486354	Drill Core	0.175	9.7	7	1.01	1151	0.344	8.66	3.358	4.49	0.4	12.7	19	1.3	15.9	11.5	0.6	2	8	23.6	0.4
3486355	Core DUP	0.169	9.6	7	1.04	1144	0.364	8.75	3.449	4.66	0.5	13.3	20	1.1	16.5	12.3	0.7	1	8	22.9	0.5
3486356	Drill Core	0.159	9.3	6	0.98	1209	0.325	8.68	3.369	4.88	0.7	13.3	21	1.3	17.2	13.1	0.7	2	7	25.6	0.5
3486357	Drill Core	0.163	8.3	7	1.05	1065	0.306	8.59	3.474	4.34	1.2	11.9	20	1.4	16.5	12.3	0.7	3	7	31.3	0.3
3486358	Drill Core	0.166	8.2	6	0.98	1022	0.259	8.42	3.210	5.15	1.4	12.2	19	1.1	15.7	9.8	0.5	3	7	26.1	0.5
3486359	Drill Core	0.173	7.6	7	1.02	1113	0.245	8.17	3.059	5.22	0.8	11.3	18	1.1	15.2	8.4	0.5	2	8	25.9	0.4
3486360	Rock Pulp	0.129	8.4	21	1.21	1286	0.327	8.10	3.029	4.06	0.8	38.7	19	2.1	18.5	2.7	0.2	<1	11	13.0	0.2
3486361	Drill Core	0.172	7.7	6	0.89	1134	0.205	8.50	3.067	4.56	1.3	12.3	19	1.0	14.4	6.0	0.4	2	8	22.0	0.3
3486362	Drill Core	0.170	8.1	7	1.35	859	0.159	7.51	2.536	3.96	6.0	12.6	18	0.7	9.1	3.5	0.2	2	9	10.3	0.5
3486363	Drill Core	0.172	8.1	5	1.17	532	0.181	7.83	2.034	5.58	1.6	15.2	19	0.8	13.8	6.2	0.3	1	7	19.6	0.8
3486364	Drill Core	0.179	9.4	8	1.17	1174	0.274	8.66	3.340	3.70	0.6	16.2	21	1.0	17.4	9.8	0.6	<1	8	22.1	0.2
3486365	Drill Core	0.188	9.7	7	1.20	1192	0.304	8.40	3.204	3.82	0.8	16.0	22	0.9	17.3	10.4	0.6	2	8	21.5	0.2
3486366	Drill Core	0.203	7.9	7	1.23	1251	0.351	8.24	3.219	3.21	0.8	16.5	19	1.1	16.5	11.3	0.6	1	9	24.8	0.2
3486367	Drill Core	0.194	9.3	7	1.25	1344	0.340	8.79	3.476	3.70	1.7	13.4	22	1.2	16.7	11.5	0.6	2	9	22.7	0.2

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486338	Drill Core	59.0	0.3	<0.05	0.015	2	<0.5	<0.5	
3486339	Drill Core	92.9	0.5	<0.05	0.011	<1	<0.5	<0.5	
3486340	Rock Pulp	152.4	2.1	0.08	<0.005	2	<0.5	1.0	
3486341	Drill Core	109.1	0.4	<0.05	0.009	<1	<0.5	<0.5	
3486342	Drill Core	94.4	0.5	<0.05	0.007	1	<0.5	<0.5	
3486343	Drill Core	102.3	0.6	<0.05	0.007	1	<0.5	<0.5	
3486344	Drill Core	94.1	0.5	<0.05	0.008	<1	<0.5	<0.5	
3486345	Drill Core	107.6	0.6	<0.05	0.021	<1	<0.5	<0.5	
3486346	Drill Core	95.4	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486347	Drill Core	89.9	0.5	<0.05	0.006	<1	<0.5	<0.5	
3486348	Drill Core	76.7	0.5	0.05	<0.005	<1	<0.5	<0.5	
3486349	Drill Core	99.5	0.5	<0.05	0.010	<1	<0.5	<0.5	
3486350	Rock	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
3486351	Drill Core	105.1	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486352	Drill Core	113.9	0.6	<0.05	0.008	<1	<0.5	<0.5	
3486353	Drill Core	107.4	0.5	<0.05	0.005	<1	<0.5	<0.5	
3486354	Drill Core	99.9	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486355	Core DUP	105.3	0.5	<0.05	0.005	2	<0.5	<0.5	
3486356	Drill Core	102.7	0.4	<0.05	0.006	2	<0.5	<0.5	
3486357	Drill Core	89.0	0.4	0.07	0.005	<1	<0.5	<0.5	
3486358	Drill Core	98.3	0.4	0.06	0.012	<1	<0.5	<0.5	
3486359	Drill Core	96.0	0.4	<0.05	0.006	1	<0.5	<0.5	
3486360	Rock Pulp	86.4	1.2	0.10	0.035	2	<0.5	<0.5	
3486361	Drill Core	104.5	0.3	<0.05	<0.005	<1	<0.5	<0.5	
3486362	Drill Core	93.0	0.5	<0.05	0.007	<1	<0.5	<0.5	
3486363	Drill Core	120.6	0.4	<0.05	0.052	2	<0.5	<0.5	
3486364	Drill Core	89.9	0.6	<0.05	0.020	<1	<0.5	<0.5	
3486365	Drill Core	91.0	0.5	<0.05	0.011	<1	<0.5	<0.5	
3486366	Drill Core	66.8	1.3	0.05	0.016	<1	<0.5	<0.5	
3486367	Drill Core	76.1	0.5	<0.05	0.014	<1	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486368	Drill Core	3.01	<0.005	2.5	87.1	6.6	97	<0.1	5.3	15.6	1253	4.68	4	1.2	2.9	358	0.2	0.6	<0.1	128	2.97
3486369	Drill Core	3.88	<0.005	2.9	121.1	7.9	88	<0.1	5.2	15.5	1296	4.64	5	1.4	3.4	579	0.3	1.1	<0.1	126	3.40
3486370	Rock	1.41	<0.005	<0.1	0.7	0.4	3	<0.1	<0.1	0.3	138	0.11	3	<0.1	<0.1	76	<0.1	<0.1	<0.1	1	31.54
3486371	Drill Core	4.76	<0.005	2.7	117.6	9.0	78	0.1	5.4	16.0	1072	4.44	6	1.3	3.2	556	0.2	1.3	<0.1	125	3.18
3486372	Drill Core	4.56	<0.005	4.5	102.1	10.1	89	<0.1	5.9	15.5	1281	4.82	5	1.5	3.3	668	0.2	1.5	<0.1	143	3.62
3486373	Drill Core	4.88	<0.005	1.9	104.4	9.7	81	<0.1	5.1	13.4	1085	4.22	7	1.6	3.4	750	<0.1	1.6	<0.1	135	3.88
3486374	Drill Core	4.45	<0.005	8.3	79.7	6.9	80	<0.1	5.3	15.4	1086	4.37	5	1.5	3.5	526	0.1	0.9	<0.1	134	3.80
3486375	Drill Core	2.51	0.010	2.3	273.6	6.2	148	0.2	24.2	37.8	2153	8.99	5	0.8	1.9	585	0.3	1.7	<0.1	448	8.64
3486376	Drill Core	4.62	0.009	1.4	400.7	4.9	90	0.3	24.5	40.1	1598	8.97	5	0.3	0.5	798	0.3	2.4	<0.1	468	9.17
3486377	Drill Core	3.15	0.017	2.7	259.6	32.5	149	0.3	24.1	35.4	1798	8.38	5	0.5	0.7	440	0.9	1.9	0.2	366	7.90
3486378	Drill Core	2.78	0.007	2.0	52.5	3.7	132	<0.1	23.4	40.7	1828	9.63	7	0.3	0.7	494	<0.1	1.6	<0.1	399	8.25
3486379	Drill Core	4.74	<0.005	1.7	112.4	3.0	110	0.1	23.2	41.3	1730	8.74	9	0.3	0.7	786	0.1	2.1	<0.1	345	8.86
3486380	Rock Pulp	0.13	0.223	91.9	2734.6	22.2	81	0.4	60.9	15.6	563	4.30	23	4.8	17.5	314	0.2	2.3	0.8	126	2.66
3486381	Drill Core	5.17	0.006	1.1	133.1	3.9	131	0.2	23.6	42.6	1878	9.21	10	0.5	0.6	582	0.2	1.8	<0.1	377	8.15
3486382	Drill Core	4.97	0.006	1.1	126.1	4.9	163	0.2	21.6	43.1	2092	10.13	10	0.2	0.5	690	0.2	2.1	<0.1	418	8.12
3486383	Drill Core	4.10	<0.005	3.6	153.5	224.5	362	0.9	18.4	34.4	2116	7.55	10	0.8	0.8	436	7.4	1.0	2.0	322	6.87
3486384	Drill Core	3.51	0.010	0.9	149.5	5.7	138	0.1	23.0	39.0	1646	7.71	9	0.2	0.4	767	0.4	2.1	<0.1	317	7.20
3486385	Drill Core	3.70	<0.005	1.3	269.9	6.3	132	0.2	27.1	42.0	1908	8.76	13	0.5	1.0	900	0.3	2.7	<0.1	378	8.85
3486386	Drill Core	5.35	0.008	1.0	365.6	3.9	130	0.3	25.5	40.7	1779	8.46	10	0.3	0.6	887	0.3	2.1	<0.1	376	8.31
3486387	Drill Core	3.97	0.010	1.6	158.1	2.9	88	0.2	15.5	31.1	1320	6.75	7	0.3	0.4	572	<0.1	1.3	<0.1	274	7.31
3486388	Drill Core	4.73	0.009	2.1	190.6	2.5	96	0.2	19.1	37.1	1433	7.47	6	0.3	0.5	520	0.1	1.3	<0.1	300	7.32
3486389	Drill Core	4.60	0.006	0.5	181.2	3.3	96	0.2	14.6	29.1	1230	6.10	6	0.2	0.5	628	0.2	1.4	<0.1	238	6.26
3486390	Rock	1.42	<0.005	<0.1	0.8	0.4	3	<0.1	<0.1	<0.2	121	0.11	2	0.2	<0.1	76	<0.1	<0.1	<0.1	1	32.91
3486391	Drill Core	4.64	0.015	27.8	162.4	37.7	98	0.3	14.7	26.4	1318	6.47	3	0.4	0.9	376	0.4	1.3	<0.1	267	6.10
3486392	Drill Core	4.72	0.006	1.3	133.4	14.9	99	0.3	16.6	27.6	1244	6.51	4	0.3	0.5	424	0.3	1.4	<0.1	235	5.79
3486393	Drill Core	5.02	0.009	0.7	172.3	31.8	89	0.3	16.7	26.4	1273	5.94	3	0.7	1.2	546	0.2	0.8	0.2	255	6.77
3486394	Drill Core	7.39	0.005	1.6	153.2	20.8	99	0.2	20.3	31.7	1538	6.93	5	0.5	0.6	928	0.2	1.5	<0.1	302	7.33
3486395	Core DUP		0.008	1.7	153.0	21.0	100	0.2	21.3	32.1	1545	6.87	6	0.5	0.6	940	0.2	1.4	<0.1	301	7.35
3486396	Drill Core	2.32	0.009	1.0	242.9	3.8	109	0.3	25.2	37.9	1743	7.84	6	0.2	0.4	845	0.1	1.5	<0.1	328	7.79
3486397	Drill Core	3.46	0.006	0.7	121.8	3.3	90	0.1	18.2	25.3	1260	5.94	3	0.3	0.6	469	0.2	1.0	<0.1	243	4.99

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486368	Drill Core	0.192	8.2	7	1.12	1332	0.356	8.56	3.355	3.65	0.6	14.0	20	1.3	16.1	12.0	0.6	2	8	21.6	<0.1
3486369	Drill Core	0.188	8.4	6	1.13	1216	0.348	8.39	3.251	3.65	0.6	14.2	19	1.2	15.3	11.1	0.6	2	8	18.6	0.1
3486370	Rock	0.006	1.1	1	2.83	12	0.006	0.07	0.026	0.02	<0.1	1.2	<1	<0.1	2.0	0.1	<0.1	<1	<1	1.3	<0.1
3486371	Drill Core	0.188	8.9	6	1.10	1389	0.355	8.62	3.232	3.32	0.7	15.0	19	1.0	15.9	10.8	0.6	2	8	19.0	0.3
3486372	Drill Core	0.201	8.8	6	1.17	1383	0.356	8.64	3.207	3.44	0.5	19.0	20	1.1	16.5	9.8	0.6	2	9	18.3	0.2
3486373	Drill Core	0.197	7.5	5	0.98	1212	0.316	8.95	3.195	3.27	0.5	17.0	17	1.0	14.6	8.8	0.5	3	7	25.4	0.1
3486374	Drill Core	0.204	8.3	4	1.12	1235	0.325	8.47	3.337	3.09	0.5	20.6	19	0.9	15.7	9.1	0.6	3	7	25.5	0.1
3486375	Drill Core	0.105	7.0	44	3.23	586	0.647	7.40	1.793	1.96	0.7	18.3	15	1.0	17.7	4.6	0.3	2	36	34.5	0.2
3486376	Drill Core	0.049	4.1	50	3.69	458	0.556	7.69	1.073	1.71	0.3	17.4	9	0.6	12.6	1.7	0.1	1	35	31.2	0.2
3486377	Drill Core	0.170	9.8	50	3.20	486	0.461	6.64	1.848	2.26	1.7	11.9	15	0.6	13.8	2.0	0.1	2	31	40.2	0.7
3486378	Drill Core	0.277	6.2	48	3.48	322	0.572	6.35	1.513	1.99	0.6	25.2	14	0.7	16.0	2.0	0.1	<1	32	31.1	0.2
3486379	Drill Core	0.215	5.8	49	3.43	401	0.523	6.94	1.782	1.59	0.5	18.9	13	0.6	15.1	2.3	0.1	<1	32	28.7	0.1
3486380	Rock Pulp	0.106	30.7	82	1.45	1034	0.488	7.42	2.025	3.26	4.8	70.8	66	3.4	24.8	17.4	1.3	3	13	32.2	0.3
3486381	Drill Core	0.288	6.2	55	3.78	520	0.559	6.79	1.366	2.34	0.4	17.6	13	0.7	15.2	2.0	0.1	<1	31	44.9	0.3
3486382	Drill Core	0.346	7.7	38	3.52	467	0.642	6.84	1.385	2.12	0.5	20.9	17	0.7	15.7	1.5	<0.1	<1	29	41.8	0.2
3486383	Drill Core	0.175	7.4	37	2.73	903	0.463	7.43	1.683	4.45	0.7	16.0	15	0.7	14.1	3.4	0.2	2	25	75.8	0.9
3486384	Drill Core	0.205	5.8	41	3.15	884	0.444	8.38	1.766	2.16	0.4	13.9	13	0.7	12.9	1.6	<0.1	<1	25	39.5	<0.1
3486385	Drill Core	0.240	8.2	58	3.66	566	0.540	7.42	1.475	1.27	0.6	21.3	17	0.7	18.4	3.4	0.2	<1	33	30.5	<0.1
3486386	Drill Core	0.219	7.4	54	3.62	621	0.529	7.68	1.635	1.50	0.5	16.4	17	0.6	16.5	3.3	0.1	<1	32	32.3	0.1
3486387	Drill Core	0.182	6.1	39	2.31	694	0.355	8.41	2.353	2.46	0.6	7.0	12	0.5	11.6	1.2	<0.1	<1	21	48.3	0.9
3486388	Drill Core	0.186	7.0	45	2.95	540	0.430	7.71	2.365	2.22	1.1	11.9	14	0.7	13.6	1.8	0.1	<1	24	36.3	1.4
3486389	Drill Core	0.182	6.0	31	2.24	750	0.380	9.29	2.476	2.72	0.3	7.5	13	0.5	10.2	1.9	<0.1	<1	18	38.8	0.5
3486390	Rock	0.006	1.0	<1	1.96	11	0.004	0.06	0.023	0.01	<0.1	1.5	<1	<0.1	2.0	0.2	<0.1	<1	<1	1.1	<0.1
3486391	Drill Core	0.171	6.5	32	2.68	598	0.365	7.21	2.286	2.21	0.7	11.5	13	0.5	11.7	2.3	0.1	1	21	46.4	0.9
3486392	Drill Core	0.166	6.4	34	2.65	661	0.375	8.47	2.224	2.65	0.6	8.5	13	0.5	11.3	2.0	0.1	<1	21	54.0	0.8
3486393	Drill Core	0.132	6.1	32	2.63	796	0.342	8.21	2.455	2.75	0.7	14.2	12	0.5	12.4	3.4	0.2	1	22	49.1	1.0
3486394	Drill Core	0.188	8.5	48	3.16	765	0.423	7.80	2.246	1.85	0.4	14.8	16	0.6	14.2	2.3	0.1	1	26	44.4	0.6
3486395	Core DUP	0.191	9.0	47	3.14	800	0.419	7.52	2.207	1.82	0.6	25.1	17	0.5	14.3	2.3	0.1	1	26	42.1	0.6
3486396	Drill Core	0.206	6.8	60	3.53	911	0.496	7.37	1.844	1.95	0.6	14.3	15	0.5	14.9	1.9	<0.1	<1	30	43.4	0.2
3486397	Drill Core	0.154	5.3	43	2.65	622	0.369	5.49	1.638	1.41	0.5	10.4	12	0.3	12.5	2.0	0.1	<1	23	31.3	0.2

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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486368	Drill Core	68.0	0.5	<0.05	0.008	<1	<0.5	<0.5	
3486369	Drill Core	62.9	0.5	0.07	0.007	<1	<0.5	<0.5	
3486370	Rock	0.5	<0.1	<0.05	<0.005	1	2.7	<0.5	
3486371	Drill Core	65.9	0.6	<0.05	0.008	<1	<0.5	<0.5	
3486372	Drill Core	63.4	0.5	0.07	0.006	<1	<0.5	<0.5	
3486373	Drill Core	63.8	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486374	Drill Core	58.6	0.7	<0.05	0.013	<1	<0.5	<0.5	
3486375	Drill Core	54.0	1.0	0.06	<0.005	<1	0.9	<0.5	
3486376	Drill Core	59.2	0.8	0.07	<0.005	<1	<0.5	<0.5	
3486377	Drill Core	100.7	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486378	Drill Core	89.8	1.0	0.08	<0.005	<1	<0.5	<0.5	
3486379	Drill Core	57.5	0.8	<0.05	<0.005	<1	1.1	<0.5	
3486380	Rock Pulp	166.4	2.6	0.09	<0.005	1	<0.5	0.9	
3486381	Drill Core	76.0	0.8	0.06	<0.005	<1	<0.5	<0.5	
3486382	Drill Core	69.8	1.3	0.07	<0.005	<1	1.0	<0.5	
3486383	Drill Core	132.8	0.7	<0.05	0.012	1	<0.5	0.6	
3486384	Drill Core	42.1	0.6	0.05	<0.005	<1	<0.5	<0.5	
3486385	Drill Core	38.3	1.4	0.05	<0.005	<1	<0.5	<0.5	
3486386	Drill Core	40.4	0.7	<0.05	<0.005	<1	0.5	<0.5	
3486387	Drill Core	76.7	0.4	<0.05	<0.005	1	0.6	<0.5	
3486388	Drill Core	72.0	0.6	0.07	<0.005	1	0.8	<0.5	
3486389	Drill Core	82.3	0.4	<0.05	<0.005	<1	<0.5	<0.5	
3486390	Rock	0.2	<0.1	<0.05	<0.005	<1	3.1	<0.5	
3486391	Drill Core	84.4	0.6	<0.05	0.064	<1	<0.5	<0.5	
3486392	Drill Core	84.4	0.4	<0.05	<0.005	<1	<0.5	<0.5	
3486393	Drill Core	77.2	0.5	<0.05	0.006	<1	0.8	<0.5	
3486394	Drill Core	56.9	0.5	<0.05	0.006	<1	0.9	<0.5	
3486395	Core DUP	56.9	0.8	<0.05	<0.005	<1	0.5	<0.5	
3486396	Drill Core	63.5	0.6	0.08	<0.005	<1	0.8	<0.5	
3486397	Drill Core	46.0	0.5	<0.05	<0.005	<1	0.6	<0.5	

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486398	Drill Core	4.26	0.017	0.8	334.8	11.4	148	0.4	24.4	32.4	1624	7.66	3	0.4	0.4	445	0.7	1.7	<0.1	334	6.90
3486399	Drill Core	5.06	0.040	34.8	225.7	15.8	128	0.3	23.2	33.1	1475	7.08	4	0.7	0.4	359	0.8	2.5	0.2	305	7.93
3486400	Rock Pulp	0.13	0.666	348.2	5222.4	19.4	72	1.3	32.7	16.2	546	4.73	62	3.8	14.1	361	0.4	3.7	1.4	119	2.52
3486401	Drill Core	5.09	0.052	0.5	191.2	11.0	125	0.3	19.1	31.3	1430	6.82	4	0.5	0.3	361	0.9	2.4	0.1	266	7.98
3486402	Drill Core	5.12	0.020	1.1	97.6	21.5	89	0.2	12.9	21.1	1201	5.36	2	0.5	0.4	323	0.6	0.9	<0.1	173	5.35
3486403	Drill Core	5.18	0.011	7.8	244.7	33.2	120	0.4	18.9	31.0	1605	6.62	5	0.4	0.4	431	1.0	1.4	0.2	277	7.11
3486404	Drill Core	5.03	0.013	4.6	255.6	150.9	148	0.5	20.0	36.9	1644	7.37	3	0.5	0.6	358	2.5	1.1	0.4	338	7.48
3486405	Drill Core	2.91	0.020	1.1	160.1	21.4	118	0.2	16.1	32.7	1530	7.26	3	0.4	0.4	361	0.6	1.4	<0.1	319	7.06
3486406	Drill Core	4.03	0.025	120.6	145.3	111.8	119	0.4	14.1	30.0	1426	7.02	3	0.4	0.5	371	0.8	1.5	0.6	290	6.48
3486407	Drill Core	4.54	<0.005	0.5	142.9	4.3	97	0.1	19.9	31.9	1458	7.32	6	0.3	0.5	929	0.2	2.0	<0.1	342	7.10
3486408	Drill Core	5.16	0.009	0.8	279.3	5.3	103	0.3	22.3	35.0	1515	7.08	6	0.3	0.7	1090	0.3	2.4	<0.1	377	7.21
3486409	Drill Core	4.96	0.008	12.6	109.3	5.4	90	0.2	17.5	33.1	1361	6.59	6	0.3	0.4	945	0.2	2.7	<0.1	347	7.16
3486410	Rock	1.32	<0.005	<0.1	1.2	0.5	2	<0.1	0.7	0.3	124	0.11	4	<0.1	<0.1	83	<0.1	<0.1	<0.1	1	31.31
3486411	Drill Core	4.07	0.012	8.6	256.3	5.7	106	0.3	19.5	33.7	1436	7.23	5	0.5	0.4	396	0.3	2.1	<0.1	330	6.31
3486412	Drill Core	4.39	0.016	1.0	196.8	3.8	106	0.2	22.2	34.9	1562	7.44	6	0.2	0.4	1365	0.1	2.6	<0.1	304	7.98
3486413	Drill Core	4.96	0.007	0.5	144.3	4.1	89	0.2	21.9	34.8	1529	7.45	7	0.2	0.4	1077	0.2	2.6	<0.1	330	8.45
3486414	Drill Core	4.73	0.008	0.4	143.7	4.5	98	0.2	19.1	31.5	1555	6.81	6	0.3	0.6	848	0.1	1.9	<0.1	256	7.23
3486415	Drill Core	5.42	0.010	1.1	193.2	5.7	113	0.2	20.8	36.0	1614	7.38	5	0.6	0.4	802	0.1	1.1	<0.1	283	7.23
3486416	Drill Core	4.72	0.010	2.0	304.0	5.1	91	0.3	23.1	34.5	1602	7.35	6	0.3	0.4	918	0.3	1.2	<0.1	299	8.03
3486417	Drill Core	4.91	<0.005	0.8	104.2	3.5	78	0.1	21.4	29.9	1402	6.70	6	0.4	0.7	832	<0.1	1.0	<0.1	277	6.95
3486418	Drill Core	3.66	0.017	1.5	196.6	6.5	87	0.2	21.1	39.4	1185	6.93	8	0.7	0.5	879	0.1	1.7	<0.1	317	6.17
3486419	Drill Core	3.50	0.008	2.4	183.9	4.3	55	0.2	6.4	17.7	762	5.11	5	0.9	1.8	901	0.1	0.9	<0.1	172	3.61
3486420	Rock Pulp	0.13	0.223	99.1	2781.9	22.8	80	0.4	60.6	15.2	565	4.38	18	5.0	18.7	333	0.2	2.5	0.7	124	2.53
3486421	Drill Core	5.11	0.008	2.2	134.4	5.3	54	0.1	7.3	15.8	835	4.92	6	1.0	1.9	848	0.2	1.1	<0.1	180	3.87
3486422	Drill Core	4.41	0.009	2.0	210.7	7.8	102	0.2	18.4	35.4	1526	8.93	8	0.9	1.0	709	0.2	1.0	<0.1	413	6.12
3486423	Drill Core	5.41	0.006	1.0	148.3	6.9	99	0.2	17.3	33.9	1516	8.00	8	0.5	0.6	1147	<0.1	1.0	<0.1	350	7.71
3486424	Drill Core	5.05	0.006	1.0	231.1	8.6	108	0.3	19.0	34.4	1526	7.51	8	0.4	0.4	1215	0.4	1.4	<0.1	321	7.41
3486425	Drill Core	4.57	0.019	9.0	439.9	9.4	75	0.5	22.4	27.0	1592	5.91	9	1.3	1.1	693	0.5	1.0	<0.1	317	7.11
3486426	Drill Core	4.63	0.006	1.9	158.6	9.7	80	0.2	30.9	26.2	1331	5.61	4	1.0	1.6	710	0.2	0.8	<0.1	264	6.05
3486427	Drill Core	2.68	0.007	0.8	209.6	3.7	112	0.2	23.6	36.3	1580	7.50	6	0.4	0.4	710	0.2	1.2	<0.1	296	6.63

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486398	Drill Core	0.230	8.2	63	3.41	564	0.459	7.12	2.443	1.95	1.4	9.4	17	0.3	16.0	1.7	0.1	2	32	39.1	1.3
3486399	Drill Core	0.194	10.2	57	2.57	439	0.321	6.46	2.016	2.10	2.1	5.7	16	0.4	12.0	1.2	<0.1	2	29	39.7	2.2
3486400	Rock Pulp	0.107	24.1	64	1.39	398	0.493	7.05	2.046	3.14	3.6	85.6	58	3.1	22.8	20.0	1.4	3	12	31.0	0.7
3486401	Drill Core	0.216	7.3	42	2.38	156	0.301	6.51	2.215	2.27	2.2	4.6	14	0.3	12.3	0.9	<0.1	2	25	38.4	2.6
3486402	Drill Core	0.144	6.1	23	2.03	319	0.223	8.37	3.497	2.36	1.9	7.6	11	0.2	8.1	1.0	<0.1	2	14	42.8	3.1
3486403	Drill Core	0.222	8.1	49	2.81	721	0.402	7.48	2.310	2.31	0.7	10.2	16	0.4	13.5	1.6	<0.1	2	23	52.0	1.3
3486404	Drill Core	0.337	10.1	65	3.47	637	0.471	6.51	2.119	2.25	0.7	11.5	22	0.3	17.0	2.1	0.1	2	26	51.0	1.2
3486405	Drill Core	0.255	7.9	56	3.06	637	0.459	6.93	2.118	2.50	1.1	10.9	17	0.3	14.9	2.2	0.1	2	23	43.2	0.9
3486406	Drill Core	0.287	16.0	44	2.78	607	0.407	6.71	2.099	2.46	1.3	6.4	23	0.2	14.4	1.7	<0.1	2	21	39.4	1.3
3486407	Drill Core	0.253	7.9	63	3.19	895	0.409	8.08	2.109	1.62	0.2	12.5	18	0.3	15.1	1.8	<0.1	<1	25	26.4	<0.1
3486408	Drill Core	0.280	8.4	72	3.47	934	0.397	8.30	1.995	1.39	0.3	12.5	18	0.3	15.8	2.3	0.1	<1	26	27.7	0.1
3486409	Drill Core	0.280	7.5	58	2.89	1450	0.423	8.41	1.781	2.38	0.3	9.7	17	0.3	13.4	2.3	0.1	<1	21	31.7	0.4
3486410	Rock	0.005	1.2	<1	2.23	16	0.005	0.08	0.045	0.02	<0.1	1.5	<1	<0.1	2.2	<0.1	<0.1	<1	<1	1.2	<0.1
3486411	Drill Core	0.262	8.0	67	2.99	1077	0.463	7.83	2.418	2.44	3.8	13.1	17	0.3	15.1	2.3	<0.1	3	25	42.6	0.8
3486412	Drill Core	0.241	7.8	66	3.51	1163	0.522	9.19	2.317	2.15	0.4	11.9	17	0.4	15.3	2.1	0.1	<1	28	43.4	0.1
3486413	Drill Core	0.267	7.6	63	3.45	739	0.488	8.29	1.885	1.10	0.3	12.7	17	0.3	15.3	1.9	0.1	<1	26	29.2	0.1
3486414	Drill Core	0.224	7.5	63	3.26	1009	0.464	7.95	2.151	2.17	0.5	14.7	17	0.3	15.3	2.4	0.1	<1	26	39.0	0.3
3486415	Drill Core	0.259	8.4	71	3.47	1048	0.563	8.33	2.223	2.39	0.6	11.8	17	0.4	15.5	2.2	0.1	1	27	55.9	0.9
3486416	Drill Core	0.239	7.4	82	3.66	862	0.508	8.02	1.841	1.64	0.4	14.1	16	0.3	16.3	1.9	0.1	<1	29	33.7	0.2
3486417	Drill Core	0.256	7.3	70	3.28	911	0.392	8.29	2.036	1.70	0.5	12.0	16	0.3	13.7	1.5	<0.1	<1	23	33.7	<0.1
3486418	Drill Core	0.260	8.2	65	2.91	1031	0.467	8.88	2.378	1.75	0.5	10.8	18	0.4	14.5	2.0	0.1	1	23	36.8	1.2
3486419	Drill Core	0.213	7.8	7	1.50	1717	0.399	8.49	3.537	2.50	0.8	8.9	18	0.4	13.6	8.5	0.5	<1	9	33.2	0.4
3486420	Rock Pulp	0.105	28.9	83	1.50	1127	0.493	7.08	2.057	2.73	5.9	75.2	65	3.3	24.6	18.7	1.4	3	13	34.8	0.3
3486421	Drill Core	0.212	7.1	7	1.47	1831	0.392	8.17	3.342	2.84	0.5	10.7	17	0.5	12.8	8.9	0.5	1	9	27.0	0.4
3486422	Drill Core	0.293	11.0	64	2.87	867	0.578	7.73	2.280	2.52	0.6	14.3	23	0.7	17.6	5.0	0.2	2	24	35.4	1.1
3486423	Drill Core	0.200	7.5	67	2.91	738	0.493	8.50	2.013	1.99	0.3	11.0	16	0.4	14.3	2.4	0.1	1	24	39.6	0.3
3486424	Drill Core	0.246	7.8	68	3.13	938	0.523	8.37	1.964	2.36	0.5	9.5	16	0.4	14.8	2.1	<0.1	2	26	56.0	0.7
3486425	Drill Core	0.235	8.6	46	2.23	1029	0.380	7.54	1.896	3.06	0.5	13.6	17	0.4	12.5	3.3	0.1	4	17	60.8	1.1
3486426	Drill Core	0.252	9.9	67	2.72	1052	0.395	7.69	2.340	3.73	1.7	17.3	19	0.5	11.9	3.0	0.2	2	17	52.1	0.6
3486427	Drill Core	0.261	7.7	69	3.61	867	0.493	7.68	2.268	2.37	3.3	10.2	16	0.5	14.2	1.7	0.1	2	27	47.6	0.6

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486398	Drill Core	72.5	0.5	<0.05	<0.005	<1	0.6	<0.5	
3486399	Drill Core	80.7	0.3	0.06	0.060	1	<0.5	<0.5	
3486400	Rock Pulp	149.1	2.5	0.08	0.215	4	<0.5	1.0	
3486401	Drill Core	85.1	0.3	<0.05	<0.005	2	0.6	<0.5	
3486402	Drill Core	67.8	0.2	<0.05	<0.005	2	<0.5	<0.5	
3486403	Drill Core	83.2	0.4	<0.05	0.021	<1	<0.5	<0.5	
3486404	Drill Core	84.9	0.9	<0.05	0.022	2	0.7	<0.5	
3486405	Drill Core	94.7	0.4	<0.05	0.005	<1	0.7	<0.5	
3486406	Drill Core	85.6	0.3	<0.05	0.239	2	<0.5	<0.5	
3486407	Drill Core	37.9	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486408	Drill Core	25.6	0.5	<0.05	<0.005	<1	0.7	<0.5	
3486409	Drill Core	40.3	0.5	0.06	0.106	<1	0.6	<0.5	
3486410	Rock	0.2	<0.1	<0.05	<0.005	<1	2.6	<0.5	
3486411	Drill Core	73.3	0.5	0.07	0.017	<1	<0.5	<0.5	
3486412	Drill Core	57.1	0.6	<0.05	<0.005	1	<0.5	<0.5	
3486413	Drill Core	22.4	0.5	<0.05	<0.005	<1	0.6	<0.5	
3486414	Drill Core	54.3	0.5	0.06	<0.005	<1	0.7	<0.5	
3486415	Drill Core	74.8	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486416	Drill Core	40.5	0.6	<0.05	0.005	<1	0.6	<0.5	
3486417	Drill Core	36.1	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486418	Drill Core	40.2	0.4	<0.05	0.013	1	0.7	<0.5	
3486419	Drill Core	31.5	0.4	<0.05	0.015	1	<0.5	<0.5	
3486420	Rock Pulp	158.9	2.7	0.08	<0.005	1	<0.5	1.3	
3486421	Drill Core	25.5	0.5	<0.05	0.015	<1	<0.5	<0.5	
3486422	Drill Core	61.9	0.6	<0.05	0.010	1	<0.5	<0.5	
3486423	Drill Core	61.9	0.5	0.06	<0.005	<1	0.9	<0.5	
3486424	Drill Core	85.6	0.5	<0.05	0.005	1	0.6	<0.5	
3486425	Drill Core	96.2	0.4	<0.05	0.010	2	0.5	0.6	
3486426	Drill Core	115.9	0.5	<0.05	0.006	<1	<0.5	<0.5	
3486427	Drill Core	62.7	0.5	<0.05	<0.005	<1	<0.5	<0.5	

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	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486428	Drill Core	5.11	0.008	1.0	160.1	3.9	93	0.2	22.0	36.4	1656	7.55	7	0.3	0.5	923	0.1	1.0	<0.1	286	7.73
3486429	Drill Core	4.82	0.013	7.4	146.2	6.5	92	0.2	19.9	31.4	1383	7.03	7	0.4	0.7	703	0.1	0.9	<0.1	298	6.22
3486430	Rock	1.52	<0.005	<0.1	1.3	0.4	2	<0.1	<0.1	0.6	139	0.10	1	<0.1	<0.1	65	<0.1	<0.1	<0.1	1	30.68
3486431	Drill Core	5.25	0.012	1.0	234.8	4.3	104	0.2	25.0	39.1	1741	8.82	6	0.2	0.4	895	0.2	0.8	<0.1	271	8.45
3486432	Drill Core	4.78	0.006	2.1	98.2	4.3	95	<0.1	22.7	35.6	1661	8.58	5	0.5	1.6	905	0.1	0.9	<0.1	289	8.06
3486433	Drill Core	5.28	0.006	0.8	130.3	3.8	89	0.1	24.4	35.3	1623	8.09	5	0.2	0.4	1085	0.1	1.0	<0.1	300	7.95
3486434	Drill Core	5.52	0.008	0.9	180.0	4.9	97	0.4	25.7	40.1	1726	8.26	7	0.2	0.3	915	0.1	0.9	<0.1	271	8.26
3486435	Core DUP		0.009	0.9	189.6	5.3	100	0.3	26.8	41.0	1762	8.39	6	0.2	0.3	967	0.1	0.9	<0.1	286	8.25
3486436	Drill Core	2.71	0.010	0.7	190.9	3.4	76	0.2	25.3	36.2	1746	8.65	6	0.2	0.3	1210	0.1	0.9	<0.1	282	9.36
3486437	Drill Core	2.84	0.008	4.4	116.1	10.2	89	0.2	22.7	31.9	1504	7.19	5	0.3	0.3	916	0.2	0.6	<0.1	228	7.72
3486438	Drill Core	2.21	0.019	3.8	247.2	33.3	131	0.5	19.5	26.8	2145	6.04	14	2.3	1.4	290	0.7	0.6	0.4	428	7.55
3486439	Drill Core	5.07	0.008	2.9	236.3	4.1	107	0.3	34.2	44.6	1918	9.09	5	0.2	0.4	718	0.2	0.7	<0.1	405	8.42
3486440	Rock Pulp	0.13	0.668	334.2	5055.4	19.4	68	1.2	31.7	16.1	520	4.70	51	4.5	15.5	330	<0.1	3.0	1.3	107	2.50
3486441	Drill Core	5.35	0.009	1.0	231.8	4.1	110	0.3	34.9	45.0	1937	9.47	3	0.3	0.6	743	0.2	0.6	<0.1	414	8.10
3486442	Drill Core	4.66	0.006	1.2	208.0	5.6	104	0.2	24.4	38.0	1696	8.38	4	0.4	0.8	800	0.2	0.6	<0.1	367	7.18
3486443	Drill Core	5.15	0.007	0.7	298.6	6.3	103	0.3	30.5	41.8	1968	8.97	5	0.2	0.4	1138	0.4	1.0	<0.1	438	9.34
3486444	Drill Core	2.88	0.005	0.5	133.6	4.5	112	0.2	31.0	41.0	1799	9.48	4	0.2	0.5	972	0.2	0.8	<0.1	436	7.74
3486445	Drill Core	4.97	0.006	1.2	194.7	6.4	99	0.2	27.7	38.9	1533	8.01	5	0.2	0.3	1271	0.2	1.0	<0.1	374	7.51
3486446	Drill Core	4.86	<0.005	3.7	157.1	11.7	89	0.2	114.6	42.8	1390	6.57	3	1.1	1.4	457	0.1	0.3	0.1	244	6.04
3486447	Drill Core	4.43	<0.005	0.9	117.3	3.7	102	0.1	83.4	41.2	1676	7.81	3	0.5	0.9	1045	0.1	0.6	<0.1	287	6.68
3486448	Drill Core	3.54	0.005	1.1	201.3	5.5	90	0.2	25.9	34.5	1582	6.83	5	0.2	0.4	1762	0.1	1.2	<0.1	276	7.01
3486449	Drill Core	4.97	<0.005	1.3	167.6	4.7	93	0.2	139.9	43.4	1431	6.96	4	1.2	1.7	352	0.1	0.5	<0.1	251	5.19
3486450	Rock	1.30	<0.005	<0.1	1.1	0.4	2	<0.1	<0.1	0.6	132	0.09	1	0.1	<0.1	69	<0.1	<0.1	<0.1	1	31.64
3486451	Drill Core	5.32	<0.005	6.2	153.1	21.3	87	0.3	133.2	42.4	1423	6.79	3	1.1	1.2	360	0.3	0.5	0.2	257	5.97
3486452	Drill Core	5.22	<0.005	0.4	113.6	7.8	75	0.1	169.9	48.7	1428	7.06	3	1.1	1.4	330	0.1	0.4	<0.1	232	6.48
3486453	Drill Core	2.50	<0.005	12.3	137.1	6.5	85	0.2	141.2	41.5	1316	6.46	3	1.1	1.6	365	0.1	0.4	<0.1	280	5.30
3486454	Drill Core	3.51	<0.005	1.7	139.2	3.2	67	0.1	140.1	42.8	1359	7.08	3	0.9	1.7	848	<0.1	0.7	<0.1	242	6.30
3486455	Drill Core	4.55	0.012	4.9	194.8	3.6	123	0.2	26.2	45.8	2002	9.80	7	0.5	0.4	930	0.1	0.8	<0.1	400	8.41
3486456	Drill Core	5.35	0.007	1.0	152.5	2.8	117	0.2	25.6	41.3	1893	8.79	4	0.3	0.7	862	0.1	0.6	<0.1	336	8.09
3486457	Drill Core	5.27	0.012	1.5	180.6	3.5	116	0.2	23.5	38.6	1830	8.21	4	0.7	1.6	841	0.1	0.6	<0.1	300	7.89

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486428	Drill Core	0.282	8.3	69	3.61	625	0.490	7.62	1.865	1.72	0.5	13.4	17	0.8	15.4	1.7	0.1	<1	29	35.3	0.3
3486429	Drill Core	0.245	8.3	64	2.73	856	0.481	8.26	2.041	2.86	0.8	9.3	17	0.8	16.3	2.1	0.1	1	26	47.8	0.8
3486430	Rock	0.006	0.9	<1	2.67	8	0.004	0.04	0.031	<0.01	<0.1	0.9	<1	<0.1	1.6	<0.1	<0.1	<1	<1	0.9	<0.1
3486431	Drill Core	0.239	7.6	56	3.63	463	0.494	7.60	1.655	1.40	0.4	15.3	16	0.5	14.8	1.3	0.1	<1	29	28.5	0.2
3486432	Drill Core	0.153	6.6	55	3.22	390	0.499	7.39	2.021	0.92	0.4	19.5	14	0.7	13.7	2.3	0.2	<1	28	22.9	0.2
3486433	Drill Core	0.114	5.6	63	3.46	434	0.411	7.36	1.766	1.12	0.3	15.2	12	0.5	12.6	1.1	<0.1	<1	28	25.7	<0.1
3486434	Drill Core	0.119	5.1	74	3.82	399	0.417	7.28	1.642	0.99	1.8	14.6	11	0.5	13.1	1.0	<0.1	<1	30	25.6	0.3
3486435	Core DUP	0.123	5.6	81	3.84	432	0.438	7.55	1.675	1.02	1.2	15.2	12	0.5	13.5	1.0	<0.1	<1	32	27.2	0.3
3486436	Drill Core	0.112	5.1	75	3.82	387	0.449	7.51	1.368	1.10	0.4	18.4	12	0.5	14.2	1.0	<0.1	<1	33	22.0	<0.1
3486437	Drill Core	0.100	4.8	62	3.23	599	0.357	8.02	1.820	1.92	0.9	14.0	10	0.5	11.2	1.1	<0.1	<1	25	34.1	0.3
3486438	Drill Core	0.110	4.8	45	3.13	34	0.258	5.37	1.816	3.37	1.3	17.6	11	0.9	11.6	5.9	0.2	11	19	45.0	3.2
3486439	Drill Core	0.179	6.0	98	4.55	357	0.498	6.28	1.252	1.92	0.6	16.5	13	0.5	15.6	1.1	<0.1	<1	38	39.0	0.2
3486440	Rock Pulp	0.098	30.9	65	1.37	261	0.491	6.83	1.973	3.19	2.6	80.5	64	3.0	21.8	18.7	1.3	3	12	29.0	0.7
3486441	Drill Core	0.165	7.1	85	4.34	446	0.536	6.35	1.538	1.51	0.6	22.9	15	0.6	15.9	2.1	0.1	<1	36	33.0	0.2
3486442	Drill Core	0.173	7.7	55	3.40	781	0.537	7.40	2.054	1.85	0.6	17.3	16	0.6	15.2	3.0	0.2	<1	28	32.4	0.3
3486443	Drill Core	0.205	6.4	76	3.74	192	0.552	6.77	1.311	0.61	0.4	18.4	14	0.6	14.7	1.2	<0.1	<1	33	19.0	0.1
3486444	Drill Core	0.234	7.4	80	3.93	443	0.604	7.12	1.524	1.47	0.5	15.7	16	0.6	15.9	1.2	<0.1	<1	33	35.8	0.2
3486445	Drill Core	0.177	6.0	61	3.18	394	0.498	7.82	1.834	1.80	0.4	10.5	13	0.5	12.1	0.9	<0.1	<1	25	38.0	0.3
3486446	Drill Core	0.192	7.6	248	4.92	810	0.340	6.06	1.469	4.37	2.0	21.2	15	0.5	10.4	2.4	0.1	2	23	63.6	0.5
3486447	Drill Core	0.176	6.7	189	4.92	503	0.416	6.50	1.863	3.51	0.5	17.9	14	0.5	11.9	1.8	0.1	1	30	62.4	0.2
3486448	Drill Core	0.158	5.7	69	3.45	487	0.407	8.05	2.097	2.57	0.6	12.2	12	0.4	11.9	1.2	<0.1	<1	26	53.5	0.2
3486449	Drill Core	0.209	8.8	327	5.69	701	0.340	6.47	2.012	4.02	0.4	26.6	17	0.5	10.7	2.6	0.1	2	26	84.7	0.4
3486450	Rock	0.006	1.0	2	2.19	14	0.005	0.06	0.029	0.02	<0.1	1.8	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.2	<0.1
3486451	Drill Core	0.161	7.1	334	5.70	778	0.317	5.82	1.410	4.27	0.3	21.4	13	0.5	9.9	1.9	0.1	3	26	72.4	0.7
3486452	Drill Core	0.168	7.0	425	6.35	725	0.302	5.46	0.961	4.12	0.2	25.2	14	0.4	10.0	2.1	0.1	2	26	70.8	0.1
3486453	Drill Core	0.183	8.6	333	5.43	1148	0.399	6.37	1.240	4.08	0.6	20.5	17	0.6	10.6	2.7	0.1	2	24	72.4	0.3
3486454	Drill Core	0.208	8.3	308	5.51	1096	0.346	6.27	1.612	3.23	0.9	22.3	16	0.5	10.3	2.5	0.1	1	24	51.5	0.1
3486455	Drill Core	0.155	5.9	60	4.01	385	0.585	7.04	1.682	1.08	0.6	16.2	13	0.6	15.6	1.5	<0.1	<1	36	28.3	0.7
3486456	Drill Core	0.212	7.2	64	3.86	554	0.507	7.49	1.901	1.30	0.4	16.7	16	0.6	15.5	2.0	0.1	<1	31	25.3	0.6
3486457	Drill Core	0.172	7.1	61	3.62	520	0.470	7.59	2.282	1.15	0.4	16.9	15	0.8	16.0	3.6	0.2	<1	30	25.7	0.6

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486428	Drill Core	52.9	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486429	Drill Core	74.8	0.4	<0.05	0.024	1	<0.5	<0.5	
3486430	Rock	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
3486431	Drill Core	38.5	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486432	Drill Core	24.0	0.7	<0.05	0.005	<1	<0.5	<0.5	
3486433	Drill Core	29.9	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486434	Drill Core	25.6	0.6	0.05	<0.005	<1	<0.5	<0.5	
3486435	Core DUP	26.6	0.7	0.05	<0.005	<1	<0.5	<0.5	
3486436	Drill Core	28.2	0.8	0.05	<0.005	<1	<0.5	<0.5	
3486437	Drill Core	55.7	0.6	<0.05	0.006	<1	<0.5	<0.5	
3486438	Drill Core	93.6	0.6	<0.05	0.025	4	<0.5	<0.5	
3486439	Drill Core	73.3	0.7	0.05	0.006	<1	<0.5	<0.5	
3486440	Rock Pulp	175.0	2.3	0.09	0.216	3	<0.5	0.9	
3486441	Drill Core	49.7	0.8	0.05	<0.005	<1	<0.5	<0.5	
3486442	Drill Core	50.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486443	Drill Core	19.2	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486444	Drill Core	44.9	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486445	Drill Core	61.2	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486446	Drill Core	156.3	0.6	<0.05	0.007	<1	<0.5	0.6	
3486447	Drill Core	133.8	0.6	<0.05	<0.005	<1	<0.5	0.6	
3486448	Drill Core	97.1	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486449	Drill Core	156.8	0.8	<0.05	<0.005	<1	<0.5	0.7	
3486450	Rock	0.5	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
3486451	Drill Core	150.0	0.6	<0.05	0.006	<1	<0.5	0.7	
3486452	Drill Core	152.3	0.8	<0.05	<0.005	<1	<0.5	0.7	
3486453	Drill Core	151.0	0.6	<0.05	0.040	<1	<0.5	0.7	
3486454	Drill Core	114.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486455	Drill Core	33.8	0.7	0.06	<0.005	1	<0.5	<0.5	
3486456	Drill Core	36.7	0.7	0.05	<0.005	1	<0.5	<0.5	
3486457	Drill Core	34.2	0.7	0.05	<0.005	<1	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486458	Drill Core	4.96	0.014	3.7	380.1	3.0	151	0.4	27.6	42.8	2159	10.08	4	0.3	0.5	893	0.2	0.6	<0.1	338	8.52
3486459	Drill Core	5.05	0.011	12.5	129.5	3.0	129	0.5	26.4	41.7	2207	9.58	5	0.6	0.7	775	0.1	0.6	<0.1	362	8.28
3486460	Rock Pulp	0.13	0.223	100.2	2827.7	21.1	83	0.4	62.3	16.1	558	4.50	18	4.9	19.1	318	<0.1	2.1	0.7	117	2.61
3486461	Drill Core	5.61	0.008	3.5	150.0	2.6	126	0.2	24.5	37.1	1998	8.80	5	0.3	0.8	893	0.2	0.6	<0.1	353	9.17
3486462	Drill Core	5.54	0.007	2.3	202.3	2.8	134	0.2	27.5	42.1	2109	9.34	6	0.2	0.5	1003	0.2	0.6	<0.1	395	9.83
3486463	Drill Core	5.67	0.010	1.4	122.9	3.2	141	0.2	27.3	43.0	2026	9.39	8	0.3	0.4	811	0.2	0.5	<0.1	382	8.94
3486464	Drill Core	5.44	0.011	3.5	168.2	6.1	130	0.2	25.7	40.2	1883	8.55	7	1.1	0.5	747	0.2	0.4	<0.1	376	8.88
3486465	Drill Core	5.51	0.008	4.8	137.7	4.7	114	0.2	25.9	43.8	1813	8.76	8	0.4	0.4	931	0.2	0.6	<0.1	361	8.48
3486466	Drill Core	5.47	0.007	0.6	116.4	6.3	124	0.2	27.8	46.0	1812	10.17	6	0.4	0.5	985	0.3	0.8	<0.1	416	8.80
3486467	Drill Core	4.68	0.015	40.1	129.7	58.3	106	0.4	26.7	41.7	1178	7.81	13	1.9	0.5	445	0.3	1.1	0.7	393	5.61
3486468	Drill Core	4.75	0.016	16.2	301.4	63.4	67	0.5	18.0	29.8	981	5.14	11	2.7	0.3	292	0.5	0.7	1.0	342	5.25
3486469	Drill Core	2.30	0.012	8.0	20.3	12.2	37	<0.1	4.7	7.5	433	1.88	9	0.7	0.2	148	0.1	0.7	0.2	185	1.88
3486470	Rock	1.41	<0.005	<0.1	0.2	0.5	3	<0.1	0.3	0.2	131	0.11	2	<0.1	<0.1	85	<0.1	<0.1	<0.1	2	34.47
3486471	Drill Core	5.06	0.014	23.0	188.4	36.3	119	0.4	24.7	33.6	1522	7.03	11	2.3	0.3	193	0.5	0.8	0.5	359	7.29
3486472	Drill Core	3.49	0.006	0.2	123.0	6.1	122	0.1	33.0	45.3	1724	10.53	4	0.4	0.3	535	0.3	0.7	<0.1	455	8.17
3486473	Drill Core	4.00	<0.005	1.3	71.8	5.1	127	0.1	49.2	53.0	2352	13.28	4	0.4	0.5	273	0.3	0.7	<0.1	553	10.22
3486474	Drill Core	3.10	0.006	1.3	243.2	14.7	113	0.3	40.3	46.0	1840	10.88	4	0.4	0.3	1117	0.4	1.1	<0.1	488	8.82
3486475	Core DUP		0.007	1.4	250.6	16.0	113	0.3	41.3	49.8	1916	11.41	5	0.3	0.3	1112	0.5	1.1	<0.1	495	8.83
3486476	Drill Core	2.93	<0.005	1.9	77.5	2.7	130	<0.1	49.4	58.5	2310	13.68	4	0.3	0.4	293	0.2	0.7	<0.1	562	10.67
3486477	Drill Core	2.79	<0.005	0.5	73.7	4.1	114	<0.1	42.1	50.3	2266	12.04	5	0.6	0.4	152	0.3	0.5	<0.1	498	10.63
3486478	Drill Core	4.95	0.008	1.0	235.7	27.6	141	0.3	43.8	45.0	1813	10.18	4	1.3	0.4	241	0.5	0.6	0.2	491	8.08
3486479	Drill Core	5.32	0.007	0.5	150.7	12.5	186	0.2	36.4	45.6	2007	11.01	4	0.5	0.3	213	0.7	0.8	<0.1	482	9.60
3486480	Rock Pulp	0.11	1.288	258.9	>10000	19.5	95	2.3	21.3	12.0	714	5.00	6	1.0	3.8	451	0.8	2.9	0.3	89	1.98
3486481	Drill Core	4.51	<0.005	1.6	71.9	7.3	152	<0.1	43.2	45.3	2093	12.83	4	0.4	0.3	465	0.3	1.3	<0.1	538	9.77
3486482	Drill Core	5.18	<0.005	1.4	105.3	4.9	154	<0.1	49.3	52.2	2403	13.32	3	0.2	0.3	331	0.3	1.0	<0.1	575	10.77
3486483	Drill Core	5.14	0.009	0.8	183.6	4.4	129	0.2	45.0	51.3	2167	11.55	4	1.0	0.4	232	0.3	1.0	<0.1	569	10.27
3486484	Drill Core	2.42	0.009	0.6	275.9	7.3	153	0.3	41.6	41.2	1963	10.17	4	0.7	0.3	341	0.3	0.9	<0.1	479	8.91
3486485	Drill Core	4.08	0.012	0.6	162.8	5.0	124	0.2	42.3	44.5	1848	10.67	5	0.2	0.3	553	0.3	1.3	<0.1	461	8.01
3486486	Drill Core	4.29	0.009	0.9	292.9	4.5	125	0.3	40.5	49.9	1887	12.14	5	0.3	0.3	347	0.4	1.2	<0.1	524	8.88
3486487	Drill Core	5.07	0.019	29.6	124.2	136.0	138	0.6	17.7	24.8	991	5.46	11	4.5	0.4	289	3.3	0.9	1.4	523	6.12

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486458	Drill Core	0.170	7.1	66	3.95	531	0.550	7.26	1.729	1.25	0.4	19.0	15	0.8	17.3	1.4	<0.1	<1	33	23.9	0.2
3486459	Drill Core	0.258	8.2	70	4.03	522	0.557	7.07	1.943	1.31	0.5	21.9	18	0.7	18.2	2.2	0.1	<1	34	26.8	0.4
3486460	Rock Pulp	0.097	34.4	89	1.51	1038	0.486	6.88	2.086	2.54	5.5	72.3	69	3.1	24.0	17.6	1.3	3	14	34.4	0.3
3486461	Drill Core	0.235	6.7	63	3.98	532	0.540	7.87	1.880	1.25	0.4	16.3	15	0.5	17.6	1.7	0.1	<1	34	26.7	0.1
3486462	Drill Core	0.234	6.7	67	4.04	464	0.592	7.67	1.641	1.32	0.4	20.7	16	0.6	17.9	1.4	<0.1	<1	37	26.2	0.2
3486463	Drill Core	0.246	6.6	66	4.05	458	0.585	7.64	1.535	1.97	0.4	15.6	15	0.5	17.0	1.1	<0.1	<1	33	39.9	0.3
3486464	Drill Core	0.227	6.7	61	3.56	578	0.526	7.55	1.924	2.17	0.4	13.7	15	0.3	16.1	1.5	<0.1	2	31	47.7	0.9
3486465	Drill Core	0.233	6.3	63	3.91	441	0.520	7.53	1.691	1.73	0.4	14.2	14	0.5	16.1	1.3	<0.1	<1	33	42.5	0.8
3486466	Drill Core	0.271	6.6	68	4.41	390	0.606	7.26	1.583	1.77	0.4	16.3	16	0.6	18.9	1.3	<0.1	1	37	44.3	1.2
3486467	Drill Core	0.245	5.4	47	3.38	94	0.519	6.91	1.522	4.20	0.9	10.5	13	1.0	13.9	3.2	<0.1	5	31	51.8	3.5
3486468	Drill Core	0.189	5.0	61	2.05	115	0.455	6.74	2.260	4.02	1.9	11.2	10	1.3	12.9	3.0	<0.1	6	26	19.2	3.1
3486469	Drill Core	0.108	1.6	44	0.85	132	0.269	5.46	1.507	3.96	1.1	5.8	3	2.3	5.6	1.6	<0.1	4	9	19.8	1.0
3486470	Rock	0.006	1.1	<1	2.33	15	0.005	0.06	0.030	0.02	<0.1	1.5	1	<0.1	2.3	<0.1	<0.1	<1	<1	1.0	<0.1
3486471	Drill Core	0.096	3.3	53	3.53	53	0.431	5.18	1.243	3.47	0.8	16.3	7	1.2	10.9	2.6	<0.1	6	31	43.0	2.8
3486472	Drill Core	0.040	3.0	63	4.15	454	0.637	6.09	1.137	2.99	0.4	14.9	7	0.4	12.8	1.4	<0.1	3	41	70.0	1.0
3486473	Drill Core	0.181	4.7	139	5.97	175	0.726	3.07	0.839	1.57	0.3	28.1	13	0.8	21.7	1.6	<0.1	1	62	42.1	0.1
3486474	Drill Core	0.049	3.3	67	4.43	372	0.641	6.50	1.055	2.48	0.3	20.7	8	0.6	15.0	1.7	<0.1	2	47	51.1	0.2
3486475	Core DUP	0.051	3.3	70	4.59	378	0.649	6.63	1.114	2.50	0.2	20.8	8	0.6	15.4	1.8	<0.1	2	49	50.6	0.2
3486476	Drill Core	0.126	4.3	128	5.79	167	0.778	3.31	0.780	1.56	0.3	27.8	12	0.6	20.6	1.4	<0.1	1	61	39.6	0.1
3486477	Drill Core	0.126	4.0	104	5.71	175	0.708	2.41	0.608	1.53	0.2	24.3	11	0.7	20.8	1.4	<0.1	2	61	42.4	0.5
3486478	Drill Core	0.067	4.0	92	4.55	443	0.613	4.94	0.985	3.35	0.5	16.0	9	0.6	14.6	4.3	<0.1	4	45	63.5	1.0
3486479	Drill Core	0.102	3.7	80	4.50	301	0.654	4.70	1.189	2.57	1.0	13.4	9	0.5	16.2	1.9	<0.1	4	47	63.4	0.5
3486480	Rock Pulp	0.071	11.4	40	0.88	117	0.285	7.33	2.590	1.99	2.0	31.9	25	2.4	12.6	5.9	0.3	1	10	17.1	1.2
3486481	Drill Core	0.097	3.6	91	4.93	238	0.751	4.39	0.985	1.68	0.8	18.7	9	0.6	17.6	1.2	<0.1	2	54	36.2	0.2
3486482	Drill Core	0.075	3.0	84	5.71	134	0.752	3.42	0.602	1.17	0.5	20.9	9	0.6	17.9	0.9	<0.1	1	61	31.7	<0.1
3486483	Drill Core	0.172	4.2	94	5.10	191	0.673	3.55	1.057	1.71	0.6	18.0	11	0.9	18.9	1.6	<0.1	4	59	35.6	1.0
3486484	Drill Core	0.168	4.0	67	4.50	398	0.621	5.73	1.158	2.54	0.8	15.6	10	0.5	15.4	0.9	<0.1	2	47	62.7	1.1
3486485	Drill Core	0.225	4.9	46	4.39	262	0.639	6.65	1.255	2.46	0.5	10.6	12	0.5	15.7	0.9	<0.1	<1	41	57.3	<0.1
3486486	Drill Core	0.155	4.3	86	4.88	227	0.722	4.82	0.951	2.38	0.7	13.7	11	0.5	17.3	1.4	<0.1	1	50	53.2	0.6
3486487	Drill Core	0.084	2.7	39	2.18	75	0.467	4.81	1.172	4.22	2.1	16.3	6	1.3	9.0	8.2	<0.1	9	23	29.1	3.7

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486458	Drill Core	33.8	0.9	0.06	<0.005	<1	<0.5	<0.5	
3486459	Drill Core	38.0	0.8	0.06	<0.005	<1	<0.5	<0.5	
3486460	Rock Pulp	211.5	2.2	0.07	<0.005	2	<0.5	1.0	
3486461	Drill Core	33.2	0.7	0.09	<0.005	<1	0.6	<0.5	
3486462	Drill Core	34.2	0.8	<0.05	0.006	<1	0.6	<0.5	
3486463	Drill Core	61.1	0.7	0.07	<0.005	<1	0.5	<0.5	
3486464	Drill Core	78.1	0.7	<0.05	0.007	2	1.0	<0.5	
3486465	Drill Core	50.2	0.7	<0.05	0.005	<1	1.1	<0.5	
3486466	Drill Core	57.3	0.8	0.08	<0.005	2	0.8	<0.5	
3486467	Drill Core	101.0	0.4	<0.05	0.119	2	<0.5	0.6	
3486468	Drill Core	64.3	0.5	<0.05	0.068	4	<0.5	<0.5	
3486469	Drill Core	53.3	0.2	<0.05	0.064	5	<0.5	<0.5	
3486470	Rock	0.6	<0.1	<0.05	<0.005	<1	2.5	<0.5	
3486471	Drill Core	84.7	0.5	<0.05	0.078	3	0.8	<0.5	
3486472	Drill Core	104.2	0.8	<0.05	<0.005	1	<0.5	0.6	
3486473	Drill Core	57.9	1.3	0.09	0.005	<1	1.2	<0.5	
3486474	Drill Core	81.2	0.9	0.13	0.019	<1	0.6	<0.5	
3486475	Core DUP	82.1	1.0	<0.05	0.026	1	0.9	<0.5	
3486476	Drill Core	59.7	1.3	<0.05	0.014	<1	1.4	<0.5	
3486477	Drill Core	60.4	1.2	0.10	<0.005	<1	1.1	<0.5	
3486478	Drill Core	108.2	0.8	0.06	0.009	<1	1.1	0.6	
3486479	Drill Core	98.5	0.7	<0.05	<0.005	<1	1.2	0.6	
3486480	Rock Pulp	49.2	1.0	0.08	0.181	3	<0.5	<0.5	1.36
3486481	Drill Core	52.7	0.9	0.08	0.013	<1	1.5	<0.5	
3486482	Drill Core	38.8	1.3	0.12	0.009	<1	1.4	<0.5	
3486483	Drill Core	54.3	0.9	<0.05	0.005	2	0.9	<0.5	
3486484	Drill Core	84.5	0.6	0.06	0.006	<1	0.7	<0.5	
3486485	Drill Core	92.3	0.5	<0.05	0.009	<1	<0.5	0.5	
3486486	Drill Core	86.4	0.7	0.06	0.011	<1	0.7	<0.5	
3486487	Drill Core	63.9	0.5	<0.05	0.064	3	0.6	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486488	Drill Core	5.16	0.009	2.3	182.9	27.4	157	0.3	38.5	45.5	1855	11.08	11	1.0	0.4	303	0.4	1.4	0.2	530	8.97
3486489	Drill Core	4.79	0.080	16.3	143.6	151.2	240	0.7	18.1	23.9	1183	5.26	7	2.7	0.6	369	7.0	1.0	1.3	392	7.07
3486490	Rock	1.31	<0.005	<0.1	2.4	0.4	3	<0.1	0.4	0.2	139	0.13	2	<0.1	<0.1	80	<0.1	0.1	<0.1	2	31.69
3486491	Drill Core	4.11	0.007	1.4	180.7	3.7	120	0.2	38.2	46.1	1914	12.25	5	0.7	0.3	202	0.4	1.3	<0.1	536	8.24
3486492	Drill Core	4.06	0.010	2.3	343.8	59.7	158	0.5	27.1	45.8	2026	9.78	9	1.6	0.4	566	2.0	1.4	0.4	610	9.10
3486493	Drill Core	5.49	0.031	2.6	296.5	53.3	390	0.5	21.0	42.3	2268	9.15	15	1.8	0.4	442	4.7	1.6	0.3	504	7.83
3486494	Drill Core	5.35	0.014	5.8	288.1	144.7	188	0.8	18.7	38.8	2011	8.58	14	3.4	0.6	378	1.8	1.9	1.4	585	6.49
3486495	Drill Core	4.99	0.014	0.8	148.3	35.7	111	0.3	24.0	39.6	2245	9.16	10	1.0	0.3	290	0.3	1.7	0.3	477	7.14
3486496	Drill Core	5.12	0.021	3.7	187.8	20.5	178	0.3	26.6	41.7	2602	8.63	37	1.4	0.4	257	0.5	2.2	0.3	465	7.79
3486497	Drill Core	5.01	0.016	1.4	238.2	148.0	288	0.8	20.2	34.0	1889	6.98	26	1.7	0.3	217	4.2	2.3	1.2	416	6.14
3486498	Drill Core	4.38	0.013	2.0	175.9	152.6	170	0.8	14.2	23.8	1174	5.24	7	2.4	0.4	179	2.2	2.2	1.3	451	4.31
3486499	Drill Core	5.36	0.011	0.7	320.0	17.1	159	0.4	38.5	57.1	1827	12.55	3	1.3	0.3	414	0.3	2.7	0.1	668	9.18
3486500	Rock Pulp	0.11	1.482	261.5	>10000	22.3	99	2.5	24.5	12.6	711	4.89	8	1.1	3.6	414	0.4	2.6	0.4	90	1.93
3486501	Drill Core	5.09	0.009	1.3	158.3	12.2	108	0.2	14.9	37.0	1270	7.57	3	0.6	0.8	572	0.2	2.3	<0.1	401	7.00
3486502	Drill Core	5.11	0.012	1.4	212.5	16.0	132	0.3	24.3	43.0	1561	8.85	4	1.6	0.7	603	0.7	2.5	0.2	458	8.49
3486503	Drill Core	5.17	0.008	7.9	374.0	22.5	131	0.5	27.9	49.7	1699	10.15	2	1.3	0.4	467	0.4	1.5	0.2	503	8.71

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299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486488	Drill Core	0.135	3.9	94	4.27	105	0.801	4.19	0.997	2.78	0.7	13.2	10	1.0	16.9	1.9	<0.1	4	50	53.2	2.5
3486489	Drill Core	0.116	3.6	90	2.63	87	0.666	4.78	1.533	3.71	3.6	17.3	7	1.8	9.9	3.3	<0.1	6	30	23.8	2.4
3486490	Rock	0.008	1.1	1	3.10	13	0.006	0.06	0.034	0.02	<0.1	1.3	<1	<0.1	2.2	<0.1	<0.1	<1	<1	1.6	<0.1
3486491	Drill Core	0.158	3.9	99	5.23	183	0.732	3.37	0.859	1.89	0.8	15.6	11	0.6	18.0	1.0	<0.1	2	54	27.4	0.9
3486492	Drill Core	0.193	4.6	58	3.72	201	0.596	4.45	0.575	2.74	1.4	11.1	11	0.6	15.3	3.4	<0.1	6	38	38.8	2.3
3486493	Drill Core	0.147	4.4	34	3.60	76	0.573	5.21	0.605	3.84	0.4	9.3	10	0.6	13.0	2.3	<0.1	6	34	68.3	3.6
3486494	Drill Core	0.172	5.9	27	3.65	96	0.499	4.83	0.636	3.48	0.4	12.4	12	1.0	12.2	6.9	<0.1	10	29	66.1	4.0
3486495	Drill Core	0.103	3.7	40	4.11	332	0.545	5.24	0.702	2.90	0.4	7.0	8	0.5	11.6	2.1	<0.1	3	34	55.4	1.6
3486496	Drill Core	0.104	4.4	47	3.98	189	0.495	4.92	0.403	3.50	0.3	8.6	9	0.6	11.3	1.7	0.2	4	36	79.5	3.2
3486497	Drill Core	0.137	5.9	31	3.19	92	0.326	4.61	0.474	3.89	0.8	5.2	10	0.6	10.3	1.7	0.1	7	28	92.6	3.6
3486498	Drill Core	0.088	3.5	19	1.59	89	0.199	3.33	0.182	3.72	5.1	4.2	6	0.8	6.5	4.6	<0.1	6	18	50.4	3.0
3486499	Drill Core	0.146	4.7	55	3.15	295	0.563	4.41	0.613	3.76	2.5	6.6	10	0.6	12.3	1.3	0.1	3	45	70.7	1.2
3486500	Rock Pulp	0.069	12.3	41	0.86	167	0.279	6.90	2.576	1.86	1.9	34.6	24	2.5	11.6	5.8	0.4	1	11	15.1	1.2
3486501	Drill Core	0.180	7.5	13	2.51	715	0.375	7.71	1.113	4.50	0.3	6.3	15	0.4	10.7	1.3	0.2	2	24	83.2	0.9
3486502	Drill Core	0.117	5.3	35	2.72	172	0.417	5.51	0.723	4.38	1.5	8.5	11	0.7	11.5	2.4	0.1	4	34	59.4	2.1
3486503	Drill Core	0.282	6.6	45	3.85	337	0.595	5.19	0.995	2.26	0.4	11.4	14	0.7	15.3	2.9	0.1	2	38	51.7	0.9

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BUREAU VERITAS
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Bureau Veritas Commodities Canada Ltd.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

CERTIFICATE OF ANALYSIS VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486488	Drill Core	101.1	0.8	0.09	0.006	3	1.0	0.7	
3486489	Drill Core	67.5	0.8	<0.05	0.040	3	1.1	<0.5	
3486490	Rock	<0.1	<0.1	<0.05	<0.005	<1	2.0	<0.5	
3486491	Drill Core	72.4	0.9	0.05	0.009	<1	1.4	<0.5	
3486492	Drill Core	121.4	0.5	0.06	0.008	2	0.5	0.8	
3486493	Drill Core	139.2	0.4	0.06	0.017	3	0.8	0.9	
3486494	Drill Core	119.4	0.5	<0.05	0.017	6	0.6	0.8	
3486495	Drill Core	98.5	0.4	<0.05	0.008	<1	0.6	0.6	
3486496	Drill Core	131.8	0.4	0.08	0.011	4	<0.5	0.9	
3486497	Drill Core	120.7	0.3	<0.05	0.007	4	<0.5	0.8	
3486498	Drill Core	71.2	0.2	<0.05	0.009	4	<0.5	<0.5	
3486499	Drill Core	118.9	0.3	0.07	<0.005	2	<0.5	0.7	
3486500	Rock Pulp	41.7	1.1	0.13	0.154	3	<0.5	<0.5	1.36
3486501	Drill Core	109.2	0.3	<0.05	<0.005	2	<0.5	0.7	
3486502	Drill Core	109.1	0.3	0.06	0.009	3	<0.5	0.6	
3486503	Drill Core	94.1	0.5	0.06	<0.005	2	<0.5	0.8	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3486317	Drill Core	3.48	0.012	2.1	82.6	16.3	113	0.2	4.8	12.7	889	5.05	3	1.5	4.2	288	0.4	0.7	<0.1	105	0.74
REP 3486317	QC			2.3	82.5	16.4	112	0.2	5.1	13.1	893	5.09	3	1.5	4.5	289	0.4	0.7	<0.1	106	0.75
3486352	Drill Core	5.37	0.008	3.9	109.2	29.8	97	0.2	4.7	13.8	1148	4.33	4	1.5	3.8	416	0.3	0.7	0.2	111	2.72
REP 3486352	QC		0.006																		
3486353	Drill Core	4.24	0.009	2.6	92.1	11.1	96	<0.1	4.5	13.6	1089	4.18	3	1.5	3.7	355	0.1	0.5	<0.1	100	2.44
REP 3486353	QC			2.8	91.5	11.8	100	<0.1	4.9	13.5	1109	4.28	3	1.7	3.7	361	0.1	0.6	<0.1	103	2.52
3486375	Drill Core	2.51	0.010	2.3	273.6	6.2	148	0.2	24.2	37.8	2153	8.99	5	0.8	1.9	585	0.3	1.7	<0.1	448	8.64
REP 3486375	QC		0.006																		
3486388	Drill Core	4.73	0.009	2.1	190.6	2.5	96	0.2	19.1	37.1	1433	7.47	6	0.3	0.5	520	0.1	1.3	<0.1	300	7.32
REP 3486388	QC			2.0	186.3	2.6	97	0.2	19.3	37.3	1453	7.40	5	0.3	0.5	527	<0.1	1.3	<0.1	296	7.26
3486423	Drill Core	5.41	0.006	1.0	148.3	6.9	99	0.2	17.3	33.9	1516	8.00	8	0.5	0.6	1147	<0.1	1.0	<0.1	350	7.71
REP 3486423	QC			1.0	144.8	6.8	98	0.2	16.9	33.2	1494	7.88	8	0.4	0.6	1152	0.2	1.0	<0.1	345	7.60
3486427	Drill Core	2.68	0.007	0.8	209.6	3.7	112	0.2	23.6	36.3	1580	7.50	6	0.4	0.4	710	0.2	1.2	<0.1	296	6.63
REP 3486427	QC		0.007																		
3486450	Rock	1.30	<0.005	<0.1	1.1	0.4	2	<0.1	<0.1	0.6	132	0.09	1	0.1	<0.1	69	<0.1	<0.1	<0.1	1	31.64
REP 3486450	QC		<0.005																		
3486458	Drill Core	4.96	0.014	3.7	380.1	3.0	151	0.4	27.6	42.8	2159	10.08	4	0.3	0.5	893	0.2	0.6	<0.1	338	8.52
REP 3486458	QC			3.9	384.9	3.0	151	0.4	27.6	43.8	2184	10.17	4	0.3	0.5	898	0.2	0.7	<0.1	340	8.67
3486480	Rock Pulp	0.11	1.288	258.9	>10000	19.5	95	2.3	21.3	12.0	714	5.00	6	1.0	3.8	451	0.8	2.9	0.3	89	1.98
REP 3486480	QC																				
3486493	Drill Core	5.49	0.031	2.6	296.5	53.3	390	0.5	21.0	42.3	2268	9.15	15	1.8	0.4	442	4.7	1.6	0.3	504	7.83
REP 3486493	QC			2.9	285.7	54.6	381	0.5	19.6	41.5	2216	8.93	14	1.7	0.4	440	4.5	1.7	0.3	498	7.66
3486502	Drill Core	5.11	0.012	1.4	212.5	16.0	132	0.3	24.3	43.0	1561	8.85	4	1.6	0.7	603	0.7	2.5	0.2	458	8.49
REP 3486502	QC		0.012																		
Core Reject Duplicates																					
3486374	Drill Core	4.45	<0.005	8.3	79.7	6.9	80	<0.1	5.3	15.4	1086	4.37	5	1.5	3.5	526	0.1	0.9	<0.1	134	3.80
DUP 3486374	QC		<0.005	8.5	84.6	7.1	83	<0.1	5.3	14.7	1112	4.43	5	1.5	3.3	533	0.2	0.9	<0.1	134	4.00
3486408	Drill Core	5.16	0.009	0.8	279.3	5.3	103	0.3	22.3	35.0	1515	7.08	6	0.3	0.7	1090	0.3	2.4	<0.1	377	7.21

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3486317	Drill Core	0.176	13.8	6	0.93	1342	0.229	9.29	3.105	5.82	0.7	11.0	29	0.9	17.2	7.7	0.5	2	8	31.4	<0.1
REP 3486317	QC	0.182	13.9	6	0.94	1379	0.237	9.39	3.147	5.90	0.8	11.1	28	0.8	17.8	8.0	0.5	2	8	31.3	<0.1
3486352	Drill Core	0.162	9.6	6	0.99	970	0.334	8.49	3.223	5.12	0.9	14.3	19	1.2	16.1	11.8	0.7	2	7	27.7	0.6
REP 3486352	QC																				
3486353	Drill Core	0.147	9.2	7	0.93	1121	0.319	8.19	3.225	4.93	0.9	13.9	18	1.1	14.7	11.8	0.6	2	7	28.8	0.4
REP 3486353	QC	0.160	9.0	7	0.96	1103	0.329	8.38	3.322	4.99	0.8	15.0	18	1.1	16.3	12.3	0.7	2	7	26.4	0.4
3486375	Drill Core	0.105	7.0	44	3.23	586	0.647	7.40	1.793	1.96	0.7	18.3	15	1.0	17.7	4.6	0.3	2	36	34.5	0.2
REP 3486375	QC																				
3486388	Drill Core	0.186	7.0	45	2.95	540	0.430	7.71	2.365	2.22	1.1	11.9	14	0.7	13.6	1.8	0.1	<1	24	36.3	1.4
REP 3486388	QC	0.181	6.6	49	2.96	575	0.431	7.78	2.404	2.20	1.2	12.5	14	0.6	14.0	1.8	0.1	<1	25	34.9	1.4
3486423	Drill Core	0.200	7.5	67	2.91	738	0.493	8.50	2.013	1.99	0.3	11.0	16	0.4	14.3	2.4	0.1	1	24	39.6	0.3
REP 3486423	QC	0.200	7.7	65	2.88	744	0.485	8.40	1.988	1.98	0.3	12.4	16	0.4	14.0	2.3	0.1	1	24	38.4	0.3
3486427	Drill Core	0.261	7.7	69	3.61	867	0.493	7.68	2.268	2.37	3.3	10.2	16	0.5	14.2	1.7	0.1	2	27	47.6	0.6
REP 3486427	QC																				
3486450	Rock	0.006	1.0	2	2.19	14	0.005	0.06	0.029	0.02	<0.1	1.8	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.2	<0.1
REP 3486450	QC																				
3486458	Drill Core	0.170	7.1	66	3.95	531	0.550	7.26	1.729	1.25	0.4	19.0	15	0.8	17.3	1.4	<0.1	<1	33	23.9	0.2
REP 3486458	QC	0.172	7.1	66	4.00	529	0.555	7.36	1.754	1.26	0.4	19.1	15	0.8	17.4	1.4	<0.1	<1	33	24.2	0.2
3486480	Rock Pulp	0.071	11.4	40	0.88	117	0.285	7.33	2.590	1.99	2.0	31.9	25	2.4	12.6	5.9	0.3	1	10	17.1	1.2
REP 3486480	QC																				
3486493	Drill Core	0.147	4.4	34	3.60	76	0.573	5.21	0.605	3.84	0.4	9.3	10	0.6	13.0	2.3	<0.1	6	34	68.3	3.6
REP 3486493	QC	0.142	4.3	34	3.52	67	0.558	5.11	0.598	3.47	0.5	10.5	10	0.6	13.1	2.3	<0.1	5	33	65.0	3.6
3486502	Drill Core	0.117	5.3	35	2.72	172	0.417	5.51	0.723	4.38	1.5	8.5	11	0.7	11.5	2.4	0.1	4	34	59.4	2.1
REP 3486502	QC																				
Core Reject Duplicates																					
3486374	Drill Core	0.204	8.3	4	1.12	1235	0.325	8.47	3.337	3.09	0.5	20.6	19	0.9	15.7	9.1	0.6	3	7	25.5	0.1
DUP 3486374	QC	0.207	7.6	4	1.14	1276	0.335	8.57	3.414	2.89	0.5	19.8	18	1.0	14.9	8.9	0.6	2	8	26.0	0.1
3486408	Drill Core	0.280	8.4	72	3.47	934	0.397	8.30	1.995	1.39	0.3	12.5	18	0.3	15.8	2.3	0.1	<1	26	27.7	0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
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Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
Pulp Duplicates									
3486317	Drill Core	145.2	0.4	0.06	<0.005	<1	<0.5	<0.5	
REP 3486317	QC	146.2	0.5	0.06	<0.005	<1	<0.5	<0.5	
3486352	Drill Core	113.9	0.6	<0.05	0.008	<1	<0.5	<0.5	
REP 3486352	QC								
3486353	Drill Core	107.4	0.5	<0.05	0.005	<1	<0.5	<0.5	
REP 3486353	QC	111.3	0.4	<0.05	0.010	1	<0.5	<0.5	
3486375	Drill Core	54.0	1.0	0.06	<0.005	<1	0.9	<0.5	
REP 3486375	QC								
3486388	Drill Core	72.0	0.6	0.07	<0.005	1	0.8	<0.5	
REP 3486388	QC	73.6	0.9	0.06	<0.005	<1	<0.5	<0.5	
3486423	Drill Core	61.9	0.5	0.06	<0.005	<1	0.9	<0.5	
REP 3486423	QC	62.3	0.5	<0.05	0.005	<1	0.7	<0.5	
3486427	Drill Core	62.7	0.5	<0.05	<0.005	<1	<0.5	<0.5	
REP 3486427	QC								
3486450	Rock	0.5	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
REP 3486450	QC								
3486458	Drill Core	33.8	0.9	0.06	<0.005	<1	<0.5	<0.5	
REP 3486458	QC	33.9	0.8	0.06	<0.005	<1	<0.5	<0.5	
3486480	Rock Pulp	49.2	1.0	0.08	0.181	3	<0.5	<0.5	1.36
REP 3486480	QC								1.35
3486493	Drill Core	139.2	0.4	0.06	0.017	3	0.8	0.9	
REP 3486493	QC	134.5	0.3	0.08	0.005	2	0.7	0.9	
3486502	Drill Core	109.1	0.3	0.06	0.009	3	<0.5	0.6	
REP 3486502	QC								
Core Reject Duplicates									
3486374	Drill Core	58.6	0.7	<0.05	0.013	<1	<0.5	<0.5	
DUP 3486374	QC	51.5	0.9	<0.05	0.015	<1	<0.5	<0.5	
3486408	Drill Core	25.6	0.5	<0.05	<0.005	<1	0.7	<0.5	

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Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
DUP 3486408	QC		0.011	0.6	269.5	5.2	100	0.3	21.5	35.8	1504	7.05	7	0.3	0.7	1075	0.2	2.4	<0.1	375	7.20
3486442	Drill Core	4.66	0.006	1.2	208.0	5.6	104	0.2	24.4	38.0	1696	8.38	4	0.4	0.8	800	0.2	0.6	<0.1	367	7.18
DUP 3486442	QC		0.006	1.2	210.3	5.6	100	0.2	24.5	38.1	1702	8.41	4	0.4	0.8	811	0.2	0.6	<0.1	368	7.28
3486476	Drill Core	2.93	<0.005	1.9	77.5	2.7	130	<0.1	49.4	58.5	2310	13.68	4	0.3	0.4	293	0.2	0.7	<0.1	562	10.67
DUP 3486476	QC		<0.005	1.2	73.9	2.6	125	<0.1	48.4	56.0	2258	13.43	4	0.3	0.4	284	0.2	0.6	<0.1	547	10.20
Reference Materials																					
STD CCU-1E	Standard																				
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard			2.5	32.1	24.3	45	<0.1	46.2	7.9	488	6.43	11	2.7	14.8	48	<0.1	0.6	0.5	159	0.28
STD OREAS25A-4A	Standard			2.3	32.2	24.8	45	<0.1	46.5	8.0	491	6.53	10	2.7	14.3	45	<0.1	0.6	0.4	157	0.28
STD OREAS25A-4A	Standard			2.6	34.6	24.8	49	<0.1	50.7	7.9	479	6.40	10	2.8	14.9	43	<0.1	0.6	0.4	154	0.27
STD OREAS25A-4A	Standard			2.2	30.8	22.2	43	<0.1	44.8	7.6	471	6.55	9	2.6	15.1	49	<0.1	0.7	0.3	146	0.30
STD OREAS25A-4A	Standard			2.4	32.2	22.7	41	<0.1	44.5	7.2	488	6.58	9	2.5	14.6	50	<0.1	0.6	0.3	158	0.28
STD OREAS25A-4A	Standard			2.2	31.1	22.9	41	<0.1	43.2	7.2	494	6.60	10	2.6	14.6	49	<0.1	0.6	0.3	160	0.28
STD OREAS25A-4A	Standard			2.3	30.6	23.7	43	<0.1	45.2	7.6	467	6.49	9	2.6	15.2	46	<0.1	0.6	0.4	146	0.28
STD OREAS45E	Standard			2.1	775.8	18.7	49	0.3	461.6	59.6	578	25.01	18	2.5	13.3	17	<0.1	1.0	0.3	337	0.07
STD OREAS45H	Standard			1.4	765.5	13.0	42	0.1	449.7	90.0	417	19.77	17	1.7	7.7	28	<0.1	0.6	0.1	285	0.14
STD OREAS45E	Standard			2.6	787.7	18.9	51	0.4	476.8	60.5	561	25.76	16	2.5	13.3	16	<0.1	1.0	0.3	327	0.06
STD OREAS45E	Standard			2.3	788.6	18.3	47	0.3	473.0	59.2	542	25.95	18	2.6	13.7	18	<0.1	1.1	0.3	320	0.07
STD OREAS45H	Standard			1.7	811.6	12.9	41	0.1	454.1	94.2	411	21.54	19	1.7	8.1	31	<0.1	0.7	0.1	277	0.14
STD OREAS45H	Standard			1.4	793.2	11.9	41	0.1	451.3	88.3	402	21.09	18	1.6	7.1	33	<0.1	0.7	0.2	275	0.13
STD OREAS45E	Standard			2.4	795.3	18.4	46	0.3	473.3	59.8	560	25.72	15	2.4	12.9	17	<0.1	1.0	0.3	324	0.07
STD OREAS97	Standard																				
STD OREAS97	Standard																				
STD OXB130	Standard		0.120																		
STD OXB130	Standard		0.118																		
STD OXB130	Standard		0.126																		
STD OXB130	Standard		0.123																		
STD OXG141	Standard		0.922																		

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
DUP 3486408	QC	0.275	8.8	69	3.46	929	0.395	8.23	1.988	1.40	0.3	11.7	20	0.3	16.1	2.3	0.1	<1	27	30.0	0.1
3486442	Drill Core	0.173	7.7	55	3.40	781	0.537	7.40	2.054	1.85	0.6	17.3	16	0.6	15.2	3.0	0.2	<1	28	32.4	0.3
DUP 3486442	QC	0.170	7.6	56	3.42	799	0.522	7.21	2.071	1.82	0.6	15.2	16	0.6	15.3	3.0	0.2	<1	28	32.3	0.3
3486476	Drill Core	0.126	4.3	128	5.79	167	0.778	3.31	0.780	1.56	0.3	27.8	12	0.6	20.6	1.4	<0.1	1	61	39.6	0.1
DUP 3486476	QC	0.122	4.1	102	5.69	163	0.776	3.28	0.756	1.51	0.4	26.8	11	0.7	19.5	1.3	<0.1	<1	60	40.0	0.1
Reference Materials																					
STD CCU-1E	Standard																				
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard	0.050	21.1	116	0.34	149	0.913	8.92	0.120	0.53	1.6	144.6	48	4.0	10.8	18.9	1.3	<1	13	37.3	<0.1
STD OREAS25A-4A	Standard	0.051	19.6	122	0.33	144	0.900	8.76	0.120	0.50	1.8	141.3	46	3.8	9.6	17.9	1.4	<1	12	38.0	<0.1
STD OREAS25A-4A	Standard	0.049	21.6	112	0.33	146	0.851	8.72	0.135	0.48	1.8	141.9	43	3.4	9.5	18.0	1.4	<1	14	35.7	<0.1
STD OREAS25A-4A	Standard	0.049	20.6	104	0.36	144	0.930	8.88	0.142	0.53	1.7	154.7	45	3.8	10.3	18.9	1.4	1	13	40.3	<0.1
STD OREAS25A-4A	Standard	0.048	19.8	109	0.36	147	0.868	9.08	0.148	0.52	1.7	146.5	46	3.6	9.9	18.7	1.3	<1	12	38.5	<0.1
STD OREAS25A-4A	Standard	0.049	19.1	107	0.35	143	0.927	8.90	0.150	0.51	1.9	151.6	46	3.5	9.9	19.3	1.4	1	12	37.8	<0.1
STD OREAS25A-4A	Standard	0.049	22.4	115	0.34	149	0.887	8.26	0.137	0.48	1.7	150.0	49	3.6	9.7	18.3	1.3	<1	13	38.4	<0.1
STD OREAS45E	Standard	0.032	11.1	1052	0.15	263	0.553	6.98	0.054	0.35	1.0	94.5	26	1.5	8.3	6.2	0.5	<1	96	7.3	<0.1
STD OREAS45H	Standard	0.022	14.0	669	0.24	348	0.908	8.36	0.085	0.22	0.9	121.2	26	1.8	10.1	13.5	1.0	<1	60	13.6	<0.1
STD OREAS45E	Standard	0.034	12.2	1056	0.16	246	0.538	7.05	0.064	0.34	1.0	100.5	25	1.2	8.0	6.1	0.6	<1	93	6.8	<0.1
STD OREAS45E	Standard	0.038	10.8	1034	0.19	271	0.544	6.74	0.073	0.39	1.1	102.2	25	1.3	8.2	6.2	0.6	<1	100	8.1	<0.1
STD OREAS45H	Standard	0.024	13.1	680	0.27	372	0.888	8.57	0.105	0.25	0.9	133.8	26	1.9	10.3	14.6	1.0	1	63	15.3	<0.1
STD OREAS45H	Standard	0.026	10.3	702	0.29	358	0.902	8.00	0.102	0.24	1.0	131.1	23	2.0	9.5	14.3	1.0	2	61	14.6	<0.1
STD OREAS45E	Standard	0.035	11.5	1009	0.17	258	0.548	6.75	0.067	0.35	1.0	98.0	25	1.2	7.9	5.9	0.5	<1	95	7.0	<0.1
STD OREAS97	Standard																				
STD OREAS97	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
DUP 3486408	QC	27.6	0.5	<0.05	<0.005	<1	0.8	<0.5	
3486442	Drill Core	50.4	0.7	<0.05	<0.005	<1	<0.5	<0.5	
DUP 3486442	QC	50.0	0.7	<0.05	<0.005	<1	<0.5	<0.5	
3486476	Drill Core	59.7	1.3	<0.05	0.014	<1	1.4	<0.5	
DUP 3486476	QC	57.1	1.4	<0.05	<0.005	<1	1.2	<0.5	
Reference Materials									
STD CCU-1E	Standard								23.49
STD CCU-1E	Standard								23.38
STD OREAS25A-4A	Standard	57.7	4.3	0.10	<0.005	4	<0.5	<0.5	
STD OREAS25A-4A	Standard	54.4	3.9	0.09	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	53.1	4.0	0.09	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	60.8	4.4	0.08	<0.005	1	<0.5	<0.5	
STD OREAS25A-4A	Standard	57.8	4.0	<0.05	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	56.4	4.0	0.07	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	60.1	4.0	0.08	<0.005	3	<0.5	<0.5	
STD OREAS45E	Standard	21.3	3.0	0.09	<0.005	3	<0.5	<0.5	
STD OREAS45H	Standard	22.0	3.4	0.08	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	21.0	3.1	0.09	<0.005	4	<0.5	<0.5	
STD OREAS45E	Standard	22.4	3.1	0.10	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	23.2	3.8	0.09	<0.005	1	<0.5	<0.5	
STD OREAS45H	Standard	20.8	3.7	0.13	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	22.3	2.9	0.10	<0.005	3	<0.5	<0.5	
STD OREAS97	Standard								6.33
STD OREAS97	Standard								6.40
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXG141	Standard								

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXG141	Standard		0.944																		
STD OXG141	Standard		0.938																		
STD OXG141	Standard		0.963																		
STD OXN155	Standard		7.627																		
STD OXN155	Standard		7.736																		
STD OXN155	Standard		7.689																		
STD OXN155	Standard		7.711																		
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD CCU-1E Expected																					
STD OREAS97 Expected																					
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	1	<0.01	2	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	2	<0.01	<1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank		0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	0.3	<0.2	1	<0.01	<1	<0.1	<0.1	2	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.1	<0.2	4	<0.01	<1	<0.1	<0.1	4	<0.1	<0.1	<0.1	<1	<0.01

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD CCU-1E Expected																					
STD OREAS97 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	0.02	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OXG141 Expected									
STD OXN155 Expected									
STD OXB130 Expected									
STD OREAS45H Expected		22.5	3.6	0.1		2.02			
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35	
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15	
STD CCU-1E Expected									22.88
STD OREAS97 Expected									6.31
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	2	<0.5	<0.5	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	

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Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank			<0.1	1.0	<0.1	<1	<0.1	<0.1	<0.2	3	<0.01	<1	<0.1	<0.1	2	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	1.1	2.6	15.4	49	<0.1	0.7	3.4	555	2.05	3	1.3	3.3	219	0.3	0.1	<0.1	30	1.56
ROCK-VAN	Prep Blank		<0.005	0.6	3.4	18.7	34	0.1	0.7	3.6	550	2.07	3	1.3	3.2	212	<0.1	0.2	<0.1	29	1.50

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	<0.001	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.041	13.6	3	0.46	779	0.186	6.99	3.235	1.62	0.2	51.4	27	0.6	16.5	5.7	0.4	<1	7	3.3	<0.1
ROCK-VAN	Prep Blank	0.039	12.9	3	0.47	761	0.177	7.01	3.301	1.60	0.3	52.2	26	0.6	15.5	5.3	0.4	1	6	3.3	<0.1

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Prince George British Columbia V2L 5B8 Canada

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Report Date: July 15, 2020

QUALITY CONTROL REPORT VAN20001258.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
BLK	Blank	0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								<0.01
BLK	Blank								<0.01
Prep Wash									
ROCK-VAN	Prep Blank	33.5	1.8	<0.05	<0.005	<1	<0.5	<0.5	
ROCK-VAN	Prep Blank	31.3	2.0	<0.05	<0.005	<1	<0.5	<0.5	

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 02, 2020
Analysis Start:	July 09, 2020
Report Date:	July 14, 2020
Page:	1 of 5

CERTIFICATE OF ANALYSIS VAN20001259.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_12
P.O. Number	M22165
Number of Samples:	120

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	110	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	4	Split samples by riffle splitter			VAN
PUL85	4	Pulverize to 85% passing 200 mesh			VAN
SLBHP	6	Sort, label and box pulps			VAN
FA430	120	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	120	Environmental disposal charge-Fire assay lead waste			VAN
MA200	120	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
MA404	1	4 Acid Digest AAS Finish for Cu VAN	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346673	Drill Core	5.49	0.013	0.3	103.1	3.8	86	0.1	25.7	47.4	1434	8.58	3	<0.1	<0.1	821	<0.1	1.7	<0.1	516	8.85
3346674	Drill Core	5.28	0.009	0.3	101.6	4.9	111	0.2	33.0	57.0	1794	11.07	2	0.8	0.4	586	0.1	1.1	0.2	702	9.39
3346675	Drill Core	4.73	0.036	0.4	34.8	6.2	85	<0.1	30.8	44.3	1322	8.79	2	0.3	0.7	521	0.1	1.1	<0.1	477	7.67
3346676	Drill Core	3.30	0.006	1.4	147.5	7.9	88	0.2	6.3	23.0	1195	5.36	3	0.9	1.2	781	0.2	0.6	<0.1	230	4.36
3346677	Drill Core	5.70	0.022	0.3	95.3	11.1	90	0.1	22.4	36.9	1296	7.13	3	0.2	0.3	776	0.4	1.0	<0.1	372	7.41
3346678	Drill Core	3.69	0.006	1.6	138.9	16.7	100	0.2	6.1	21.9	1412	5.33	2	0.6	1.3	640	0.2	0.5	<0.1	211	3.91
3346679	Drill Core	4.12	0.006	1.8	133.3	12.6	97	0.2	5.9	21.0	1388	5.09	2	0.8	1.4	630	0.5	0.5	<0.1	203	3.93
3346680	Rock Pulp	0.13	0.625	340.2	4934.5	20.2	75	1.4	36.8	16.7	524	4.66	59	4.8	17.5	314	0.2	3.1	1.4	117	2.44
3346681	Drill Core	4.04	0.006	2.9	130.7	8.1	90	0.2	5.9	21.5	1304	5.26	3	0.8	1.6	913	0.1	1.1	<0.1	208	3.86
3346682	Drill Core	3.02	0.026	3.1	138.0	16.2	93	0.2	5.6	21.2	1384	4.77	3	1.1	1.5	856	0.2	0.8	<0.1	207	5.62
3346683	Drill Core	4.81	0.011	43.4	129.1	27.5	95	0.2	5.8	20.3	1337	4.95	3	1.1	1.8	716	0.4	0.7	0.2	199	4.46
3346684	Drill Core	4.40	0.007	10.5	141.0	27.3	97	0.2	5.8	20.5	1396	4.88	2	0.7	1.4	619	0.3	0.7	0.1	202	4.20
3346685	Core DUP		0.007	10.1	140.6	27.0	95	0.3	5.8	20.2	1375	4.77	3	0.7	1.3	614	0.3	0.7	0.1	198	4.15
3346686	Drill Core	4.37	<0.005	1.5	146.7	14.3	95	0.2	6.3	21.6	1412	5.16	3	0.7	1.6	1110	0.2	1.1	<0.1	212	4.57
3346687	Drill Core	3.97	0.005	2.2	183.8	26.9	114	0.3	6.4	21.8	1511	5.44	3	0.9	1.9	1244	0.6	1.1	0.1	221	4.78
3346688	Drill Core	4.07	0.018	5.7	214.4	44.3	127	0.4	5.5	20.6	1526	4.88	1	1.1	1.6	894	0.7	0.5	0.2	201	4.75
3346689	Drill Core	4.82	0.028	6.8	109.1	16.5	28	0.2	1.4	4.8	546	1.75	2	2.1	4.0	264	0.1	0.3	0.2	57	2.06
3346690	Rock	1.34	0.005	<0.1	1.8	0.4	2	<0.1	<0.1	1.4	136	0.09	<1	<0.1	<0.1	76	<0.1	<0.1	<0.1	<1	33.43
3346691	Drill Core	3.98	0.009	5.8	17.4	7.6	32	<0.1	1.4	4.3	553	1.76	2	2.3	4.4	277	<0.1	0.4	0.1	56	1.72
3346692	Drill Core	4.31	0.028	7.4	33.0	25.8	34	0.1	1.6	5.0	548	1.89	2	2.0	3.9	269	0.3	0.4	0.2	67	2.11
3346693	Drill Core	5.57	0.023	1.1	115.2	9.3	85	0.2	27.1	46.5	1471	9.08	3	0.2	0.1	699	<0.1	1.3	<0.1	515	7.96
3346694	Drill Core	3.31	0.005	0.2	61.7	5.0	86	<0.1	36.7	49.0	1369	9.52	3	0.2	<0.1	631	<0.1	0.8	<0.1	535	9.10
3346695	Drill Core	4.25	0.006	0.5	223.2	4.6	104	0.4	33.0	46.0	1826	8.70	1	0.2	<0.1	546	0.2	0.7	<0.1	458	10.39
3346696	Drill Core	5.02	<0.005	0.8	24.4	5.0	82	<0.1	33.7	46.5	1530	8.89	3	0.1	<0.1	831	<0.1	1.7	<0.1	478	10.66
3346697	Drill Core	4.88	<0.005	4.6	61.2	5.0	81	0.1	27.5	42.5	1353	7.94	4	0.3	0.4	806	<0.1	1.3	<0.1	410	8.91
3346698	Drill Core	4.47	0.006	5.7	43.8	6.2	85	<0.1	21.5	41.7	1590	7.88	6	0.5	1.0	756	0.2	1.7	<0.1	405	9.21
3346699	Drill Core	4.33	0.007	0.6	86.3	4.1	82	0.1	8.7	26.5	1445	5.92	5	1.2	2.1	638	<0.1	0.5	<0.1	278	6.62
3346700	Rock Pulp	0.11	0.322	10.3	2206.1	6.4	49	0.5	11.2	14.2	639	5.51	16	1.0	1.7	507	0.2	0.7	0.1	222	2.70
3346701	Drill Core	5.93	0.006	0.5	33.9	4.8	81	<0.1	18.0	46.9	1634	9.36	4	<0.1	0.1	757	0.2	0.7	<0.1	513	9.40
3346702	Drill Core	5.11	0.008	1.1	374.3	5.3	70	0.5	22.9	98.2	1351	9.95	3	<0.1	0.2	721	0.2	0.8	<0.1	528	8.80

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346673	Drill Core	0.007	1.4	8	4.06	291	0.450	8.51	0.658	1.79	0.5	8.7	4	0.4	6.9	0.3	0.1	1	32	31.6	0.4
3346674	Drill Core	0.020	2.4	18	4.58	234	0.629	6.26	0.730	1.71	0.5	14.5	6	0.6	10.5	2.1	0.1	6	47	25.5	1.3
3346675	Drill Core	0.030	3.4	11	3.88	334	0.483	7.46	1.265	2.40	2.3	13.5	8	0.4	10.1	1.4	0.1	2	39	33.7	0.2
3346676	Drill Core	0.175	8.5	3	1.85	1251	0.434	7.79	2.693	3.64	0.5	32.5	19	0.7	13.0	5.9	0.4	2	11	29.7	0.4
3346677	Drill Core	0.037	3.2	9	3.14	501	0.402	9.09	1.465	2.42	0.9	8.2	7	0.4	8.0	1.4	0.1	1	31	41.1	0.4
3346678	Drill Core	0.184	7.7	4	1.78	1104	0.434	7.96	3.021	3.06	0.7	27.1	18	0.7	12.4	6.3	0.4	2	11	36.7	0.1
3346679	Drill Core	0.186	7.7	4	1.75	1127	0.414	7.83	2.666	4.02	0.8	31.4	18	0.7	12.4	6.6	0.4	2	10	37.1	0.2
3346680	Rock Pulp	0.101	31.7	62	1.34	232	0.483	7.11	2.048	3.30	4.2	76.9	59	3.0	20.9	17.9	1.4	3	13	27.3	0.7
3346681	Drill Core	0.186	10.1	4	1.81	1127	0.425	8.58	3.235	2.64	0.6	29.1	22	0.7	13.7	6.3	0.4	1	11	21.5	0.1
3346682	Drill Core	0.174	11.0	4	1.71	1280	0.381	8.09	0.991	4.02	1.0	18.8	22	0.6	13.3	5.6	0.3	1	11	27.7	0.5
3346683	Drill Core	0.177	10.9	4	1.76	1069	0.384	8.33	2.186	4.43	1.3	27.9	22	0.6	13.7	5.7	0.4	2	11	19.9	0.6
3346684	Drill Core	0.171	8.1	4	1.77	1046	0.388	7.72	2.326	4.61	5.6	24.6	18	0.6	11.6	5.6	0.4	2	10	15.4	0.5
3346685	Core DUP	0.172	7.8	4	1.73	1100	0.383	7.56	2.322	5.41	5.5	24.1	17	0.6	11.4	5.4	0.4	2	10	15.0	0.5
3346686	Drill Core	0.178	9.8	4	1.81	1030	0.419	8.30	3.138	3.15	0.6	32.5	21	0.7	13.7	6.2	0.4	2	11	18.3	0.2
3346687	Drill Core	0.189	12.6	4	1.87	1182	0.430	8.76	2.568	3.59	0.6	33.0	25	0.7	15.7	7.0	0.4	3	12	25.6	0.2
3346688	Drill Core	0.173	12.7	3	1.75	724	0.399	8.21	1.506	5.84	0.9	24.3	24	0.8	14.8	6.4	0.4	2	12	27.5	0.7
3346689	Drill Core	0.035	9.2	3	0.43	363	0.147	6.80	2.259	5.33	1.4	80.8	17	0.7	9.0	8.3	0.7	2	3	4.7	0.6
3346690	Rock	0.007	1.1	1	2.32	11	0.005	0.06	0.029	0.02	<0.1	1.4	<1	<0.1	1.9	<0.1	<0.1	<1	<1	1.0	<0.1
3346691	Drill Core	0.034	10.1	4	0.43	567	0.161	7.14	2.508	5.61	1.4	94.8	18	0.7	9.8	9.2	0.7	2	3	4.2	0.6
3346692	Drill Core	0.040	8.5	3	0.43	458	0.163	7.04	2.372	4.98	1.6	84.3	16	0.8	9.2	8.8	0.7	2	3	4.0	0.5
3346693	Drill Core	0.019	2.0	11	3.87	320	0.488	8.05	0.984	1.99	0.7	8.7	5	0.5	7.8	0.7	<0.1	<1	37	30.3	0.7
3346694	Drill Core	0.010	1.5	11	4.30	199	0.490	8.11	0.667	1.88	0.6	11.0	4	0.4	7.8	0.7	<0.1	1	43	33.4	0.3
3346695	Drill Core	0.006	1.6	8	3.91	281	0.450	7.77	0.802	2.11	1.1	8.0	4	0.4	7.0	0.7	<0.1	1	40	41.6	0.8
3346696	Drill Core	0.009	1.5	8	4.29	221	0.455	8.10	0.650	1.10	0.6	10.6	4	0.4	7.6	0.4	<0.1	<1	40	23.1	0.2
3346697	Drill Core	0.063	3.4	7	3.69	331	0.427	9.09	1.575	1.52	0.6	11.8	7	0.4	8.2	1.1	0.1	1	31	25.9	0.2
3346698	Drill Core	0.075	3.4	5	3.63	401	0.427	8.46	1.657	1.59	0.7	10.4	7	0.4	9.1	1.6	0.1	<1	29	27.2	0.6
3346699	Drill Core	0.278	9.8	2	2.44	589	0.438	8.54	3.834	2.22	0.5	21.5	19	0.4	14.5	3.9	0.2	<1	14	30.0	1.5
3346700	Rock Pulp	0.111	8.3	20	1.18	1398	0.316	7.92	3.321	3.05	0.8	40.9	18	1.9	18.2	2.8	0.2	1	10	13.4	0.3
3346701	Drill Core	0.010	1.5	6	4.09	306	0.467	8.63	0.544	1.50	0.6	8.6	4	0.3	7.0	0.5	<0.1	<1	33	32.3	0.2
3346702	Drill Core	0.014	1.7	7	4.73	251	0.511	7.79	0.873	1.20	0.5	10.9	4	0.3	9.1	0.6	<0.1	<1	41	26.6	0.7

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Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346673	Drill Core	39.5	0.5	<0.05	<0.005	1	<0.5	<0.5	
3346674	Drill Core	57.2	0.7	0.06	<0.005	2	<0.5	<0.5	
3346675	Drill Core	68.1	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3346676	Drill Core	53.7	1.0	<0.05	<0.005	1	<0.5	<0.5	
3346677	Drill Core	60.2	0.5	<0.05	<0.005	1	<0.5	<0.5	
3346678	Drill Core	44.7	0.8	<0.05	<0.005	1	<0.5	<0.5	
3346679	Drill Core	54.0	0.9	<0.05	<0.005	1	<0.5	<0.5	
3346680	Rock Pulp	155.4	2.5	0.09	0.240	4	<0.5	0.9	
3346681	Drill Core	38.4	0.9	<0.05	<0.005	1	<0.5	<0.5	
3346682	Drill Core	66.0	0.5	<0.05	<0.005	1	<0.5	<0.5	
3346683	Drill Core	71.3	0.9	<0.05	0.026	2	<0.5	<0.5	
3346684	Drill Core	63.4	0.7	<0.05	0.008	2	<0.5	<0.5	
3346685	Core DUP	66.5	0.7	<0.05	0.007	1	<0.5	<0.5	
3346686	Drill Core	45.8	0.9	<0.05	<0.005	1	<0.5	<0.5	
3346687	Drill Core	70.9	1.0	<0.05	<0.005	2	<0.5	0.5	
3346688	Drill Core	126.1	0.7	<0.05	<0.005	2	<0.5	0.8	
3346689	Drill Core	73.7	2.1	<0.05	<0.005	1	<0.5	<0.5	
3346690	Rock	0.3	<0.1	<0.05	<0.005	2	<0.5	<0.5	
3346691	Drill Core	77.3	2.4	<0.05	<0.005	1	<0.5	<0.5	
3346692	Drill Core	72.2	2.1	<0.05	<0.005	2	<0.5	<0.5	
3346693	Drill Core	65.1	0.4	<0.05	<0.005	2	<0.5	<0.5	
3346694	Drill Core	64.0	0.6	<0.05	<0.005	1	<0.5	<0.5	
3346695	Drill Core	81.4	0.4	<0.05	<0.005	2	<0.5	<0.5	
3346696	Drill Core	31.6	0.5	<0.05	<0.005	1	<0.5	<0.5	
3346697	Drill Core	44.9	0.5	<0.05	<0.005	1	<0.5	<0.5	
3346698	Drill Core	42.4	0.4	0.08	<0.005	<1	0.7	<0.5	
3346699	Drill Core	60.4	0.8	<0.05	<0.005	1	<0.5	<0.5	
3346700	Rock Pulp	62.9	1.3	0.07	0.041	2	<0.5	<0.5	
3346701	Drill Core	31.4	0.5	0.07	<0.005	<1	1.6	<0.5	
3346702	Drill Core	25.0	0.6	0.05	0.010	<1	0.9	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346703	Drill Core	4.57	<0.005	0.8	75.0	16.0	71	0.1	11.8	34.7	1333	7.56	4	0.5	0.7	897	0.2	0.7	<0.1	394	8.62
3346704	Drill Core	4.41	0.007	2.8	114.5	170.9	78	0.5	5.2	20.7	1540	5.56	5	1.0	2.0	1225	0.4	1.1	0.7	216	6.07
3346705	Drill Core	6.31	<0.005	1.7	157.9	19.4	82	0.2	5.7	22.4	1453	5.38	4	0.8	1.9	1310	0.3	0.8	<0.1	218	5.37
3346706	Drill Core	5.86	<0.005	1.3	158.7	49.2	83	0.3	5.9	20.3	1338	5.19	3	0.8	1.8	847	0.3	0.5	0.4	216	4.36
3346707	Drill Core	5.27	0.007	2.1	130.9	19.0	86	0.1	4.9	19.7	1259	4.97	3	0.9	1.8	665	0.2	0.2	<0.1	209	4.45
3346708	Drill Core	6.11	0.018	9.7	188.1	28.3	103	0.4	14.4	32.7	1630	7.17	3	0.7	1.3	483	0.4	0.3	0.2	339	6.74
3346709	Drill Core	5.68	0.073	20.2	64.7	12.4	99	0.2	39.4	42.5	1447	8.70	3	0.5	0.4	183	0.2	0.4	0.5	464	7.23
3346710	Rock	1.48	<0.005	1.0	1.5	0.6	2	<0.1	0.4	<0.2	142	0.11	2	<0.1	<0.1	79	<0.1	<0.1	<0.1	<1	31.88
3346711	Drill Core	4.49	<0.005	0.2	47.7	7.0	88	<0.1	42.6	53.0	1430	10.66	6	0.3	0.1	817	0.2	1.3	<0.1	613	8.11
3346712	Drill Core	5.07	0.008	0.9	30.2	12.2	95	0.1	40.8	52.6	1931	10.52	8	0.3	0.2	483	0.2	1.0	<0.1	615	9.04
3346713	Drill Core	3.94	0.008	1.0	88.1	45.0	93	0.3	12.5	24.5	1418	6.10	5	0.8	0.9	378	0.9	0.4	0.3	281	6.13
3346714	Drill Core	3.62	0.009	33.1	84.8	20.3	79	0.2	19.1	28.7	1237	6.40	3	0.5	0.7	386	0.3	0.4	0.1	324	8.60
3346715	Drill Core	4.59	0.007	0.3	47.0	8.5	83	0.1	38.5	54.6	1406	10.13	6	0.1	<0.1	887	0.2	1.7	<0.1	548	9.23
3346716	Drill Core	4.89	0.010	0.2	101.2	8.3	80	0.2	38.4	52.1	1447	10.16	5	0.3	0.3	686	<0.1	1.6	<0.1	614	9.85
3346717	Drill Core	3.83	<0.005	0.2	38.3	8.2	74	<0.1	33.2	46.0	1307	9.77	5	0.2	0.1	853	<0.1	1.4	<0.1	549	9.33
3346718	Drill Core	3.92	<0.005	0.8	32.4	6.8	79	0.1	35.2	46.2	1495	9.99	6	<0.1	0.2	693	0.2	1.3	<0.1	548	9.45
3346719	Drill Core	4.80	0.006	2.1	48.8	8.8	85	0.1	36.9	47.7	1568	9.79	4	0.3	0.3	501	0.1	1.0	<0.1	543	8.91
3346720	Rock Pulp	0.13	0.216	98.2	2716.9	21.2	81	0.4	59.4	15.5	562	4.47	19	4.8	19.2	334	0.2	2.2	0.7	126	2.59
3346721	Drill Core	4.61	0.008	0.3	53.4	10.3	84	0.1	33.8	40.8	1880	9.41	3	0.5	0.5	477	0.4	0.8	<0.1	503	8.94
3346722	Drill Core	3.52	0.006	8.7	54.2	8.9	83	0.1	32.9	43.5	1596	10.08	4	0.6	0.8	433	0.2	0.5	<0.1	524	6.99
3346723	Drill Core	3.40	0.007	1.6	61.9	5.0	69	0.1	29.7	40.8	1673	8.61	2	0.6	0.2	358	0.2	0.5	<0.1	502	7.90
3346724	Drill Core	4.78	0.006	0.8	38.0	4.9	53	<0.1	23.3	37.3	1289	7.74	4	0.3	0.7	799	0.1	1.1	<0.1	394	8.57
3346725	Core DUP		0.006	0.6	44.1	4.6	58	0.1	24.1	39.4	1319	7.98	3	0.4	0.8	754	<0.1	0.9	<0.1	398	8.86
3346726	Drill Core	5.25	0.006	2.0	32.8	3.3	73	0.1	40.3	53.5	1550	10.69	3	0.2	0.3	478	0.2	0.9	<0.1	583	9.12
3346727	Drill Core	3.67	0.005	0.6	58.8	3.9	67	0.1	28.3	39.8	1277	8.89	4	0.3	0.4	660	0.1	0.8	<0.1	471	7.80
3346728	Drill Core	3.32	0.027	1.5	79.0	7.2	76	0.1	18.0	31.1	1332	7.22	4	0.7	1.0	529	<0.1	0.6	<0.1	341	6.89
3346729	Drill Core	4.84	0.005	1.0	21.7	5.6	41	<0.1	18.5	32.1	1126	7.13	4	0.4	1.2	1073	0.2	1.2	<0.1	336	7.81
3346730	Rock	1.29	<0.005	<0.1	0.7	0.5	3	<0.1	<0.1	0.2	149	0.12	4	0.1	0.1	76	<0.1	<0.1	<0.1	1	30.95
3346731	Drill Core	2.75	0.007	0.5	36.6	6.1	60	<0.1	26.1	37.9	1304	8.31	3	0.3	0.7	896	<0.1	1.5	<0.1	440	8.40
3346732	Drill Core	3.61	0.023	3.5	96.2	8.3	86	0.2	39.6	40.2	1429	8.22	3	0.4	0.6	529	0.3	1.0	<0.1	408	8.22

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346703	Drill Core	0.066	4.3	4	3.26	512	0.417	8.40	1.302	2.63	0.5	17.0	10	0.4	9.8	2.2	<0.1	<1	25	29.6	0.3
3346704	Drill Core	0.199	11.2	3	1.85	764	0.417	9.00	3.076	2.78	0.6	31.5	25	0.8	16.9	6.5	0.4	3	11	24.0	0.3
3346705	Drill Core	0.198	10.3	2	1.87	1012	0.430	8.37	3.068	2.75	0.6	33.9	24	1.1	16.3	7.0	0.4	3	11	30.2	0.3
3346706	Drill Core	0.184	9.0	3	1.79	1037	0.404	7.78	2.481	4.00	0.7	24.5	21	0.4	15.0	6.7	0.4	2	11	38.4	0.3
3346707	Drill Core	0.184	11.3	2	1.73	1060	0.395	8.34	1.579	5.29	0.9	23.0	24	0.6	15.6	6.6	0.3	2	11	39.2	0.4
3346708	Drill Core	0.129	7.5	5	2.93	839	0.455	7.79	2.022	3.22	1.1	25.9	16	0.4	13.7	4.2	0.2	2	23	32.6	0.6
3346709	Drill Core	0.035	2.6	25	4.42	295	0.399	6.48	1.491	2.91	2.2	7.6	6	0.2	7.3	1.1	<0.1	2	38	23.2	1.2
3346710	Rock	0.006	1.0	<1	2.77	13	0.005	0.06	0.036	0.03	<0.1	1.2	<1	<0.1	2.2	<0.1	<0.1	<1	<1	1.2	<0.1
3346711	Drill Core	0.008	1.3	9	4.83	158	0.564	6.08	0.608	2.64	0.6	9.6	3	0.3	7.8	0.5	<0.1	2	53	19.3	0.7
3346712	Drill Core	0.007	1.1	9	4.73	177	0.573	5.52	0.582	3.39	0.6	9.6	3	0.4	7.9	0.7	<0.1	2	53	28.6	1.5
3346713	Drill Core	0.129	8.2	6	2.28	329	0.524	7.34	0.975	5.62	0.9	23.4	19	0.7	17.0	6.5	0.4	2	21	33.5	1.5
3346714	Drill Core	0.071	5.2	5	2.55	351	0.369	6.47	1.997	4.11	1.3	21.5	12	0.5	11.4	3.3	0.2	2	24	28.3	1.6
3346715	Drill Core	0.007	1.1	5	4.63	172	0.531	7.14	0.652	2.41	0.7	11.4	3	0.2	7.1	0.8	<0.1	<1	43	37.9	0.6
3346716	Drill Core	0.020	1.8	9	4.52	268	0.555	6.87	0.648	2.28	0.7	14.7	4	0.6	7.8	1.3	<0.1	3	47	30.6	1.0
3346717	Drill Core	0.011	1.5	6	4.22	239	0.498	7.73	0.554	2.21	0.3	9.7	4	0.2	7.2	0.6	<0.1	<1	43	27.5	0.3
3346718	Drill Core	0.008	1.4	4	4.32	228	0.549	7.46	0.566	2.25	0.6	9.8	4	0.3	7.6	0.5	<0.1	<1	48	28.6	0.3
3346719	Drill Core	0.024	2.3	12	4.40	300	0.534	6.91	0.796	3.01	0.9	8.8	5	0.3	8.4	1.1	<0.1	2	47	33.9	0.6
3346720	Rock Pulp	0.102	32.3	79	1.49	1096	0.482	7.37	2.178	2.93	3.9	76.5	69	3.3	24.8	18.1	1.3	4	13	35.7	0.3
3346721	Drill Core	0.014	2.1	12	3.96	358	0.484	5.73	0.799	3.18	0.5	8.4	5	0.3	9.0	1.4	<0.1	2	43	30.6	1.4
3346722	Drill Core	0.050	4.2	14	3.78	576	0.618	6.32	0.869	4.55	1.0	22.2	10	0.7	12.4	3.4	0.2	3	41	33.2	0.7
3346723	Drill Core	0.010	1.6	9	3.77	626	0.442	7.28	0.927	3.78	0.6	7.8	4	0.4	7.7	1.3	<0.1	2	40	42.3	1.2
3346724	Drill Core	0.043	3.7	9	3.28	401	0.391	8.27	1.929	2.27	0.9	8.5	8	0.3	9.4	1.3	<0.1	1	33	30.7	0.5
3346725	Core DUP	0.047	3.9	9	3.35	381	0.408	7.82	1.931	2.32	1.1	7.9	8	0.4	9.4	1.4	<0.1	<1	33	29.4	0.6
3346726	Drill Core	0.009	1.6	12	4.83	287	0.577	6.14	0.953	2.16	1.0	11.6	4	0.4	8.9	0.8	<0.1	1	51	30.6	0.4
3346727	Drill Core	0.021	2.6	6	3.75	467	0.443	7.85	1.401	2.74	1.2	9.6	6	0.4	8.1	1.7	<0.1	1	39	33.8	0.4
3346728	Drill Core	0.088	6.1	7	2.93	830	0.454	7.73	1.671	3.43	1.4	22.5	15	0.5	14.0	4.0	0.2	1	26	31.0	0.8
3346729	Drill Core	0.038	4.3	15	3.02	654	0.360	7.99	2.665	2.07	0.5	9.2	9	0.3	10.0	2.1	0.1	1	29	17.4	0.2
3346730	Rock	0.007	1.3	<1	3.67	11	0.005	0.06	0.035	0.01	<0.1	1.2	1	<0.1	2.1	<0.1	<0.1	<1	<1	0.9	<0.1
3346731	Drill Core	0.019	2.6	15	3.71	467	0.414	7.04	1.720	2.20	0.8	9.1	6	0.4	9.8	1.7	<0.1	<1	40	21.5	0.4
3346732	Drill Core	0.048	3.0	35	3.89	495	0.414	6.77	1.232	2.24	1.7	8.1	7	0.3	8.7	1.6	<0.1	1	34	31.2	0.9

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Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346703	Drill Core	60.3	0.6	0.06	<0.005	<1	1.3	<0.5	
3346704	Drill Core	65.2	1.0	0.07	<0.005	<1	<0.5	<0.5	
3346705	Drill Core	54.8	1.1	<0.05	<0.005	<1	<0.5	<0.5	
3346706	Drill Core	91.7	0.7	0.05	<0.005	<1	<0.5	0.7	
3346707	Drill Core	122.1	0.7	<0.05	<0.005	<1	<0.5	0.8	
3346708	Drill Core	89.7	0.6	<0.05	0.006	<1	0.8	0.6	
3346709	Drill Core	95.9	1.2	<0.05	0.030	<1	1.4	0.6	
3346710	Rock	0.3	<0.1	<0.05	<0.005	<1	3.3	<0.5	
3346711	Drill Core	115.9	0.5	<0.05	<0.005	<1	0.7	0.7	
3346712	Drill Core	127.5	0.4	0.07	<0.005	<1	1.1	0.7	
3346713	Drill Core	125.3	0.8	0.06	<0.005	1	<0.5	0.7	
3346714	Drill Core	124.3	0.8	<0.05	0.045	1	0.9	0.8	
3346715	Drill Core	83.0	0.5	<0.05	0.007	<1	1.2	<0.5	
3346716	Drill Core	68.7	0.5	<0.05	<0.005	<1	1.2	<0.5	
3346717	Drill Core	53.6	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3346718	Drill Core	65.6	0.5	<0.05	<0.005	<1	0.7	<0.5	
3346719	Drill Core	107.0	0.5	0.06	<0.005	<1	0.8	0.6	
3346720	Rock Pulp	180.1	2.4	0.06	<0.005	2	<0.5	1.0	
3346721	Drill Core	110.2	0.4	<0.05	<0.005	<1	1.4	0.7	
3346722	Drill Core	131.9	1.0	0.06	0.008	<1	0.7	0.8	
3346723	Drill Core	124.5	0.3	0.06	<0.005	1	0.8	0.7	
3346724	Drill Core	82.0	0.3	<0.05	<0.005	<1	1.0	<0.5	
3346725	Core DUP	78.0	0.4	<0.05	<0.005	<1	1.1	<0.5	
3346726	Drill Core	92.5	0.5	0.06	<0.005	<1	1.6	0.5	
3346727	Drill Core	100.1	0.4	<0.05	<0.005	<1	0.8	0.5	
3346728	Drill Core	103.7	0.6	<0.05	<0.005	1	1.0	0.7	
3346729	Drill Core	58.0	0.4	<0.05	<0.005	<1	0.5	<0.5	
3346730	Rock	0.5	<0.1	<0.05	<0.005	<1	2.6	<0.5	
3346731	Drill Core	70.6	0.4	<0.05	<0.005	<1	0.8	<0.5	
3346732	Drill Core	78.9	0.4	0.06	<0.005	<1	1.2	<0.5	

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BUREAU VERITAS
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Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346733	Drill Core	4.78	0.008	2.6	82.8	7.8	91	0.2	39.9	44.3	1322	8.84	2	0.3	0.8	256	0.3	0.6	<0.1	465	7.32
3346734	Drill Core	3.24	0.009	4.4	65.1	13.5	109	0.1	39.6	44.6	1530	9.52	1	0.6	0.4	259	0.2	0.8	0.1	499	8.17
3346735	Drill Core	3.04	0.594	2.0	412.8	3.4	94	0.5	27.7	36.0	1220	7.69	3	0.6	1.3	275	0.3	0.6	<0.1	410	3.67
3346736	Drill Core	5.36	0.016	0.8	322.1	12.3	73	0.4	21.8	42.9	1441	7.98	5	0.3	0.3	1097	0.3	2.0	<0.1	479	8.69
3346737	Drill Core	2.05	0.005	0.5	213.5	5.3	129	0.3	15.2	39.8	2155	7.16	2	0.5	0.1	252	0.2	0.4	<0.1	375	5.87
3346738	Drill Core	2.41	0.006	5.8	195.9	4.8	52	0.2	7.2	22.5	881	4.01	2	1.4	3.2	281	0.3	0.6	<0.1	176	3.64
3346739	Drill Core	3.64	0.011	0.7	305.5	15.8	74	0.4	20.2	48.2	1382	9.00	7	0.2	0.1	1738	0.3	4.2	<0.1	582	10.42
3346740	Rock Pulp	0.13	0.675	340.2	5072.3	20.3	72	1.3	33.6	15.9	534	4.77	59	4.6	16.8	382	0.6	3.5	1.5	118	2.54
3346741	Drill Core	5.00	0.012	3.5	345.3	15.8	117	0.4	22.9	57.1	1816	9.41	5	0.7	0.3	727	0.4	2.3	<0.1	505	8.03
3346742	Drill Core	4.12	0.015	1.0	287.3	9.8	106	0.4	19.9	40.6	1635	7.35	7	0.8	0.4	578	0.3	1.5	0.1	414	6.82
3346743	Drill Core	3.98	0.014	1.0	146.5	12.2	64	0.2	16.4	36.5	1475	8.15	7	0.2	0.1	1535	0.2	4.0	<0.1	510	10.81
3346744	Drill Core	4.97	0.019	1.0	579.2	13.9	86	1.0	16.9	52.5	1829	9.21	10	0.2	0.2	1460	0.5	3.5	<0.1	578	9.68
3346745	Drill Core	4.80	0.008	0.7	364.4	11.9	95	0.5	16.4	47.0	2058	9.63	7	<0.1	0.1	1310	0.3	3.1	<0.1	592	10.39
3346746	Drill Core	4.69	0.014	0.5	483.7	8.8	126	0.6	17.5	50.4	2117	9.82	5	0.5	0.1	833	0.5	1.9	<0.1	617	9.83
3346747	Drill Core	4.69	0.008	1.3	321.6	7.7	112	0.4	16.6	51.3	2022	9.77	5	0.2	<0.1	851	0.3	2.0	<0.1	626	9.95
3346748	Drill Core	3.43	0.010	1.2	248.0	5.7	120	0.3	17.3	50.9	1760	9.46	4	0.9	0.1	468	0.3	1.1	<0.1	624	8.76
3346749	Drill Core	3.32	0.010	0.8	102.1	6.9	106	0.2	22.1	48.0	1731	9.19	5	0.8	0.2	623	<0.1	1.4	<0.1	587	9.10
3346750	Rock	1.47	<0.005	<0.1	3.9	0.6	4	<0.1	0.1	1.4	118	0.28	<1	0.8	0.4	82	<0.1	<0.1	<0.1	8	31.09
3346751	Drill Core	5.18	0.008	1.0	33.5	9.6	86	<0.1	25.1	49.2	1762	9.89	8	0.2	0.1	1244	0.2	2.3	<0.1	581	10.46
3346752	Drill Core	4.99	0.010	2.0	21.4	8.8	88	<0.1	25.4	52.4	1814	9.78	7	0.1	<0.1	1190	0.2	2.2	<0.1	588	10.27
3346753	Drill Core	4.89	<0.005	0.2	8.4	7.3	85	<0.1	26.0	45.0	1663	9.54	7	<0.1	<0.1	1215	<0.1	2.4	<0.1	530	10.23
3346754	Drill Core	4.64	0.009	0.6	61.6	5.4	102	0.1	34.3	49.4	1480	9.77	3	0.2	0.2	620	0.1	1.2	<0.1	523	7.47
3346755	Drill Core	3.21	0.008	1.4	52.7	7.5	80	<0.1	35.7	43.8	1543	8.74	6	0.1	<0.1	1317	<0.1	2.4	<0.1	500	10.10
3346756	Drill Core	3.27	<0.005	1.2	5.6	8.7	70	<0.1	35.5	42.6	1609	8.50	10	<0.1	0.2	1902	0.2	2.6	<0.1	508	11.84
3346757	Drill Core	3.09	0.006	1.1	97.8	6.4	85	0.1	17.3	27.4	1431	6.28	5	0.9	1.5	635	0.1	1.1	<0.1	294	5.72
3346758	Drill Core	3.17	<0.005	2.3	186.6	6.7	68	0.2	6.1	20.3	1159	5.22	7	0.8	1.7	817	0.2	1.2	<0.1	238	4.79
3346759	Drill Core	3.52	0.011	0.6	304.2	9.1	93	0.4	17.2	48.7	1856	9.29	10	0.1	0.2	1502	0.2	3.4	<0.1	624	10.09
3346760	Rock Pulp	0.11	1.352	262.4	>10000	18.7	93	2.4	22.7	12.9	719	4.95	6	1.0	3.6	459	0.8	3.2	0.5	89	1.99
3346761	Drill Core	5.37	0.007	0.4	342.0	6.3	102	0.3	15.6	52.8	1816	9.72	6	<0.1	0.1	1173	0.4	2.2	<0.1	617	8.82
3346762	Drill Core	5.55	0.006	0.8	395.1	6.3	103	0.4	17.6	56.1	2280	10.29	4	<0.1	<0.1	894	0.3	1.7	<0.1	647	9.54

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346733	Drill Core	0.029	2.5	20	4.10	472	0.451	6.37	1.122	2.09	2.5	7.6	6	0.5	8.3	1.5	<0.1	1	39	34.5	0.6
3346734	Drill Core	0.031	2.4	13	4.14	552	0.552	6.11	0.920	2.52	4.1	9.1	6	0.5	8.7	1.7	<0.1	1	42	29.5	0.7
3346735	Drill Core	0.096	6.3	36	3.59	909	0.465	8.26	2.126	3.54	2.4	14.6	14	0.6	11.7	3.4	0.2	1	29	28.3	0.2
3346736	Drill Core	0.036	2.2	11	3.82	677	0.446	7.17	0.433	2.70	0.8	9.4	5	0.3	8.1	1.1	<0.1	2	33	16.5	0.5
3346737	Drill Core	0.008	1.6	6	3.86	992	0.434	7.96	1.501	2.97	0.8	6.0	4	0.3	6.8	1.3	<0.1	<1	29	37.8	0.6
3346738	Drill Core	0.035	7.2	4	1.73	1009	0.276	7.76	1.844	4.86	0.8	60.0	15	0.7	10.5	8.0	0.6	1	13	10.8	0.6
3346739	Drill Core	0.010	1.4	6	4.06	160	0.500	8.23	0.107	1.09	1.1	9.1	4	0.4	8.4	0.9	<0.1	2	36	13.8	0.5
3346740	Rock Pulp	0.113	31.2	62	1.38	369	0.481	7.40	2.095	3.41	3.5	85.4	67	3.4	23.1	19.4	1.4	2	12	30.2	0.7
3346741	Drill Core	0.023	2.3	22	4.63	495	0.530	7.32	0.562	2.37	1.0	14.1	6	0.5	9.8	1.6	<0.1	2	38	35.3	1.1
3346742	Drill Core	0.045	3.0	28	3.84	720	0.423	7.61	0.671	3.82	0.7	9.5	7	0.5	8.4	2.1	<0.1	1	29	37.9	1.8
3346743	Drill Core	0.013	1.6	8	3.70	295	0.412	7.47	0.133	1.95	0.7	9.8	4	0.2	7.2	0.7	<0.1	2	30	8.1	0.5
3346744	Drill Core	0.014	2.1	8	3.76	295	0.560	8.46	0.287	1.73	1.2	13.8	5	0.3	8.8	0.7	<0.1	1	36	19.3	0.5
3346745	Drill Core	0.013	1.8	8	4.29	308	0.548	7.86	0.162	1.84	1.0	12.3	4	0.2	9.1	0.5	<0.1	2	36	22.0	0.2
3346746	Drill Core	0.013	1.7	9	4.28	290	0.595	7.14	0.889	2.22	0.9	9.4	4	0.3	9.3	0.9	<0.1	1	39	33.1	0.7
3346747	Drill Core	0.010	1.5	10	4.53	208	0.596	6.60	0.805	1.83	0.7	9.6	4	0.3	9.6	0.4	<0.1	1	39	30.1	0.5
3346748	Drill Core	0.010	1.5	13	4.31	375	0.567	6.23	1.111	2.98	0.5	9.3	4	0.4	9.4	1.5	<0.1	2	38	36.3	1.3
3346749	Drill Core	0.011	1.6	12	4.15	371	0.540	6.73	0.780	2.44	0.5	10.5	4	0.4	8.7	1.7	<0.1	2	36	33.4	1.1
3346750	Rock	0.009	1.2	3	2.47	56	0.028	0.47	0.250	0.06	0.3	2.5	1	<0.1	4.8	2.8	0.5	<1	1	1.5	<0.1
3346751	Drill Core	0.008	1.4	11	4.33	172	0.538	7.96	0.276	1.33	0.6	10.7	4	0.3	8.6	0.5	<0.1	2	40	21.5	0.5
3346752	Drill Core	0.008	1.3	6	4.32	187	0.527	7.84	0.298	1.37	0.6	10.6	4	0.4	8.2	0.4	<0.1	1	39	22.5	0.6
3346753	Drill Core	0.009	1.4	13	4.35	272	0.480	7.83	0.430	1.45	0.6	10.7	4	0.3	8.6	0.3	<0.1	1	39	22.2	<0.1
3346754	Drill Core	0.009	1.3	7	4.39	437	0.522	7.29	1.273	2.57	0.6	7.9	3	0.4	7.1	0.4	<0.1	1	44	33.3	0.7
3346755	Drill Core	0.006	1.1	5	4.06	262	0.445	7.52	0.767	1.55	0.5	8.2	3	0.4	6.1	0.3	<0.1	<1	40	23.5	0.3
3346756	Drill Core	0.014	1.4	15	4.07	135	0.432	8.01	0.378	0.85	0.8	9.3	3	0.2	6.2	0.3	<0.1	1	40	19.3	0.2
3346757	Drill Core	0.146	8.4	15	2.70	1026	0.429	8.27	1.995	4.46	0.8	18.4	18	0.7	12.7	4.1	0.2	1	20	34.6	0.5
3346758	Drill Core	0.205	8.9	4	1.89	1076	0.439	8.02	2.943	3.27	0.8	14.8	22	0.8	15.0	6.2	0.3	1	12	24.8	0.2
3346759	Drill Core	0.021	2.1	9	4.42	225	0.576	7.62	0.300	1.56	0.7	14.2	5	0.3	9.4	0.7	<0.1	2	35	16.0	0.2
3346760	Rock Pulp	0.076	10.5	40	0.89	101	0.286	7.22	2.579	2.00	1.7	30.5	23	2.7	11.6	5.8	0.3	<1	9	16.4	1.2
3346761	Drill Core	0.011	1.7	9	4.56	294	0.587	7.60	0.678	1.64	0.5	12.4	4	0.3	9.6	0.4	<0.1	1	38	29.4	<0.1
3346762	Drill Core	0.011	1.5	12	4.70	259	0.621	6.83	0.886	1.63	0.7	10.8	4	0.4	9.4	0.3	<0.1	<1	40	34.9	0.3

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346733	Drill Core	74.1	0.4	0.10	<0.005	<1	0.9	0.5	
3346734	Drill Core	82.3	0.4	<0.05	0.012	<1	1.3	0.5	
3346735	Drill Core	76.8	0.5	0.08	<0.005	<1	<0.5	<0.5	
3346736	Drill Core	58.5	0.6	<0.05	<0.005	<1	1.0	<0.5	
3346737	Drill Core	52.5	0.3	<0.05	<0.005	<1	1.0	<0.5	
3346738	Drill Core	66.4	1.7	<0.05	0.009	<1	<0.5	<0.5	
3346739	Drill Core	21.7	0.6	0.05	0.005	<1	0.9	<0.5	
3346740	Rock Pulp	177.9	2.3	0.14	0.225	2	<0.5	1.0	
3346741	Drill Core	57.4	0.5	<0.05	0.008	<1	0.7	<0.5	
3346742	Drill Core	86.1	0.6	0.08	<0.005	2	0.5	0.5	
3346743	Drill Core	28.8	0.5	<0.05	<0.005	<1	1.0	<0.5	
3346744	Drill Core	34.7	0.5	<0.05	<0.005	<1	0.5	<0.5	
3346745	Drill Core	36.9	0.7	0.05	<0.005	<1	0.9	<0.5	
3346746	Drill Core	72.5	0.5	<0.05	<0.005	<1	0.8	<0.5	
3346747	Drill Core	68.4	0.7	<0.05	<0.005	<1	1.0	<0.5	
3346748	Drill Core	110.4	0.5	<0.05	0.007	2	1.1	0.7	
3346749	Drill Core	82.3	0.6	<0.05	0.007	1	0.7	<0.5	
3346750	Rock	1.0	0.1	<0.05	<0.005	<1	3.9	<0.5	
3346751	Drill Core	34.1	0.5	<0.05	<0.005	<1	0.8	<0.5	
3346752	Drill Core	32.6	0.6	<0.05	0.016	<1	0.7	<0.5	
3346753	Drill Core	33.9	0.6	0.06	<0.005	<1	1.0	<0.5	
3346754	Drill Core	60.6	0.4	<0.05	<0.005	<1	0.9	<0.5	
3346755	Drill Core	36.7	0.5	<0.05	<0.005	<1	0.8	<0.5	
3346756	Drill Core	19.9	0.5	<0.05	0.006	<1	1.0	<0.5	
3346757	Drill Core	94.4	1.0	<0.05	<0.005	<1	0.8	0.5	
3346758	Drill Core	47.0	0.5	<0.05	0.006	<1	<0.5	<0.5	
3346759	Drill Core	21.8	0.6	0.05	0.005	<1	0.9	<0.5	
3346760	Rock Pulp	44.5	0.9	0.13	0.157	3	<0.5	<0.5	1.34
3346761	Drill Core	32.0	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3346762	Drill Core	43.5	0.6	0.06	<0.005	<1	1.0	<0.5	

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	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3346763	Drill Core	5.17	0.007	0.4	164.8	6.9	118	0.3	19.0	48.0	2699	9.34	3	0.4	<0.1	567	0.2	0.9	<0.1	595	8.62
3346764	Drill Core	4.03	0.009	1.4	43.9	7.2	105	<0.1	21.7	46.6	2398	9.69	3	0.4	<0.1	799	0.1	1.2	<0.1	621	11.13
3346765	Core DUP		0.007	1.3	40.0	7.1	101	<0.1	22.0	46.8	2392	9.61	4	0.4	<0.1	811	0.3	1.3	<0.1	604	11.06
3346766	Drill Core	5.26	0.037	9.0	46.6	23.9	110	0.2	35.6	61.1	2324	13.38	3	0.4	0.3	372	0.3	0.9	0.3	741	9.42
3346767	Drill Core	3.67	0.017	8.5	126.7	121.9	211	0.2	59.4	44.2	1636	8.37	3	0.8	1.2	348	1.5	0.6	<0.1	437	7.06
3346768	Drill Core	5.31	0.017	4.7	145.7	11.4	68	0.2	76.2	33.3	1286	6.17	4	1.4	3.2	1080	0.2	1.4	<0.1	255	6.37
3346769	Drill Core	4.69	<0.005	1.4	131.0	9.8	68	0.1	73.1	32.4	1252	5.94	5	1.4	2.8	959	<0.1	0.8	<0.1	238	5.88
3346770	Rock	1.43	<0.005	<0.1	1.1	0.5	3	<0.1	<0.1	0.2	101	0.11	<1	0.1	<0.1	78	<0.1	<0.1	<0.1	<1	31.90
3346771	Drill Core	4.62	0.055	2.7	126.2	14.7	74	0.2	57.8	30.2	1332	5.64	3	1.3	2.6	744	<0.1	0.6	<0.1	230	6.34
3346772	Drill Core	4.45	0.005	1.7	130.6	6.4	76	0.2	59.9	30.4	1349	5.88	4	1.4	2.6	503	<0.1	0.4	<0.1	246	5.86
3346773	Drill Core	4.70	0.007	6.5	150.7	8.3	75	0.2	74.7	32.3	1259	5.92	4	2.3	2.8	684	0.1	0.6	<0.1	260	5.99
3346774	Drill Core	4.68	<0.005	2.7	122.7	8.0	67	0.2	72.9	33.0	1215	5.92	4	1.3	2.8	868	0.2	1.0	<0.1	237	5.68
3346775	Drill Core	4.54	0.006	0.6	97.9	35.8	137	0.2	68.8	53.0	1635	10.21	3	1.1	1.3	319	0.4	0.9	0.2	614	8.54
3346776	Drill Core	4.09	<0.005	1.9	25.5	7.4	168	<0.1	76.8	66.9	1847	13.92	2	1.1	0.6	230	0.2	1.0	<0.1	770	9.61
3346777	Drill Core	4.08	<0.005	0.4	14.1	2.7	97	<0.1	66.6	62.9	1676	12.07	4	0.1	0.1	362	<0.1	1.1	<0.1	647	10.56
3346778	Drill Core	5.22	<0.005	1.7	10.3	4.5	111	<0.1	69.5	63.1	1635	12.75	4	0.2	0.2	474	0.2	1.7	<0.1	692	9.23
3346779	Drill Core	5.52	<0.005	0.3	15.7	3.8	87	<0.1	64.9	58.9	1563	11.97	3	<0.1	0.2	488	<0.1	1.9	<0.1	644	10.41
3346780	Rock Pulp	0.11	0.282	9.4	2318.8	6.5	49	0.5	11.6	14.6	662	5.63	15	1.0	1.5	537	0.3	0.8	0.1	231	2.68
3346781	Drill Core	5.23	<0.005	0.4	14.8	3.9	77	<0.1	65.7	63.3	1532	11.85	4	<0.1	0.2	543	<0.1	1.8	<0.1	652	10.84
3346782	Core DUP		<0.005	0.5	16.4	3.8	75	<0.1	65.0	63.8	1553	12.20	4	<0.1	0.2	549	0.1	1.8	<0.1	663	11.03
3346783	Drill Core	5.40	<0.005	1.0	23.4	4.6	82	<0.1	68.3	61.0	1572	12.42	4	0.1	0.2	551	0.2	1.8	<0.1	695	11.40
3346784	Drill Core	5.43	<0.005	0.3	17.5	3.6	88	<0.1	68.1	61.4	1511	12.20	2	<0.1	0.2	338	<0.1	1.0	<0.1	676	9.88
3346785	Drill Core	5.19	0.006	0.6	85.7	8.2	109	0.1	68.5	83.3	1569	13.53	4	0.4	0.4	333	0.1	1.2	<0.1	928	9.30
3346786	Drill Core	5.54	<0.005	<0.1	17.7	3.9	84	<0.1	69.7	66.8	1527	12.73	4	<0.1	0.2	444	0.1	1.2	<0.1	703	10.62
3346787	Drill Core	5.34	<0.005	0.5	37.1	3.3	101	<0.1	75.0	68.9	1542	13.89	3	0.3	0.2	291	<0.1	0.8	<0.1	763	9.66
3346788	Drill Core	5.39	<0.005	0.3	71.6	3.8	84	0.1	69.5	64.8	1518	12.95	2	0.2	0.2	289	0.1	1.1	<0.1	734	10.41
3346789	Drill Core	5.12	0.007	0.4	16.7	12.2	102	<0.1	67.2	63.3	1584	12.31	3	<0.1	0.1	454	<0.1	1.5	<0.1	701	11.07
3346790	Rock	1.41	<0.005	<0.1	0.7	0.3	4	<0.1	<0.1	0.3	89	0.10	2	0.2	<0.1	80	<0.1	<0.1	<0.1	2	33.62
3346791	Drill Core	5.35	<0.005	0.5	28.9	5.7	94	<0.1	71.0	69.5	1589	12.61	4	<0.1	0.2	449	0.2	1.3	<0.1	694	11.16
3346792	Drill Core	5.26	<0.005	0.6	16.7	3.8	101	<0.1	72.8	66.3	1600	13.33	3	<0.1	0.2	247	0.2	0.7	<0.1	706	9.64

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3346763	Drill Core	0.009	1.6	10	4.76	501	0.553	6.87	0.926	2.59	0.6	5.2	4	0.4	8.3	0.5	<0.1	1	34	52.9	0.8
3346764	Drill Core	0.008	1.3	13	4.23	319	0.547	6.10	0.816	1.79	0.6	8.3	4	0.2	7.9	0.5	<0.1	2	33	34.2	0.6
3346765	Core DUP	0.008	1.4	12	4.22	311	0.549	6.09	0.814	1.81	0.7	10.8	4	0.3	8.2	0.5	<0.1	2	34	33.3	0.6
3346766	Drill Core	0.018	2.1	27	5.36	211	0.722	4.57	0.728	1.51	0.7	19.0	5	0.5	10.7	0.9	<0.1	2	51	31.0	0.6
3346767	Drill Core	0.097	5.7	90	4.64	610	0.485	6.11	1.425	2.93	0.7	13.6	11	0.5	9.4	2.4	0.1	1	39	33.4	0.7
3346768	Drill Core	0.197	10.5	164	4.56	1320	0.343	7.11	1.308	4.88	1.0	26.6	22	0.6	11.7	4.9	0.2	2	27	24.5	<0.1
3346769	Drill Core	0.200	10.8	176	4.41	1384	0.336	6.96	1.105	3.65	0.9	26.0	22	0.5	11.6	4.4	0.2	2	25	27.2	<0.1
3346770	Rock	0.006	0.9	<1	1.84	19	0.005	0.07	0.036	0.03	<0.1	1.0	<1	<0.1	2.3	<0.1	<0.1	<1	<1	1.2	<0.1
3346771	Drill Core	0.189	10.4	124	3.94	1464	0.352	7.13	0.987	4.56	1.0	41.1	21	0.6	12.7	4.9	0.2	2	22	32.6	0.2
3346772	Drill Core	0.205	11.5	126	3.94	1210	0.391	7.32	1.904	4.35	1.0	37.3	24	0.6	14.0	5.4	0.3	2	26	38.2	0.2
3346773	Drill Core	0.197	11.0	168	4.35	1055	0.335	6.90	1.454	4.17	0.7	34.4	22	0.5	11.6	4.8	0.2	3	25	35.1	0.4
3346774	Drill Core	0.201	11.5	161	4.23	1167	0.337	7.06	1.647	3.59	0.8	30.4	22	0.4	11.6	4.3	0.2	1	25	30.7	0.1
3346775	Drill Core	0.066	4.4	55	5.06	646	0.592	4.50	0.788	4.05	0.6	20.0	10	0.6	10.5	2.7	0.1	3	57	35.5	0.9
3346776	Drill Core	0.013	1.5	16	5.99	96	0.771	3.62	0.465	2.04	1.0	16.4	4	0.4	10.8	1.1	<0.1	2	75	36.6	0.4
3346777	Drill Core	0.010	1.3	14	6.34	95	0.679	3.07	0.545	0.95	0.4	16.0	4	0.5	10.6	0.6	<0.1	<1	78	16.0	0.1
3346778	Drill Core	0.012	1.5	14	6.38	50	0.700	3.52	0.417	1.12	0.5	16.6	5	0.5	11.9	0.6	<0.1	<1	78	19.9	<0.1
3346779	Drill Core	0.009	1.4	13	6.43	44	0.678	3.38	0.400	0.71	0.4	17.8	4	0.4	11.5	0.5	<0.1	<1	79	15.3	<0.1
3346780	Rock Pulp	0.116	8.3	23	1.18	1430	0.316	8.04	2.994	3.82	0.8	41.8	18	2.2	18.4	2.9	0.2	2	10	13.5	0.3
3346781	Drill Core	0.010	1.4	14	6.55	48	0.670	3.46	0.343	0.55	0.4	18.3	4	0.4	11.7	0.4	<0.1	<1	80	15.0	<0.1
3346782	Core DUP	0.011	1.5	14	6.70	50	0.687	3.51	0.342	0.55	0.3	17.7	4	0.5	11.7	0.5	<0.1	<1	81	15.2	<0.1
3346783	Drill Core	0.011	1.4	14	6.37	43	0.688	3.46	0.334	0.38	0.3	17.3	5	0.5	11.1	0.6	<0.1	<1	74	12.2	<0.1
3346784	Drill Core	0.014	1.8	12	6.22	266	0.690	4.02	0.570	1.27	0.3	16.5	5	0.5	10.9	0.6	<0.1	<1	74	22.8	<0.1
3346785	Drill Core	0.014	1.9	12	6.44	162	0.750	3.71	0.430	1.36	0.6	16.8	5	1.8	11.9	2.5	<0.1	2	81	25.0	0.4
3346786	Drill Core	0.011	1.5	13	6.46	133	0.706	3.79	0.481	0.79	0.2	17.6	4	0.5	11.0	0.6	<0.1	<1	78	19.9	0.1
3346787	Drill Core	0.012	1.4	16	6.28	140	0.751	3.62	0.431	1.13	0.3	17.2	4	0.6	10.7	1.0	<0.1	<1	78	21.8	0.1
3346788	Drill Core	0.012	1.6	16	6.52	83	0.697	3.55	0.450	1.06	0.3	17.4	4	0.7	11.1	1.6	<0.1	1	80	21.0	0.1
3346789	Drill Core	0.012	1.4	16	5.94	57	0.659	3.78	0.379	0.80	0.4	16.1	4	0.3	10.2	0.5	<0.1	<1	71	15.3	<0.1
3346790	Rock	0.006	1.1	<1	1.54	19	0.005	0.07	0.028	0.02	<0.1	1.2	<1	<0.1	2.1	<0.1	<0.1	<1	<1	0.9	<0.1
3346791	Drill Core	0.013	1.5	16	6.46	67	0.689	3.70	0.330	0.75	0.3	17.7	4	0.4	10.8	0.7	<0.1	<1	78	16.9	0.1
3346792	Drill Core	0.011	1.6	18	6.39	142	0.721	3.77	0.480	1.54	0.2	17.0	4	0.5	11.1	0.6	<0.1	<1	76	29.8	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

CERTIFICATE OF ANALYSIS VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3346763	Drill Core	91.5	0.3	0.06	<0.005	<1	0.8	0.6	
3346764	Drill Core	60.2	0.3	<0.05	<0.005	<1	1.0	<0.5	
3346765	Core DUP	59.8	0.4	0.09	<0.005	<1	1.3	<0.5	
3346766	Drill Core	54.2	0.8	0.05	0.017	<1	1.2	<0.5	
3346767	Drill Core	104.4	0.8	<0.05	0.006	<1	0.9	0.7	
3346768	Drill Core	111.9	0.9	<0.05	0.013	<1	0.7	0.6	
3346769	Drill Core	107.3	0.8	<0.05	<0.005	<1	1.0	0.6	
3346770	Rock	0.4	<0.1	<0.05	<0.005	<1	2.4	<0.5	
3346771	Drill Core	111.7	1.0	<0.05	0.008	<1	0.9	0.6	
3346772	Drill Core	131.7	1.2	<0.05	<0.005	<1	0.9	0.9	
3346773	Drill Core	127.1	0.7	0.05	0.011	<1	0.6	0.8	
3346774	Drill Core	107.9	0.9	<0.05	0.009	<1	0.7	0.7	
3346775	Drill Core	119.0	0.8	<0.05	<0.005	<1	1.6	0.8	
3346776	Drill Core	95.1	0.8	<0.05	0.007	<1	1.1	0.6	
3346777	Drill Core	30.5	0.7	0.06	0.006	<1	1.5	<0.5	
3346778	Drill Core	40.6	0.9	0.06	0.009	<1	1.5	<0.5	
3346779	Drill Core	23.1	0.9	0.07	<0.005	<1	1.5	<0.5	
3346780	Rock Pulp	82.8	1.2	0.07	0.040	2	<0.5	<0.5	
3346781	Drill Core	15.8	0.8	0.08	<0.005	<1	1.5	<0.5	
3346782	Core DUP	16.3	0.9	0.08	0.006	<1	1.7	<0.5	
3346783	Drill Core	11.7	0.8	0.09	0.006	<1	1.5	<0.5	
3346784	Drill Core	40.9	0.8	0.07	<0.005	<1	0.7	<0.5	
3346785	Drill Core	47.2	0.8	0.07	<0.005	<1	1.1	<0.5	
3346786	Drill Core	24.7	0.9	0.10	<0.005	<1	1.2	<0.5	
3346787	Drill Core	37.5	0.7	0.08	0.006	<1	0.7	<0.5	
3346788	Drill Core	36.6	0.9	<0.05	<0.005	<1	1.1	<0.5	
3346789	Drill Core	27.0	0.7	0.05	<0.005	<1	0.7	<0.5	
3346790	Rock	0.4	<0.1	<0.05	<0.005	<1	1.2	<0.5	
3346791	Drill Core	24.8	0.8	0.08	<0.005	<1	0.9	<0.5	
3346792	Drill Core	56.5	0.9	0.13	<0.005	<1	0.8	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3346693	Drill Core	5.57	0.023	1.1	115.2	9.3	85	0.2	27.1	46.5	1471	9.08	3	0.2	0.1	699	<0.1	1.3	<0.1	515	7.96
REP 3346693	QC		0.023																		
3346695	Drill Core	4.25	0.006	0.5	223.2	4.6	104	0.4	33.0	46.0	1826	8.70	1	0.2	<0.1	546	0.2	0.7	<0.1	458	10.39
REP 3346695	QC			0.5	215.9	4.5	102	0.4	32.7	45.8	1820	8.60	2	0.2	<0.1	541	0.2	0.7	<0.1	454	10.30
3346730	Rock	1.29	<0.005	<0.1	0.7	0.5	3	<0.1	<0.1	0.2	149	0.12	4	0.1	0.1	76	<0.1	<0.1	<0.1	1	30.95
REP 3346730	QC			<0.1	0.5	0.6	3	<0.1	<0.1	0.2	149	0.12	<1	0.3	<0.1	77	<0.1	<0.1	<0.1	1	30.85
3346743	Drill Core	3.98	0.014	1.0	146.5	12.2	64	0.2	16.4	36.5	1475	8.15	7	0.2	0.1	1535	0.2	4.0	<0.1	510	10.81
REP 3346743	QC		0.014																		
3346764	Drill Core	4.03	0.009	1.4	43.9	7.2	105	<0.1	21.7	46.6	2398	9.69	3	0.4	<0.1	799	0.1	1.2	<0.1	621	11.13
REP 3346764	QC		0.008																		
3346765	Core DUP		0.007	1.3	40.0	7.1	101	<0.1	22.0	46.8	2392	9.61	4	0.4	<0.1	811	0.3	1.3	<0.1	604	11.06
REP 3346765	QC			1.4	42.3	6.7	99	<0.1	21.3	45.0	2288	9.36	3	0.3	<0.1	778	0.2	1.3	<0.1	595	10.75
3346791	Drill Core	5.35	<0.005	0.5	28.9	5.7	94	<0.1	71.0	69.5	1589	12.61	4	<0.1	0.2	449	0.2	1.3	<0.1	694	11.16
REP 3346791	QC			0.5	28.7	5.5	89	<0.1	70.0	68.1	1540	12.17	3	<0.1	0.2	431	0.1	1.3	<0.1	669	10.82
Core Reject Duplicates																					
3346687	Drill Core	3.97	0.005	2.2	183.8	26.9	114	0.3	6.4	21.8	1511	5.44	3	0.9	1.9	1244	0.6	1.1	0.1	221	4.78
DUP 3346687	QC		0.006	2.2	163.4	26.3	107	0.3	6.0	20.9	1451	5.23	2	0.8	1.7	1211	0.6	1.1	0.1	215	4.60
3346721	Drill Core	4.61	0.008	0.3	53.4	10.3	84	0.1	33.8	40.8	1880	9.41	3	0.5	0.5	477	0.4	0.8	<0.1	503	8.94
DUP 3346721	QC		0.008	0.4	57.3	9.7	83	0.2	32.9	42.7	1880	9.66	3	0.5	0.4	434	0.1	0.7	<0.1	517	8.70
3346755	Drill Core	3.21	0.008	1.4	52.7	7.5	80	<0.1	35.7	43.8	1543	8.74	6	0.1	<0.1	1317	<0.1	2.4	<0.1	500	10.10
DUP 3346755	QC		0.006	1.6	56.2	7.9	82	0.1	36.7	46.5	1567	8.98	7	<0.1	<0.1	1329	<0.1	2.3	<0.1	495	10.48
3346789	Drill Core	5.12	0.007	0.4	16.7	12.2	102	<0.1	67.2	63.3	1584	12.31	3	<0.1	0.1	454	<0.1	1.5	<0.1	701	11.07
DUP 3346789	QC		0.006	0.3	18.5	13.9	101	<0.1	67.8	64.6	1587	12.46	4	<0.1	0.2	454	0.3	1.7	<0.1	705	11.10
Reference Materials																					
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard			2.6	34.6	24.8	49	<0.1	50.7	7.9	479	6.40	10	2.8	14.9	43	<0.1	0.6	0.4	154	0.27
STD OREAS25A-4A	Standard			2.3	30.2	20.7	43	<0.1	41.7	6.7	478	6.31	9	2.4	13.3	46	<0.1	0.5	0.3	154	0.28
STD OREAS25A-4A	Standard			2.2	31.8	23.2	44	<0.1	43.5	7.2	478	6.43	10	2.6	14.1	50	<0.1	0.5	0.3	154	0.27

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3346693	Drill Core	0.019	2.0	11	3.87	320	0.488	8.05	0.984	1.99	0.7	8.7	5	0.5	7.8	0.7	<0.1	<1	37	30.3	0.7
REP 3346693	QC																				
3346695	Drill Core	0.006	1.6	8	3.91	281	0.450	7.77	0.802	2.11	1.1	8.0	4	0.4	7.0	0.7	<0.1	1	40	41.6	0.8
REP 3346695	QC	0.006	1.5	8	3.90	278	0.448	7.76	0.794	1.92	1.1	7.9	4	0.4	6.9	0.6	<0.1	1	39	40.8	0.8
3346730	Rock	0.007	1.3	<1	3.67	11	0.005	0.06	0.035	0.01	<0.1	1.2	1	<0.1	2.1	<0.1	<0.1	<1	<1	0.9	<0.1
REP 3346730	QC	0.007	1.0	<1	3.69	10	0.006	0.06	0.034	0.01	<0.1	1.3	<1	<0.1	1.9	<0.1	<0.1	<1	<1	0.9	<0.1
3346743	Drill Core	0.013	1.6	8	3.70	295	0.412	7.47	0.133	1.95	0.7	9.8	4	0.2	7.2	0.7	<0.1	2	30	8.1	0.5
REP 3346743	QC																				
3346764	Drill Core	0.008	1.3	13	4.23	319	0.547	6.10	0.816	1.79	0.6	8.3	4	0.2	7.9	0.5	<0.1	2	33	34.2	0.6
REP 3346764	QC																				
3346765	Core DUP	0.008	1.4	12	4.22	311	0.549	6.09	0.814	1.81	0.7	10.8	4	0.3	8.2	0.5	<0.1	2	34	33.3	0.6
REP 3346765	QC	0.007	1.4	12	4.05	298	0.528	5.84	0.785	1.72	0.6	10.1	4	0.3	7.7	0.5	<0.1	2	33	32.9	0.6
3346791	Drill Core	0.013	1.5	16	6.46	67	0.689	3.70	0.330	0.75	0.3	17.7	4	0.4	10.8	0.7	<0.1	<1	78	16.9	0.1
REP 3346791	QC	0.012	1.4	16	6.27	64	0.666	3.59	0.329	0.73	0.3	17.0	4	0.4	10.8	0.7	<0.1	<1	76	16.2	0.1
Core Reject Duplicates																					
3346687	Drill Core	0.189	12.6	4	1.87	1182	0.430	8.76	2.568	3.59	0.6	33.0	25	0.7	15.7	7.0	0.4	3	12	25.6	0.2
DUP 3346687	QC	0.176	11.3	4	1.77	1141	0.413	8.31	2.512	3.91	0.6	30.5	23	0.7	14.5	6.7	0.4	2	11	23.9	0.2
3346721	Drill Core	0.014	2.1	12	3.96	358	0.484	5.73	0.799	3.18	0.5	8.4	5	0.3	9.0	1.4	<0.1	2	43	30.6	1.4
DUP 3346721	QC	0.012	2.1	12	4.00	338	0.485	5.57	0.755	2.99	0.6	7.9	5	0.4	8.7	1.4	<0.1	2	43	29.7	1.5
3346755	Drill Core	0.006	1.1	5	4.06	262	0.445	7.52	0.767	1.55	0.5	8.2	3	0.4	6.1	0.3	<0.1	<1	40	23.5	0.3
DUP 3346755	QC	0.006	1.3	6	4.14	281	0.460	7.62	0.777	1.64	0.6	8.3	3	0.3	6.1	0.2	<0.1	<1	41	25.2	0.4
3346789	Drill Core	0.012	1.4	16	5.94	57	0.659	3.78	0.379	0.80	0.4	16.1	4	0.3	10.2	0.5	<0.1	<1	71	15.3	<0.1
DUP 3346789	QC	0.012	1.4	16	6.00	54	0.669	3.76	0.369	0.80	0.5	16.3	4	0.4	10.3	0.5	<0.1	<1	72	15.0	<0.1
Reference Materials																					
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard	0.049	21.6	112	0.33	146	0.851	8.72	0.135	0.48	1.8	141.9	43	3.4	9.5	18.0	1.4	<1	14	35.7	<0.1
STD OREAS25A-4A	Standard	0.048	17.7	98	0.36	144	0.850	8.74	0.140	0.50	1.8	145.2	43	3.7	9.0	17.9	1.3	1	12	38.6	<0.1
STD OREAS25A-4A	Standard	0.047	17.9	103	0.35	150	0.879	8.57	0.149	0.52	2.0	156.7	44	3.7	9.5	20.0	1.4	<1	12	36.6	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
Pulp Duplicates									
3346693	Drill Core	65.1	0.4	<0.05	<0.005	2	<0.5	<0.5	
REP 3346693	QC								
3346695	Drill Core	81.4	0.4	<0.05	<0.005	2	<0.5	<0.5	
REP 3346695	QC	77.3	0.4	<0.05	<0.005	2	<0.5	<0.5	
3346730	Rock	0.5	<0.1	<0.05	<0.005	<1	2.6	<0.5	
REP 3346730	QC	0.5	<0.1	<0.05	<0.005	<1	3.2	<0.5	
3346743	Drill Core	28.8	0.5	<0.05	<0.005	<1	1.0	<0.5	
REP 3346743	QC								
3346764	Drill Core	60.2	0.3	<0.05	<0.005	<1	1.0	<0.5	
REP 3346764	QC								
3346765	Core DUP	59.8	0.4	0.09	<0.005	<1	1.3	<0.5	
REP 3346765	QC	58.3	0.5	<0.05	<0.005	<1	1.0	<0.5	
3346791	Drill Core	24.8	0.8	0.08	<0.005	<1	0.9	<0.5	
REP 3346791	QC	24.7	0.9	0.07	<0.005	<1	<0.5	<0.5	
Core Reject Duplicates									
3346687	Drill Core	70.9	1.0	<0.05	<0.005	2	<0.5	0.5	
DUP 3346687	QC	70.5	0.9	<0.05	<0.005	2	<0.5	0.5	
3346721	Drill Core	110.2	0.4	<0.05	<0.005	<1	1.4	0.7	
DUP 3346721	QC	100.9	0.4	<0.05	<0.005	<1	0.8	0.7	
3346755	Drill Core	36.7	0.5	<0.05	<0.005	<1	0.8	<0.5	
DUP 3346755	QC	38.8	0.5	0.06	<0.005	<1	0.5	<0.5	
3346789	Drill Core	27.0	0.7	0.05	<0.005	<1	0.7	<0.5	
DUP 3346789	QC	27.1	0.7	0.06	<0.005	<1	1.2	<0.5	
Reference Materials									
STD CCU-1E	Standard								23.49
STD OREAS25A-4A	Standard	53.1	4.0	0.09	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	55.0	4.1	0.11	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	55.3	4.2	0.09	<0.005	2	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.2	31.0	23.6	42	<0.1	43.7	6.9	481	6.41	10	2.7	14.7	48	<0.1	0.6	0.4	154	0.26
STD OREAS45E	Standard			2.6	787.7	18.9	51	0.4	476.8	60.5	561	25.76	16	2.5	13.3	16	<0.1	1.0	0.3	327	0.06
STD OREAS45E	Standard			2.2	791.2	18.1	47	0.3	474.7	59.2	590	25.26	17	2.4	12.8	19	<0.1	0.9	0.2	324	0.06
STD OREAS45H	Standard			1.4	784.3	12.1	41	0.1	443.0	89.6	404	21.01	18	1.6	7.5	31	<0.1	0.6	0.1	272	0.14
STD OREAS45H	Standard			1.4	788.6	12.8	37	0.1	443.0	90.6	400	20.78	18	1.7	7.7	30	<0.1	0.5	0.2	274	0.13
STD OREAS97	Standard																				
STD OXB130	Standard		0.123																		
STD OXG141	Standard		0.963																		
STD OXG141	Standard		0.948																		
STD OXN155	Standard		7.711																		
STD OXN155	Standard		7.274																		
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OXB130 Expected			0.125																		
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD CCU-1E Expected																					
STD OREAS97 Expected																					
BLK	Blank			<0.1	0.4	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	0.3	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	0.3	<0.2	5	<0.01	<1	<0.1	<0.1	2	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
Prep Wash																					

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.053	17.6	115	0.36	144	0.901	8.72	0.141	0.52	1.8	146.7	43	3.7	9.4	18.6	1.3	1	12	38.7	<0.1
STD OREAS45E	Standard	0.034	12.2	1056	0.16	246	0.538	7.05	0.064	0.34	1.0	100.5	25	1.2	8.0	6.1	0.6	<1	93	6.8	<0.1
STD OREAS45E	Standard	0.038	10.1	1054	0.19	264	0.534	7.07	0.070	0.39	1.0	94.6	23	1.1	7.7	6.1	0.5	<1	99	7.0	<0.1
STD OREAS45H	Standard	0.025	12.2	688	0.29	357	0.859	8.35	0.108	0.24	1.1	131.9	26	1.9	9.8	14.4	1.0	2	61	15.3	<0.1
STD OREAS45H	Standard	0.025	11.8	711	0.29	362	0.883	8.33	0.097	0.23	0.9	127.2	25	2.1	9.3	14.0	0.9	1	61	13.8	<0.1
STD OREAS97	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OXB130 Expected																					
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD CCU-1E Expected																					
STD OREAS97 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.003	<0.01	<0.1	0.4	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	0.02	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1
BLK	Blank																				
Prep Wash																					

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Project: MAX
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QUALITY CONTROL REPORT VAN20001259.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
STD OREAS25A-4A	Standard	54.2	3.9	0.14	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	21.0	3.1	0.09	<0.005	4	<0.5	<0.5	
STD OREAS45E	Standard	21.4	2.8	0.09	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	23.1	3.5	0.12	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	22.4	3.2	0.07	<0.005	1	<0.5	<0.5	
STD OREAS97	Standard								6.33
STD OXB130	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15	
STD OXB130 Expected									
STD OXG141 Expected									
STD OXN155 Expected									
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35	
STD OREAS45H Expected		22.5	3.6	0.1		2.02			
STD CCU-1E Expected									22.88
STD OREAS97 Expected									6.31
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	0.2	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	0.4	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								<0.01
Prep Wash									

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
ROCK-VAN	Prep Blank		<0.005	0.7	6.4	2.2	32	<0.1	0.6	3.4	569	1.93	3	1.3	3.1	172	<0.1	0.1	<0.1	30	1.36
ROCK-VAN	Prep Blank		<0.005	0.7	6.0	2.3	32	<0.1	0.8	3.3	580	1.96	3	1.4	3.0	177	<0.1	0.1	<0.1	30	1.40

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

		MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
ROCK-VAN	Prep Blank	0.035	13.8	5	0.45	664	0.177	6.76	3.696	1.41	0.2	47.4	25	0.8	14.4	5.2	0.4	<1	6	2.4	<0.1
ROCK-VAN	Prep Blank	0.035	13.0	5	0.45	644	0.179	6.71	3.728	1.37	0.2	48.6	24	0.9	14.3	5.2	0.4	<1	6	2.4	<0.1

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 14, 2020

QUALITY CONTROL REPORT VAN20001259.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
ROCK-VAN	Prep Blank	27.4	1.6	0.05	<0.005	<1	<0.5	<0.5	
ROCK-VAN	Prep Blank	25.7	1.7	0.06	<0.005	<1	<0.5	<0.5	

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 22, 2020
Analysis Start:	July 22, 2020
Report Date:	July 24, 2020
Page:	1 of 2

CERTIFICATE OF ANALYSIS VAN20001259R.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_12
P.O. Number	M22165
Number of Samples:	11

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
MA200	11	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
EX001	11	Special handling charge			VAN

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001259R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
3346675	Drill Core	0.3	34.9	6.2	90	<0.1	30.5	48.6	1501	9.44	4	0.3	0.6	565	0.1	1.2	<0.1	520	8.36	0.036	3.3
3346676	Drill Core	1.0	162.8	7.5	88	0.1	6.0	23.7	1255	5.44	3	0.9	1.4	775	0.2	0.5	<0.1	241	4.68	0.181	9.5
3346677	Drill Core	0.2	91.5	10.1	89	0.1	20.5	37.0	1334	7.06	3	0.2	0.3	762	0.5	1.1	<0.1	377	7.24	0.038	2.9
3346678	Drill Core	1.6	136.3	15.7	92	0.2	5.8	22.2	1410	5.17	3	0.6	1.4	659	0.2	0.5	<0.1	209	4.08	0.186	8.2
3346679	Drill Core	2.1	133.9	12.9	97	0.1	6.0	20.9	1448	5.08	3	0.7	1.4	638	0.5	0.6	<0.1	207	4.17	0.193	6.6
3346680	Rock Pulp	333.9	5140.1	19.5	72	1.2	34.3	16.9	535	4.72	58	4.4	15.3	334	0.4	3.3	1.3	117	2.47	0.097	29.1
3346681	Drill Core	2.8	127.9	7.8	83	0.1	5.7	23.0	1335	5.18	3	0.6	1.3	894	<0.1	1.0	<0.1	209	3.99	0.195	7.0
3346682	Drill Core	3.0	145.4	17.1	95	0.2	5.4	22.6	1501	5.02	3	1.0	1.7	906	0.1	0.9	<0.1	221	5.93	0.198	10.5
3346683	Drill Core	40.9	129.6	28.7	90	0.2	5.5	20.3	1336	4.85	4	0.9	1.4	732	0.5	0.6	0.1	199	4.74	0.188	7.7
3346684	Drill Core	9.7	136.4	27.5	97	0.2	5.2	21.0	1443	4.96	4	0.7	1.5	609	0.3	0.8	0.1	208	4.43	0.193	8.5
3346685	Core DUP	9.5	138.8	28.1	93	0.2	5.4	20.3	1447	4.98	4	0.8	1.8	641	0.3	0.8	0.1	207	4.45	0.196	9.8

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001259R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
3346675	Drill Core	13	4.35	369	0.537	8.15	1.352	2.65	2.2	13.1	8	0.4	11.4	1.6	<0.1	2	38	38.0	0.2	79.4	0.7
3346676	Drill Core	2	1.99	1299	0.455	8.37	2.578	3.47	0.5	31.8	22	0.7	15.2	5.8	0.3	2	11	29.5	0.4	67.2	1.1
3346677	Drill Core	8	3.16	503	0.420	8.86	1.386	2.31	0.9	7.9	7	0.3	7.9	1.4	<0.1	1	27	42.5	0.3	52.8	0.3
3346678	Drill Core	3	1.83	1091	0.451	7.98	2.771	3.69	0.8	28.1	20	0.6	14.7	6.7	0.4	1	10	35.8	0.1	68.4	0.7
3346679	Drill Core	4	1.78	1190	0.439	7.78	2.645	3.97	0.8	31.8	18	0.6	12.7	7.0	0.4	2	8	40.1	0.1	55.2	1.0
3346680	Rock Pulp	64	1.40	379	0.483	6.93	2.059	2.94	2.9	82.1	62	3.3	22.5	18.7	1.4	3	11	28.1	0.7	155.0	2.7
3346681	Drill Core	3	1.80	1108	0.439	8.01	3.164	2.49	0.5	28.4	17	0.6	12.7	6.4	0.4	1	9	22.0	<0.1	28.8	0.8
3346682	Drill Core	3	1.82	1410	0.403	8.46	0.961	5.26	1.1	24.1	23	0.7	14.7	6.0	0.3	1	10	29.4	0.5	82.7	0.5
3346683	Drill Core	3	1.77	964	0.398	7.65	2.063	3.80	1.4	26.9	18	0.6	12.8	5.9	0.3	2	8	20.2	0.6	51.2	0.7
3346684	Drill Core	3	1.85	1164	0.408	7.99	2.202	4.32	5.8	23.0	19	0.6	13.1	5.7	0.3	2	9	16.2	0.5	64.7	0.7
3346685	Core DUP	3	1.87	1197	0.414	8.19	2.198	4.38	6.4	24.9	21	0.6	14.1	6.0	0.4	2	10	16.8	0.4	77.9	0.8

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

CERTIFICATE OF ANALYSIS VAN20001259R.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
3346675	Drill Core	<0.05	<0.005	<1	1.3	<0.5
3346676	Drill Core	<0.05	0.008	<1	<0.5	<0.5
3346677	Drill Core	<0.05	<0.005	<1	0.8	<0.5
3346678	Drill Core	<0.05	<0.005	<1	<0.5	<0.5
3346679	Drill Core	<0.05	<0.005	<1	<0.5	<0.5
3346680	Rock Pulp	0.05	0.197	4	0.6	1.0
3346681	Drill Core	0.05	<0.005	<1	<0.5	<0.5
3346682	Drill Core	<0.05	<0.005	<1	0.6	<0.5
3346683	Drill Core	<0.05	0.039	1	0.7	0.5
3346684	Drill Core	<0.05	<0.005	1	<0.5	<0.5
3346685	Core DUP	<0.05	0.011	1	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001259R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
	MDL	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.001	0.1
Reference Materials																					
STD OREAS25A-4A	Standard	2.4	35.8	24.7	45	<0.1	47.0	7.7	499	6.70	10	2.7	14.8	44	<0.1	0.6	0.3	165	0.27	0.050	19.1
STD OREAS45E	Standard	2.2	775.5	17.9	46	0.3	468.7	59.0	555	24.91	16	2.4	12.9	17	<0.1	1.0	0.2	326	0.08	0.034	10.9
STD OREAS25A-4A Expected		2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301	0.048	21.8
STD OREAS45E Expected		2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065	0.034	11
BLK	Blank	<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.001	<0.1

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001259R.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf
	Unit	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	MDL	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1	0.1	0.1
Reference Materials																					
STD OREAS25A-4A	Standard	112	0.38	146	0.924	9.00	0.152	0.48	1.8	155.4	47	3.5	9.7	19.6	1.4	<1	12	36.3	<0.1	54.8	4.3
STD OREAS45E	Standard	980	0.18	250	0.530	6.82	0.070	0.33	1.1	92.6	24	1.2	7.9	6.2	0.5	<1	91	6.6	<0.1	20.2	3.0
STD OREAS25A-4A Expected		115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047	61	4.14
STD OREAS45E Expected		979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046	21.2	3.11
BLK	Blank	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	0.1	<0.1	0.1	<0.1

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 24, 2020

QUALITY CONTROL REPORT VAN20001259R.1

	Method	MA200	MA200	MA200	MA200	MA200
	Analyte	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm
	MDL	0.05	0.005	1	0.5	0.5
Reference Materials						
STD OREAS25A-4A	Standard	0.12	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A Expected		0.09		2.4		0.35
STD OREAS45E Expected		0.099		2.97	0.1	0.15
BLK	Blank	<0.05	0.005	<1	<0.5	<0.5

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 03, 2020
Analysis Start:	July 10, 2020
Report Date:	July 16, 2020
Page:	1 of 7

CERTIFICATE OF ANALYSIS VAN20001267.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_11
P.O. Number	M22165
Number of Samples:	170

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	158	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	4	Split samples by riffle splitter			VAN
PUL85	4	Pulverize to 85% passing 200 mesh			VAN
SLBHP	8	Sort, label and box pulps			VAN
FA430	170	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	170	Environmental disposal charge-Fire assay lead waste			VAN
MA200	170	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

BUREAU VERITAS
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Canada

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486504	Drill Core	5.23	0.007	0.4	341.0	15.3	107	0.3	24.3	48.0	1697	9.88	3	0.4	0.3	297	0.2	1.2	0.1	478	7.78
3486505	Drill Core	2.41	0.007	1.5	438.2	4.1	108	0.4	21.7	50.7	1728	10.82	3	0.7	0.3	316	0.2	0.8	<0.1	579	8.73
3486506	Drill Core	3.35	0.006	0.7	425.0	31.6	97	0.4	12.8	48.3	1593	10.15	6	0.6	0.3	584	0.2	0.9	0.2	672	8.00
3486507	Drill Core	2.90	0.005	0.5	273.5	7.9	86	0.2	15.2	51.4	1578	10.01	5	0.2	0.2	1200	0.1	1.4	<0.1	553	8.39
3486508	Drill Core	2.76	0.008	0.5	271.7	7.2	80	0.2	13.4	47.3	1485	9.19	4	0.2	0.2	916	0.1	1.0	<0.1	487	7.45
3486509	Drill Core	5.17	0.007	0.8	389.6	8.2	111	0.3	11.0	49.2	1834	9.57	7	1.0	0.2	345	0.2	0.5	<0.1	643	7.88
3486510	Rock	1.32	<0.005	<0.1	1.2	0.5	2	<0.1	<0.1	0.7	141	0.12	<1	<0.1	<0.1	76	<0.1	<0.1	<0.1	3	34.15
3486511	Drill Core	4.33	0.006	0.8	563.6	7.6	75	0.4	10.1	46.2	1262	8.33	5	0.3	0.2	1103	0.2	0.5	<0.1	457	8.25
3486512	Drill Core	4.81	0.008	0.8	444.1	9.5	70	0.3	8.8	42.0	1137	8.24	6	0.2	0.2	1460	0.2	0.9	<0.1	466	8.80
3486513	Drill Core	5.36	0.006	5.5	489.3	13.0	230	0.7	10.4	42.1	1703	7.89	14	1.6	0.2	500	1.8	0.5	<0.1	607	6.84
3486514	Drill Core	2.72	0.011	1.6	474.0	8.2	68	0.4	11.3	43.6	1110	8.28	4	0.3	0.2	925	0.2	0.4	<0.1	524	8.32
3486515	Core DUP		0.009	1.6	508.0	8.8	73	0.4	12.1	45.9	1179	8.82	5	0.3	0.2	980	0.2	0.4	<0.1	563	8.84
3486516	Drill Core	5.14	0.013	0.6	671.6	13.6	91	0.4	13.3	43.0	1199	8.56	3	0.4	0.2	895	0.6	0.4	0.1	549	8.42
3486517	Drill Core	5.26	0.007	1.5	315.7	14.7	76	0.3	11.6	31.6	853	5.77	3	0.2	0.1	745	0.2	0.5	<0.1	384	5.92
3486518	Drill Core	5.42	0.009	1.4	358.5	9.0	55	0.3	12.1	33.0	878	6.04	3	0.2	0.1	1023	0.2	0.7	<0.1	344	6.86
3486519	Drill Core	5.34	0.009	0.8	372.2	11.8	63	0.4	12.2	35.2	1039	7.15	3	<0.1	<0.1	1249	0.2	0.8	<0.1	405	8.14
3486520	Rock Pulp	0.13	0.225	96.6	2660.4	19.9	80	0.4	60.4	14.8	538	4.23	17	4.1	16.7	295	<0.1	2.0	0.6	127	2.52
3486521	Drill Core	5.08	0.011	2.5	284.5	10.4	72	0.3	13.3	35.9	1101	6.72	5	0.7	0.5	494	0.2	0.4	0.1	404	5.55
3486522	Drill Core	5.20	0.006	1.5	239.9	8.0	80	0.2	18.2	39.2	1333	8.78	3	0.6	0.9	760	0.1	0.3	<0.1	477	6.43
3486523	Drill Core	5.38	0.005	0.9	267.8	7.3	80	0.2	15.9	42.1	1419	9.89	4	0.6	0.5	768	0.2	0.5	<0.1	625	8.78
3486524	Drill Core	5.55	0.006	1.3	258.4	12.8	84	0.3	14.4	41.8	1246	8.83	2	1.0	0.7	791	0.2	0.3	0.1	519	7.50
3486525	Drill Core	5.78	0.009	0.5	415.1	4.9	80	0.3	16.9	46.1	1469	9.15	2	0.3	0.2	879	0.1	0.3	<0.1	516	9.22
3486526	Drill Core	4.96	0.008	0.6	306.2	8.3	76	0.2	14.3	44.6	1398	8.64	2	0.4	0.3	785	0.1	0.3	<0.1	486	8.86
3486527	Drill Core	3.64	0.009	0.7	352.7	18.3	83	0.3	15.2	46.1	1431	8.93	3	0.2	0.2	1053	0.3	0.4	<0.1	499	9.21
3486528	Drill Core	3.93	0.015	1.5	314.3	9.2	80	0.4	14.8	41.3	1369	7.90	11	0.4	0.1	595	0.2	0.5	0.1	416	8.18
3486529	Drill Core	5.35	0.008	0.7	411.9	12.0	82	0.4	16.5	44.6	1339	8.58	3	0.3	0.1	1077	0.3	0.5	<0.1	466	9.26
3486530	Rock	1.23	<0.005	<0.1	1.4	0.4	2	<0.1	<0.1	0.7	142	0.12	<1	<0.1	<0.1	74	<0.1	<0.1	<0.1	2	33.10
3486531	Drill Core	4.95	0.010	5.3	329.9	9.8	101	0.3	19.2	46.2	1450	9.44	13	0.4	0.3	491	0.1	0.6	<0.1	546	7.37
3486532	Drill Core	4.94	0.009	2.0	706.8	21.6	83	0.6	22.6	53.5	1438	11.35	3	0.3	0.2	734	0.3	0.8	0.1	709	9.46
3486533	Drill Core	5.73	0.009	0.9	532.6	6.5	101	0.4	29.8	66.8	1800	13.84	2	0.2	0.3	431	0.2	0.6	<0.1	799	9.81

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486504	Drill Core	0.284	5.3	49	3.92	315	0.597	6.25	1.230	2.86	0.2	11.3	12	0.4	14.0	1.2	0.1	1	33	68.2	0.5
3486505	Drill Core	0.229	4.0	41	3.91	323	0.627	5.70	0.845	3.20	0.2	11.2	9	0.4	12.8	1.1	0.1	2	33	76.5	0.6
3486506	Drill Core	0.206	3.8	7	3.23	535	0.629	7.66	0.678	3.72	0.2	8.4	9	0.4	10.9	1.4	0.1	3	28	87.8	0.8
3486507	Drill Core	0.171	3.6	7	3.76	261	0.554	8.85	0.652	2.59	0.2	10.7	8	0.4	10.3	0.8	0.1	<1	28	48.0	0.1
3486508	Drill Core	0.042	2.2	8	3.82	286	0.511	8.43	0.858	2.81	0.2	10.8	5	0.4	8.7	0.9	0.1	<1	29	52.7	0.2
3486509	Drill Core	0.140	3.0	8	3.88	404	0.535	7.29	0.703	3.99	0.2	8.3	7	0.5	9.9	2.0	0.1	4	27	103.4	1.2
3486510	Rock	0.007	1.0	1	2.29	13	0.010	0.08	0.046	0.03	<0.1	1.3	<1	0.1	2.0	<0.1	<0.1	<1	<1	1.4	<0.1
3486511	Drill Core	0.313	3.8	3	2.86	318	0.490	9.20	0.755	2.73	0.4	6.9	10	0.3	9.4	0.9	0.1	<1	17	53.5	0.2
3486512	Drill Core	0.032	2.0	3	2.66	295	0.492	9.99	0.931	2.06	0.3	8.3	5	0.3	6.3	0.8	0.1	<1	20	37.9	0.2
3486513	Drill Core	0.028	1.9	3	2.78	490	0.491	8.39	0.510	4.78	0.4	6.6	4	0.5	5.9	2.4	0.1	4	19	137.5	2.0
3486514	Drill Core	0.031	2.1	3	2.86	389	0.485	9.17	0.812	3.21	0.3	7.4	4	0.4	6.3	1.0	0.1	1	21	74.6	0.7
3486515	Core DUP	0.033	2.2	3	3.07	410	0.531	9.93	0.856	3.53	0.3	8.4	5	0.4	6.8	1.1	0.1	1	23	81.0	0.7
3486516	Drill Core	0.027	2.0	4	2.93	338	0.510	9.09	0.910	2.76	0.3	9.5	4	0.5	6.4	1.5	0.1	2	22	57.1	0.6
3486517	Drill Core	0.024	1.1	3	2.41	432	0.375	8.75	1.119	3.48	0.5	4.8	3	0.5	3.7	0.9	<0.1	2	14	84.1	0.6
3486518	Drill Core	0.017	1.0	2	2.34	366	0.347	8.71	0.866	2.97	0.5	4.0	2	0.3	3.2	0.9	<0.1	1	12	74.7	0.5
3486519	Drill Core	0.022	1.5	2	2.70	317	0.416	9.75	0.809	3.15	0.6	4.4	3	0.3	4.4	0.6	0.1	<1	17	71.4	0.3
3486520	Rock Pulp	0.097	28.9	82	1.45	969	0.476	7.08	2.063	3.02	3.4	67.4	60	3.1	21.8	17.1	1.2	3	13	34.1	0.3
3486521	Drill Core	0.068	3.4	11	2.62	605	0.432	8.33	1.170	4.15	0.4	6.6	8	0.6	8.2	2.7	0.2	2	20	100.4	1.6
3486522	Drill Core	0.100	5.4	14	3.36	610	0.538	7.83	1.956	3.05	0.3	13.6	11	0.6	12.2	3.0	0.2	1	32	65.4	0.6
3486523	Drill Core	0.029	2.5	2	3.74	322	0.585	7.62	0.930	2.57	0.3	14.1	6	0.5	9.5	1.6	0.1	2	40	50.2	0.3
3486524	Drill Core	0.030	2.8	3	3.24	416	0.492	7.68	1.227	3.24	0.2	9.9	6	0.5	8.5	2.2	0.1	2	32	82.7	1.3
3486525	Drill Core	0.023	2.1	5	3.78	225	0.503	8.88	0.878	2.19	0.2	10.0	5	0.4	8.5	1.0	<0.1	<1	31	49.0	0.2
3486526	Drill Core	0.017	2.3	8	3.71	260	0.481	8.67	0.986	2.30	0.2	10.0	5	0.4	8.2	1.1	<0.1	<1	31	57.5	0.3
3486527	Drill Core	0.020	2.0	5	3.79	309	0.482	8.57	0.677	2.35	0.3	10.1	5	0.4	8.4	0.7	<0.1	<1	34	47.4	0.3
3486528	Drill Core	0.012	1.9	5	3.57	418	0.423	7.73	0.794	3.38	0.3	6.0	4	0.4	7.1	0.9	<0.1	2	28	88.0	2.1
3486529	Drill Core	0.015	2.1	6	3.69	236	0.468	8.47	0.739	2.50	0.2	7.6	4	0.4	7.4	1.3	<0.1	3	30	64.4	1.1
3486530	Rock	0.006	0.9	1	2.52	10	0.006	0.06	0.030	0.02	<0.1	1.3	<1	<0.1	1.8	<0.1	<0.1	<1	<1	1.5	<0.1
3486531	Drill Core	0.018	2.4	3	3.97	401	0.525	7.40	0.813	3.55	0.4	8.8	5	0.6	8.1	1.0	<0.1	2	37	91.7	1.6
3486532	Drill Core	0.014	1.8	3	4.16	179	0.628	6.82	0.740	1.42	0.4	13.5	4	0.6	8.4	1.2	<0.1	2	46	39.3	0.5
3486533	Drill Core	0.018	1.9	6	5.34	101	0.767	4.21	0.535	1.04	0.3	19.5	5	0.7	11.5	1.1	<0.1	1	58	32.6	0.3

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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486504	Drill Core	106.9	0.5	<0.05	<0.005	<1	<0.5	0.7
3486505	Drill Core	114.2	0.5	0.05	<0.005	1	<0.5	0.7
3486506	Drill Core	113.0	0.4	<0.05	<0.005	1	<0.5	0.6
3486507	Drill Core	72.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486508	Drill Core	63.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486509	Drill Core	128.5	0.4	<0.05	<0.005	1	<0.5	0.7
3486510	Rock	1.0	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486511	Drill Core	39.4	0.3	<0.05	<0.005	<1	<0.5	<0.5
3486512	Drill Core	34.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486513	Drill Core	101.4	0.3	<0.05	0.014	2	<0.5	0.9
3486514	Drill Core	61.3	0.3	<0.05	<0.005	1	<0.5	0.5
3486515	Core DUP	69.5	0.4	<0.05	<0.005	1	<0.5	0.6
3486516	Drill Core	61.2	0.4	<0.05	<0.005	1	<0.5	<0.5
3486517	Drill Core	38.1	0.2	<0.05	<0.005	<1	<0.5	0.5
3486518	Drill Core	28.3	0.2	<0.05	<0.005	1	<0.5	<0.5
3486519	Drill Core	47.3	0.2	<0.05	<0.005	<1	<0.5	<0.5
3486520	Rock Pulp	164.5	2.1	0.06	<0.005	1	<0.5	0.9
3486521	Drill Core	98.1	0.4	<0.05	0.007	2	<0.5	0.7
3486522	Drill Core	98.8	0.6	<0.05	<0.005	1	<0.5	0.6
3486523	Drill Core	72.1	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486524	Drill Core	108.8	0.4	<0.05	0.006	2	<0.5	0.6
3486525	Drill Core	68.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486526	Drill Core	74.8	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486527	Drill Core	71.4	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486528	Drill Core	125.0	0.4	<0.05	0.008	2	<0.5	0.7
3486529	Drill Core	84.0	0.4	<0.05	<0.005	1	<0.5	<0.5
3486530	Rock	0.5	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486531	Drill Core	120.5	0.4	<0.05	0.008	1	<0.5	0.6
3486532	Drill Core	45.2	0.6	0.05	<0.005	1	<0.5	<0.5
3486533	Drill Core	36.4	0.9	0.06	<0.005	<1	<0.5	<0.5

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	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486534	Drill Core	5.76	0.014	0.6	424.2	52.3	94	0.5	23.2	50.3	1390	10.49	5	0.8	0.3	472	0.3	0.4	0.4	653	8.10
3486535	Drill Core	5.12	0.013	0.4	329.2	20.6	80	0.3	22.6	45.2	1235	8.74	2	0.4	0.1	623	0.2	0.4	0.2	482	8.19
3486536	Drill Core	5.40	0.008	0.5	81.9	12.2	71	0.1	21.0	43.2	1225	8.33	3	0.3	0.2	590	0.1	0.6	0.1	472	8.41
3486537	Drill Core	5.21	0.006	0.7	75.4	7.5	77	<0.1	25.0	46.5	1339	8.88	4	0.2	0.1	916	0.1	0.7	<0.1	473	8.92
3486538	Drill Core	5.08	0.010	0.4	102.4	7.7	80	0.1	24.9	45.8	1213	8.81	4	0.5	0.2	701	0.1	0.6	0.1	512	8.77
3486539	Drill Core	4.82	0.008	0.6	88.6	40.2	66	0.2	23.9	42.9	1275	8.49	5	0.8	0.2	332	0.3	0.4	0.4	514	9.22
3486540	Rock Pulp	0.13	0.217	98.2	2733.4	20.9	80	0.5	60.7	15.6	549	4.33	17	4.5	17.0	308	0.1	2.1	0.7	126	2.61
3486541	Drill Core	4.98	<0.005	0.3	73.7	6.9	73	<0.1	27.4	46.6	1295	9.32	4	0.4	0.2	838	0.2	0.6	<0.1	535	9.31
3486542	Drill Core	4.77	0.005	0.7	207.1	7.9	79	0.2	18.8	34.2	1323	6.99	3	0.8	1.2	822	0.2	0.4	<0.1	383	6.65
3486543	Drill Core	2.65	<0.005	0.5	104.6	15.7	71	0.1	25.7	42.4	1309	8.85	4	0.4	0.5	934	0.1	0.7	<0.1	498	9.20
3486544	Drill Core	5.15	0.005	0.5	31.2	4.1	77	<0.1	30.5	50.6	1488	10.00	8	0.4	0.2	301	<0.1	0.5	<0.1	538	9.02
3486545	Drill Core	2.91	0.007	0.4	28.1	4.5	77	<0.1	26.7	45.5	1358	9.23	4	0.2	0.1	665	0.1	0.7	<0.1	496	10.56
3486546	Drill Core	3.32	<0.005	0.8	8.6	7.6	32	<0.1	12.0	15.3	604	4.37	4	<0.1	<0.1	1488	<0.1	2.0	<0.1	184	9.60
3486547	Drill Core	4.60	<0.005	0.4	29.4	5.5	84	<0.1	38.1	58.2	1605	11.40	5	0.1	0.2	584	0.1	0.6	<0.1	570	10.43
3486548	Drill Core	5.89	0.005	0.4	44.9	5.3	87	<0.1	37.4	53.0	1496	10.82	4	0.2	0.2	798	0.1	0.5	<0.1	568	9.66
3486549	Drill Core	4.95	<0.005	0.5	113.4	11.2	84	0.1	30.2	43.9	1242	9.21	3	0.5	0.3	793	0.2	0.4	<0.1	540	8.44
3486550	Rock	1.25	<0.005	<0.1	0.9	0.4	3	<0.1	<0.1	0.9	146	0.13	<1	<0.1	<0.1	75	<0.1	<0.1	<0.1	2	32.24
3486551	Drill Core	4.44	0.006	0.8	83.8	6.7	91	0.1	32.8	47.0	1416	10.31	4	0.4	0.3	995	0.1	0.6	0.1	539	8.69
3486552	Drill Core	4.11	0.105	14.6	66.3	46.4	56	0.2	6.5	21.7	904	6.35	27	1.6	1.3	476	0.2	0.6	0.4	258	3.63
3486553	Drill Core	4.76	0.034	1.7	112.3	15.6	103	0.2	35.5	55.5	2020	11.53	19	1.2	0.4	408	0.3	0.7	0.1	668	8.54
3486554	Drill Core	4.26	0.012	2.2	142.0	4.8	64	0.2	135.7	40.2	1188	6.25	3	1.1	1.8	471	0.1	0.3	<0.1	244	5.40
3486555	Core DUP		0.009	2.1	132.6	4.6	64	0.2	130.4	39.1	1181	6.12	3	1.1	1.8	456	0.1	0.3	<0.1	243	5.37
3486556	Drill Core	5.35	<0.005	1.6	132.3	2.3	65	0.1	198.0	46.7	1233	6.49	2	0.8	1.5	421	<0.1	0.4	<0.1	228	6.06
3486557	Drill Core	5.19	0.008	1.9	107.6	3.3	81	0.1	124.8	42.8	1650	7.53	5	0.8	1.0	389	0.1	0.4	<0.1	348	7.10
3486558	Drill Core	4.24	<0.005	3.2	142.9	15.9	91	0.2	4.9	18.2	1234	4.61	1	1.0	1.7	930	0.4	0.4	0.1	204	3.49
3486559	Drill Core	5.02	0.005	9.2	164.0	22.0	85	0.3	4.7	18.2	1225	4.41	3	1.3	1.9	1086	0.2	0.5	0.2	205	4.18
3486560	Rock Pulp	0.13	0.218	98.1	2695.9	20.5	79	0.5	60.7	15.7	554	4.39	18	4.3	16.8	305	0.1	2.1	0.7	127	2.58
3486561	Drill Core	2.25	<0.005	7.8	170.8	10.2	81	0.2	5.4	17.3	1123	4.46	2	1.2	2.0	968	0.2	0.5	0.1	202	3.71
3486562	Drill Core	4.44	<0.005	4.1	77.1	5.0	68	0.1	40.7	23.9	1118	4.95	1	0.5	1.0	507	<0.1	0.4	<0.1	203	6.17
3486563	Drill Core	5.16	0.020	0.4	298.7	31.7	154	0.4	41.9	59.8	2259	13.75	18	1.1	0.4	297	0.6	1.0	0.2	825	8.16

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486534	Drill Core	0.017	2.2	6	3.75	425	0.577	6.71	1.090	2.75	0.3	12.1	5	0.7	8.7	2.7	<0.1	5	39	57.2	2.0
3486535	Drill Core	0.014	1.9	6	3.42	385	0.480	7.93	0.954	2.74	0.2	8.7	4	0.5	6.9	1.4	<0.1	2	31	69.2	1.0
3486536	Drill Core	0.014	1.8	6	3.65	323	0.425	8.06	0.864	2.75	1.3	9.2	4	0.4	7.2	1.2	<0.1	2	30	66.2	0.6
3486537	Drill Core	0.013	1.8	6	3.85	303	0.451	8.41	0.653	2.59	0.3	9.6	4	0.4	7.0	1.1	0.4	2	32	55.0	0.4
3486538	Drill Core	0.013	2.1	5	3.62	360	0.444	7.94	0.940	2.80	0.8	10.8	4	0.5	7.0	1.6	0.3	3	32	60.1	1.1
3486539	Drill Core	0.013	1.9	4	3.56	453	0.435	6.83	0.905	3.51	0.4	10.0	4	0.5	7.1	1.8	0.1	4	33	83.4	1.6
3486540	Rock Pulp	0.097	29.0	82	1.46	1009	0.491	7.47	2.117	3.30	5.0	69.8	61	3.1	21.7	17.7	1.3	3	12	32.8	0.3
3486541	Drill Core	0.013	1.8	6	4.00	265	0.486	7.62	0.791	2.49	0.3	10.5	4	0.5	7.7	1.2	0.1	3	37	52.1	0.5
3486542	Drill Core	0.117	7.3	25	2.98	1077	0.457	8.25	1.906	3.32	0.2	13.2	14	0.8	13.0	4.6	0.3	3	25	44.0	0.5
3486543	Drill Core	0.050	4.0	15	3.58	538	0.496	7.63	0.968	2.52	0.4	12.0	8	0.7	9.8	2.2	0.2	1	34	35.0	0.5
3486544	Drill Core	0.015	2.0	6	4.25	364	0.546	6.84	0.707	3.14	0.5	11.0	5	0.5	8.3	0.7	<0.1	<1	41	80.4	0.7
3486545	Drill Core	0.011	1.9	6	3.70	257	0.487	6.63	0.805	2.27	0.7	10.1	4	0.5	7.7	0.7	<0.1	<1	36	52.9	0.6
3486546	Drill Core	0.012	1.3	3	1.08	613	0.184	9.96	0.884	2.64	0.3	5.5	3	0.3	2.3	0.5	<0.1	<1	8	41.8	<0.1
3486547	Drill Core	0.014	2.1	8	4.78	166	0.619	6.10	0.449	1.54	0.2	17.1	5	0.6	10.2	0.9	<0.1	<1	47	32.1	0.8
3486548	Drill Core	0.012	2.1	8	4.44	203	0.589	7.21	0.549	1.64	0.2	16.3	5	0.6	9.0	1.1	<0.1	1	41	36.4	0.3
3486549	Drill Core	0.020	2.7	10	3.58	330	0.511	8.82	1.277	2.36	0.2	13.0	6	0.7	7.8	1.7	<0.1	3	32	49.4	0.7
3486550	Rock	0.007	1.0	1	2.80	10	0.005	0.05	0.030	0.01	0.5	1.2	<1	0.1	1.8	<0.1	<0.1	<1	<1	1.2	<0.1
3486551	Drill Core	0.018	2.5	13	3.82	271	0.574	8.05	0.780	2.59	0.3	13.5	5	0.6	8.1	1.3	<0.1	2	35	49.1	0.6
3486552	Drill Core	0.133	4.0	3	2.07	46	0.291	7.33	0.913	5.37	0.4	18.6	10	0.7	9.4	4.4	0.2	3	14	61.3	4.5
3486553	Drill Core	0.032	2.9	12	4.17	148	0.716	4.32	0.410	3.56	0.3	14.6	7	0.9	11.2	4.7	<0.1	4	45	78.8	3.9
3486554	Drill Core	0.192	8.6	294	5.25	1104	0.322	6.34	1.273	4.07	0.5	28.9	17	0.5	10.0	3.0	0.2	2	21	66.7	0.2
3486555	Core DUP	0.189	8.5	281	5.21	1092	0.315	6.21	1.247	4.62	0.5	28.9	16	0.5	9.6	2.9	0.2	2	20	67.1	0.2
3486556	Drill Core	0.184	7.5	383	6.52	769	0.307	5.69	0.809	3.90	0.8	23.1	14	0.4	9.3	2.2	0.1	1	24	80.0	0.1
3486557	Drill Core	0.117	5.4	225	5.21	444	0.412	5.37	1.395	3.70	0.5	19.9	11	0.5	9.2	1.6	0.1	2	31	65.0	0.7
3486558	Drill Core	0.168	8.8	3	1.61	1084	0.353	8.49	2.924	4.65	0.3	25.7	20	0.6	10.9	7.4	0.4	2	8	58.8	0.4
3486559	Drill Core	0.168	10.3	4	1.50	1125	0.344	8.26	2.379	5.74	0.4	28.6	22	0.7	11.6	9.1	0.4	2	8	44.4	0.5
3486560	Rock Pulp	0.098	32.8	83	1.49	1019	0.488	7.50	2.084	3.33	4.3	71.4	67	3.0	22.5	17.5	1.3	3	12	32.0	0.3
3486561	Drill Core	0.166	11.3	7	1.54	990	0.339	8.53	2.820	5.40	0.5	25.8	23	0.7	11.7	7.6	0.4	3	9	47.2	0.6
3486562	Drill Core	0.154	8.5	141	3.52	723	0.409	6.73	2.488	4.27	0.5	38.3	17	0.8	13.2	6.9	0.4	2	25	36.2	0.3
3486563	Drill Core	0.029	2.7	20	3.81	171	0.802	4.87	0.722	3.67	0.4	14.8	6	0.8	8.8	5.7	0.1	5	35	74.9	4.0

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486534	Drill Core	78.7	0.6	<0.05	<0.005	2	<0.5	<0.5
3486535	Drill Core	83.4	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486536	Drill Core	81.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486537	Drill Core	63.4	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486538	Drill Core	75.0	0.5	<0.05	<0.005	1	<0.5	<0.5
3486539	Drill Core	107.1	0.5	<0.05	<0.005	2	<0.5	0.6
3486540	Rock Pulp	168.2	2.3	0.07	<0.005	2	<0.5	1.0
3486541	Drill Core	72.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486542	Drill Core	77.0	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486543	Drill Core	61.7	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486544	Drill Core	105.0	0.5	0.05	<0.005	<1	<0.5	0.6
3486545	Drill Core	74.3	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486546	Drill Core	17.5	0.2	<0.05	<0.005	<1	<0.5	<0.5
3486547	Drill Core	48.0	0.8	0.06	<0.005	<1	<0.5	<0.5
3486548	Drill Core	50.4	0.7	0.05	<0.005	<1	<0.5	<0.5
3486549	Drill Core	68.8	0.6	<0.05	<0.005	1	<0.5	<0.5
3486550	Rock	0.3	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486551	Drill Core	86.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486552	Drill Core	80.9	0.6	<0.05	0.028	3	<0.5	0.6
3486553	Drill Core	128.8	0.7	0.06	0.006	3	<0.5	0.9
3486554	Drill Core	149.4	0.9	<0.05	<0.005	<1	<0.5	0.9
3486555	Core DUP	153.4	0.9	<0.05	<0.005	<1	<0.5	0.9
3486556	Drill Core	153.7	0.8	<0.05	<0.005	<1	<0.5	0.9
3486557	Drill Core	140.4	0.7	<0.05	<0.005	1	<0.5	0.7
3486558	Drill Core	86.1	0.7	<0.05	0.006	<1	<0.5	0.5
3486559	Drill Core	92.7	0.8	<0.05	0.019	<1	<0.5	<0.5
3486560	Rock Pulp	184.7	2.3	0.07	<0.005	2	<0.5	1.0
3486561	Drill Core	94.4	0.8	<0.05	0.018	<1	<0.5	<0.5
3486562	Drill Core	93.9	1.2	<0.05	<0.005	<1	<0.5	<0.5
3486563	Drill Core	139.5	0.6	0.05	<0.005	3	<0.5	0.7

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486564	Drill Core	3.24	0.006	0.5	53.7	11.6	104	0.1	40.1	52.6	1700	11.67	5	0.2	0.1	1234	0.2	1.6	<0.1	632	9.08
3486565	Drill Core	4.81	0.008	0.7	195.0	30.8	119	0.4	36.1	55.7	1757	11.55	3	0.9	0.5	338	0.6	0.6	0.4	812	9.23
3486566	Drill Core	5.57	0.009	1.0	403.0	10.6	114	0.4	28.9	60.5	1920	12.17	3	0.5	0.3	339	0.3	0.5	0.1	743	8.78
3486567	Drill Core	3.75	0.007	1.2	106.9	13.0	91	0.2	5.8	24.2	1192	5.90	13	1.4	1.9	782	0.1	0.7	<0.1	229	4.26
3486568	Drill Core	4.90	0.027	2.8	146.8	18.9	92	0.4	8.9	29.7	1541	6.42	26	1.2	1.2	592	0.2	0.8	0.1	330	5.52
3486569	Drill Core	4.56	0.016	0.6	349.4	14.3	95	0.6	19.0	40.3	1895	7.98	9	1.2	0.8	603	0.2	0.6	0.1	485	6.92
3486570	Rock	1.31	<0.005	<0.1	1.6	0.6	3	<0.1	<0.1	0.8	167	0.13	2	0.3	0.1	74	<0.1	<0.1	<0.1	2	32.37
3486571	Drill Core	4.73	0.019	0.8	100.9	34.2	83	0.2	25.4	21.0	1143	4.69	3	1.6	2.1	868	0.8	0.4	0.2	237	4.30
3486572	Drill Core	3.04	0.020	0.4	110.4	13.0	103	0.2	16.6	44.5	1773	8.83	18	1.0	0.4	376	0.2	1.2	0.1	567	7.65
3486573	Drill Core	5.24	0.005	0.7	57.1	6.8	87	<0.1	19.5	47.4	1457	10.10	4	0.1	0.2	1107	0.1	2.1	<0.1	552	8.27
3486574	Drill Core	3.05	0.009	0.8	39.1	12.3	93	<0.1	18.3	42.1	1671	8.67	6	0.4	0.1	336	0.1	0.6	<0.1	470	8.00
3486575	Drill Core	4.17	0.009	0.7	69.7	12.9	79	0.1	17.8	55.2	1128	7.95	4	0.4	0.4	522	<0.1	0.5	0.1	405	6.79
3486576	Drill Core	5.13	0.006	0.5	96.5	8.5	78	<0.1	21.6	44.6	1460	9.32	4	0.1	0.2	1077	0.6	1.0	<0.1	474	10.24
3486577	Drill Core	5.19	<0.005	0.5	15.8	7.8	78	<0.1	23.6	43.2	1332	9.27	5	0.1	0.1	978	<0.1	1.3	<0.1	480	8.87
3486578	Drill Core	5.43	0.018	2.1	161.1	73.0	99	0.3	32.9	43.9	1409	8.23	8	0.5	0.3	474	0.4	0.8	<0.1	407	7.56
3486579	Drill Core	5.34	<0.005	0.5	11.3	9.7	59	<0.1	24.3	41.0	1136	8.62	4	0.1	0.2	1242	0.1	1.3	<0.1	445	9.79
3486580	Rock Pulp	0.13	0.671	341.1	5184.2	19.6	70	1.3	32.3	16.6	538	4.76	62	4.4	15.5	330	<0.1	3.2	1.4	119	2.56
3486581	Drill Core	5.42	0.005	0.6	27.3	13.1	69	<0.1	28.0	47.0	1144	8.88	5	0.2	0.3	1000	0.2	0.9	<0.1	435	9.41
3486582	Drill Core	5.40	<0.005	0.7	26.5	9.5	66	<0.1	26.3	41.4	1111	8.68	4	0.2	0.2	897	0.1	0.7	<0.1	455	8.72
3486583	Drill Core	5.03	0.006	0.8	90.0	7.8	90	<0.1	28.6	44.0	1263	9.11	4	0.4	0.4	698	0.2	0.7	<0.1	449	8.27
3486584	Drill Core	4.10	<0.005	0.6	41.7	9.6	73	<0.1	29.7	41.3	1211	8.59	4	0.2	0.3	971	<0.1	0.6	<0.1	404	8.92
3486585	Drill Core	3.84	0.005	2.9	110.1	5.8	68	0.1	4.5	18.2	1099	4.68	4	0.7	1.4	766	0.1	0.5	<0.1	187	4.67
3486586	Drill Core	4.65	0.006	1.1	44.7	10.0	83	<0.1	25.7	37.6	1267	7.73	3	0.4	0.3	778	0.1	0.4	<0.1	365	7.85
3486587	Drill Core	5.27	<0.005	0.5	61.6	39.9	75	0.2	25.9	36.1	1044	7.55	3	0.2	0.4	817	0.4	0.8	0.3	375	7.86
3486588	Drill Core	5.91	0.006	0.9	50.3	14.5	83	<0.1	26.9	39.5	1297	9.08	2	0.6	1.4	490	0.1	0.5	<0.1	410	7.20
3486589	Drill Core	5.24	<0.005	0.9	16.4	6.5	71	<0.1	31.3	45.6	1210	9.34	4	0.2	0.5	1186	<0.1	0.9	<0.1	456	9.34
3486590	Rock	1.37	<0.005	<0.1	0.6	0.3	2	<0.1	<0.1	0.6	129	0.09	1	<0.1	<0.1	74	<0.1	<0.1	<0.1	2	33.28
3486591	Drill Core	2.89	<0.005	0.6	19.1	8.0	58	<0.1	29.2	39.8	1065	8.03	5	0.1	0.2	1592	0.1	0.9	<0.1	383	10.13
3486592	Drill Core	2.57	0.008	0.4	40.1	17.9	78	0.1	26.0	36.4	1301	7.11	3	0.8	0.7	335	0.1	0.4	0.1	360	7.34
3486593	Drill Core	2.40	<0.005	0.4	46.1	8.9	73	<0.1	33.5	44.5	1127	8.67	3	0.5	0.3	608	0.1	0.7	<0.1	413	7.85

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BUREAU VERITAS MINERAL LABORATORIES Canada

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486564	Drill Core	0.009	1.9	12	4.62	179	0.665	6.44	0.609	1.91	0.3	14.5	5	0.6	9.7	1.0	<0.1	1	48	39.5	0.4
3486565	Drill Core	0.014	2.4	12	4.76	278	0.671	4.22	0.909	1.91	0.2	23.1	6	1.0	11.7	5.3	<0.1	7	50	39.2	1.2
3486566	Drill Core	0.017	2.4	20	4.57	263	0.681	5.00	0.828	3.03	0.3	16.0	6	0.6	11.7	2.2	<0.1	3	46	60.6	1.0
3486567	Drill Core	0.232	9.9	6	1.88	248	0.374	7.78	0.545	7.62	0.2	38.0	20	0.8	13.5	6.0	0.3	3	12	70.4	2.6
3486568	Drill Core	0.140	7.3	6	2.55	247	0.415	7.18	0.757	5.80	0.2	22.2	14	0.6	10.8	4.0	0.2	2	18	64.3	2.3
3486569	Drill Core	0.067	4.1	22	3.03	235	0.483	7.18	0.478	5.62	0.2	14.6	8	0.6	8.7	3.0	0.1	4	26	95.0	2.1
3486570	Rock	0.008	1.0	4	2.82	48	0.006	0.16	0.048	0.13	<0.1	2.0	<1	0.1	2.0	0.1	<0.1	<1	<1	1.7	<0.1
3486571	Drill Core	0.178	9.0	53	2.14	434	0.320	7.91	0.322	7.65	0.2	32.6	17	0.6	10.4	4.5	0.2	3	10	71.7	1.3
3486572	Drill Core	0.036	3.3	10	3.37	314	0.487	6.76	0.533	4.14	5.5	10.6	7	0.6	8.5	3.1	<0.1	5	32	100.1	3.0
3486573	Drill Core	0.016	1.9	5	3.80	219	0.525	7.80	0.727	2.37	0.9	9.5	4	0.4	7.9	0.8	<0.1	<1	34	44.2	<0.1
3486574	Drill Core	0.014	1.7	5	3.53	426	0.460	7.02	0.861	3.47	0.3	7.3	4	0.5	7.1	1.1	<0.1	1	32	73.0	1.0
3486575	Drill Core	0.026	2.3	5	3.38	627	0.410	8.06	1.620	3.48	0.4	7.9	5	0.6	6.8	2.2	<0.1	1	27	56.9	1.3
3486576	Drill Core	0.016	1.8	7	4.11	250	0.488	7.84	0.693	1.32	0.4	10.0	4	0.4	7.3	0.6	<0.1	<1	34	35.9	0.1
3486577	Drill Core	0.016	1.6	7	3.89	197	0.469	8.21	0.630	1.77	0.4	8.1	4	0.4	6.6	0.7	<0.1	<1	31	43.9	0.1
3486578	Drill Core	0.034	2.2	81	4.05	441	0.406	7.89	1.194	3.00	0.5	10.4	5	0.5	7.1	1.5	<0.1	1	32	67.6	1.9
3486579	Drill Core	0.022	1.9	7	3.49	282	0.427	8.84	0.626	1.14	0.3	12.5	4	0.4	6.4	0.8	<0.1	<1	31	31.1	0.2
3486580	Rock Pulp	0.103	28.3	64	1.39	278	0.494	7.36	2.057	3.31	3.3	83.6	59	3.1	21.3	19.2	1.3	3	12	29.3	0.8
3486581	Drill Core	0.017	1.9	7	3.58	346	0.445	8.94	0.710	1.62	0.3	11.2	4	0.5	5.9	1.0	<0.1	<1	28	39.4	0.6
3486582	Drill Core	0.012	1.9	10	3.43	409	0.451	8.11	1.179	1.87	0.3	11.9	4	0.5	6.5	1.1	<0.1	1	33	36.3	0.6
3486583	Drill Core	0.026	2.6	9	3.69	421	0.458	8.23	1.174	2.43	0.3	13.0	6	0.5	7.3	1.9	<0.1	1	32	51.9	0.7
3486584	Drill Core	0.021	2.2	16	3.54	407	0.425	9.04	0.946	2.43	0.3	13.0	5	0.5	6.8	1.2	<0.1	1	31	44.9	0.2
3486585	Drill Core	0.160	9.4	3	1.58	936	0.377	8.47	3.777	3.20	0.5	22.1	21	0.6	12.5	7.1	0.4	1	9	42.1	0.4
3486586	Drill Core	0.022	2.4	11	3.48	481	0.378	9.11	1.152	3.22	0.3	8.9	5	0.5	6.4	1.6	<0.1	1	28	67.2	0.6
3486587	Drill Core	0.014	2.2	10	3.36	343	0.369	8.08	0.986	2.23	0.2	10.3	5	0.5	6.6	1.2	<0.1	1	29	39.9	0.7
3486588	Drill Core	0.031	5.3	14	3.53	451	0.469	7.32	1.522	2.86	0.3	21.9	11	0.8	10.8	3.4	0.2	1	35	34.5	0.8
3486589	Drill Core	0.023	2.7	11	3.75	225	0.483	7.85	0.946	1.29	0.3	25.5	6	0.6	8.2	1.6	0.1	<1	37	31.8	0.4
3486590	Rock	0.005	0.9	<1	2.70	9	0.005	0.05	0.029	0.01	<0.1	1.3	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.2	<0.1
3486591	Drill Core	0.018	2.0	12	3.49	238	0.383	9.42	0.642	1.50	0.2	13.5	4	0.4	5.7	1.0	<0.1	<1	28	35.4	0.2
3486592	Drill Core	0.024	3.1	11	3.18	533	0.368	8.41	1.407	4.38	0.3	10.9	7	0.6	6.9	2.6	0.1	2	27	84.9	1.7
3486593	Drill Core	0.024	2.3	28	3.38	496	0.415	8.39	0.783	3.82	0.2	11.0	5	0.5	5.5	2.2	<0.1	2	25	69.7	0.4

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486564	Drill Core	67.1	0.8	0.06	<0.005	<1	<0.5	<0.5
3486565	Drill Core	54.3	1.0	0.06	<0.005	2	<0.5	<0.5
3486566	Drill Core	117.3	0.8	0.06	<0.005	1	<0.5	0.6
3486567	Drill Core	164.7	1.0	<0.05	<0.005	1	<0.5	0.8
3486568	Drill Core	155.6	0.7	<0.05	0.007	1	<0.5	0.8
3486569	Drill Core	189.2	0.6	<0.05	<0.005	2	<0.5	1.1
3486570	Rock	2.0	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486571	Drill Core	161.4	0.9	<0.05	<0.005	1	<0.5	0.9
3486572	Drill Core	135.0	0.5	<0.05	0.005	3	<0.5	0.8
3486573	Drill Core	74.7	0.5	0.05	<0.005	<1	<0.5	<0.5
3486574	Drill Core	113.3	0.3	<0.05	<0.005	<1	<0.5	0.5
3486575	Drill Core	82.1	0.4	<0.05	<0.005	2	<0.5	<0.5
3486576	Drill Core	39.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486577	Drill Core	39.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486578	Drill Core	88.0	0.4	<0.05	<0.005	3	<0.5	<0.5
3486579	Drill Core	23.4	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486580	Rock Pulp	161.9	2.4	0.09	0.219	3	<0.5	0.8
3486581	Drill Core	29.6	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486582	Drill Core	49.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486583	Drill Core	66.2	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486584	Drill Core	51.9	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486585	Drill Core	53.8	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486586	Drill Core	96.6	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486587	Drill Core	60.4	0.4	<0.05	<0.005	1	<0.5	<0.5
3486588	Drill Core	63.4	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486589	Drill Core	42.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486590	Rock	0.3	<0.1	<0.05	<0.005	<1	<0.5	<0.5
3486591	Drill Core	32.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486592	Drill Core	135.7	0.5	<0.05	<0.005	2	<0.5	0.6
3486593	Drill Core	115.3	0.4	<0.05	<0.005	<1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486594	Drill Core	5.18	0.005	0.6	101.3	13.1	83	0.1	29.1	38.8	1243	7.96	5	0.5	0.5	1038	0.2	1.6	<0.1	414	8.02
3486595	Core DUP		<0.005	0.6	99.2	12.7	83	0.1	28.4	37.7	1225	7.73	4	0.4	0.3	1029	0.2	1.6	<0.1	404	7.92
3486596	Drill Core	4.64	0.008	2.4	180.6	11.6	122	0.3	13.7	28.0	1643	7.95	8	0.9	1.3	643	0.3	0.7	0.1	334	5.00
3486597	Drill Core	4.05	0.008	3.8	39.8	9.7	33	0.1	1.2	12.6	651	3.29	6	1.0	2.1	473	0.2	0.5	<0.1	83	2.98
3486598	Drill Core	3.05	0.009	3.0	147.2	9.9	97	0.2	3.5	20.6	1317	5.90	6	0.8	1.4	817	0.6	0.8	<0.1	211	3.70
3486599	Drill Core	2.94	0.006	1.5	151.4	14.1	96	0.2	3.8	21.3	1153	5.50	7	0.8	1.6	674	0.2	0.6	<0.1	228	2.83
3486600	Rock Pulp	0.11	0.407	9.9	2237.7	6.1	50	0.6	10.9	14.4	652	5.69	14	1.0	1.5	498	0.2	0.7	0.1	232	2.75
3486601	Drill Core	4.75	<0.005	0.8	155.9	11.6	80	0.1	135.8	43.0	1349	6.80	2	1.5	1.6	469	0.1	0.4	<0.1	278	6.04
3486602	Drill Core	5.10	0.005	1.6	125.3	11.1	85	0.1	150.4	42.4	1329	6.50	3	1.4	1.9	525	<0.1	0.5	<0.1	242	5.65
3486603	Drill Core	5.07	0.005	1.5	118.8	4.1	65	<0.1	153.6	42.1	1242	6.43	3	1.1	2.0	641	<0.1	0.7	<0.1	225	4.85
3486604	Drill Core	2.47	<0.005	1.1	123.6	5.2	72	<0.1	60.3	26.0	1247	5.19	3	1.1	2.0	790	<0.1	0.5	<0.1	195	3.97
3486605	Drill Core	5.24	<0.005	0.9	134.7	14.5	71	0.1	149.6	39.9	1273	6.16	1	1.6	1.9	651	0.1	0.5	<0.1	241	5.60
3486606	Drill Core	4.96	0.005	1.5	115.8	7.9	70	<0.1	144.6	39.3	1240	5.98	<1	1.4	1.7	555	0.1	0.5	<0.1	254	5.38
3486607	Drill Core	5.18	<0.005	0.4	116.3	24.5	100	0.1	132.1	36.0	1596	6.05	1	2.0	1.7	604	0.2	0.4	0.1	291	6.75
3486608	Drill Core	5.35	0.008	1.2	157.5	7.5	110	0.2	24.8	29.1	1522	6.48	3	1.1	2.0	609	0.2	0.7	<0.1	264	6.03
3486609	Drill Core	2.64	0.010	16.4	207.0	149.8	308	0.6	21.0	28.4	1372	5.99	2	1.4	1.6	618	6.6	0.7	1.0	255	5.46
3486610	Rock	1.28	<0.005	0.1	0.8	0.8	3	<0.1	0.2	<0.2	137	0.13	<1	0.2	<0.1	78	<0.1	<0.1	<0.1	2	32.96
3486611	Drill Core	3.30	0.010	17.2	191.8	50.5	116	0.3	16.3	24.3	1302	6.12	3	1.6	1.6	670	0.5	1.1	0.3	252	5.92
3486612	Drill Core	4.51	0.009	4.1	166.6	22.3	69	0.2	2.9	17.9	885	4.50	2	0.8	1.5	558	0.2	1.0	<0.1	182	4.54
3486613	Drill Core	4.86	0.008	24.9	202.5	22.2	62	0.3	3.2	19.1	918	4.47	3	0.8	1.6	585	0.3	0.9	<0.1	204	4.41
3486614	Drill Core	4.42	0.012	3.4	219.1	8.5	66	0.3	3.1	20.3	1066	4.70	7	0.7	1.4	924	0.1	1.2	<0.1	193	4.44
3486615	Drill Core	2.06	0.013	7.6	134.9	7.5	54	0.2	2.2	16.8	852	4.16	6	0.6	1.3	991	<0.1	1.4	<0.1	177	4.33
3486616	Drill Core	3.53	0.035	3.8	156.8	18.5	91	0.3	2.6	16.6	1105	4.55	29	0.5	1.0	470	0.5	1.1	<0.1	162	4.11
3486617	Drill Core	3.80	0.009	1.9	291.3	23.4	86	0.4	2.6	18.9	1176	5.00	6	0.6	1.1	956	0.3	1.0	0.1	231	4.41
3486618	Drill Core	5.30	0.056	6.2	332.3	8.8	91	0.5	3.0	21.9	1355	5.80	6	0.7	1.3	829	0.2	0.7	<0.1	281	5.01
3486619	Drill Core	5.21	0.734	1.0	241.6	11.0	79	0.7	2.6	20.9	1320	5.31	6	0.7	1.3	914	0.3	0.7	<0.1	228	5.08
3486620	Rock Pulp	0.13	0.230	94.6	2725.9	20.9	79	0.4	59.2	15.5	555	4.40	18	4.7	18.7	311	0.2	2.2	0.6	125	2.63
3486621	Drill Core	4.56	0.070	1.8	190.9	13.6	92	0.3	5.8	18.0	1182	4.89	5	0.8	1.2	1117	0.2	0.7	<0.1	222	4.46
3486622	Drill Core	4.66	0.008	1.5	203.4	117.6	176	0.4	2.7	19.0	1305	5.04	5	1.1	1.2	1124	2.9	0.8	0.6	276	4.09
3486623	Drill Core	4.98	0.009	0.9	242.2	107.3	132	0.4	2.8	20.0	1255	5.02	6	1.1	1.2	1143	1.8	1.0	0.5	311	4.17

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486594	Drill Core	0.027	2.7	19	3.47	397	0.402	8.88	1.230	2.63	0.3	13.2	6	0.6	6.9	2.2	<0.1	2	29	57.5	0.6
3486595	Core DUP	0.027	2.7	18	3.43	392	0.389	8.84	1.218	2.79	0.3	12.5	6	0.6	6.8	2.1	<0.1	2	29	56.5	0.6
3486596	Drill Core	0.116	9.0	11	2.61	698	0.537	8.08	1.648	4.67	0.4	26.5	18	1.1	16.6	8.4	0.4	3	22	64.2	1.2
3486597	Drill Core	0.102	5.5	2	0.58	156	0.211	8.07	2.472	6.18	0.6	21.9	13	0.8	9.6	8.3	0.4	1	3	16.2	2.1
3486598	Drill Core	0.174	8.2	3	1.63	828	0.426	8.25	2.308	5.37	0.4	32.0	18	0.8	14.9	9.9	0.4	2	11	57.6	1.1
3486599	Drill Core	0.178	9.2	2	1.66	382	0.428	8.60	2.643	5.57	0.4	26.2	19	0.8	14.4	9.4	0.4	2	11	67.3	1.4
3486600	Rock Pulp	0.112	9.0	23	1.21	1352	0.327	8.33	3.224	4.53	1.3	40.9	19	2.0	17.2	2.6	0.2	1	10	12.8	0.3
3486601	Drill Core	0.172	7.2	305	5.37	848	0.316	5.99	0.776	4.71	0.2	30.0	14	0.5	10.2	4.2	0.1	3	25	63.6	0.4
3486602	Drill Core	0.194	8.3	335	5.58	1154	0.297	6.10	0.781	4.34	0.4	27.5	16	0.5	9.5	3.5	0.2	2	21	70.2	<0.1
3486603	Drill Core	0.202	8.8	348	5.60	1054	0.302	6.23	0.920	4.30	0.7	24.5	17	0.5	10.0	2.9	0.2	1	20	72.3	<0.1
3486604	Drill Core	0.199	12.1	122	3.15	851	0.322	7.98	2.693	4.37	0.3	33.7	24	0.5	12.3	5.2	0.3	2	12	77.1	0.4
3486605	Drill Core	0.193	8.4	331	5.36	1086	0.291	5.89	0.590	3.93	0.2	36.1	16	0.5	9.9	3.3	0.2	3	20	71.7	0.2
3486606	Drill Core	0.185	7.7	319	5.27	752	0.284	5.66	0.623	4.01	0.2	27.8	15	0.5	9.4	3.3	0.1	4	21	81.4	0.2
3486607	Drill Core	0.173	7.9	268	4.30	731	0.293	5.71	0.529	4.11	0.2	36.4	15	0.6	10.0	4.5	0.2	5	20	70.9	0.7
3486608	Drill Core	0.123	9.6	81	3.11	1344	0.458	7.86	1.228	5.75	0.3	39.0	19	1.1	16.0	8.1	0.4	2	27	70.4	0.7
3486609	Drill Core	0.128	8.6	68	2.60	111	0.401	6.59	0.776	5.28	0.4	30.3	17	1.2	14.5	8.6	0.3	4	20	57.9	2.0
3486610	Rock	0.007	1.3	1	2.59	17	0.007	0.08	0.030	0.04	<0.1	1.8	1	<0.1	2.0	0.2	<0.1	<1	<1	1.3	<0.1
3486611	Drill Core	0.141	8.2	37	2.62	279	0.387	7.32	0.929	5.83	1.9	26.5	16	0.7	13.2	6.6	0.3	3	19	51.9	1.9
3486612	Drill Core	0.206	7.2	1	1.44	285	0.289	9.08	2.533	5.38	1.1	27.6	17	0.9	11.9	7.0	0.3	3	8	58.9	1.9
3486613	Drill Core	0.222	8.6	1	1.52	283	0.369	9.73	2.765	6.09	1.4	22.4	19	0.8	12.9	6.8	0.3	2	8	69.5	1.3
3486614	Drill Core	0.214	8.5	1	1.48	402	0.384	10.09	2.819	4.96	0.9	20.6	19	0.7	12.9	6.8	0.3	2	8	61.3	1.3
3486615	Drill Core	0.189	7.3	1	1.16	561	0.316	10.09	3.085	4.47	0.9	20.6	16	0.5	11.1	6.1	0.3	2	6	60.8	1.4
3486616	Drill Core	0.175	6.3	2	1.36	157	0.278	9.02	1.656	6.22	0.7	16.0	15	0.5	10.4	4.9	0.3	1	5	82.0	2.0
3486617	Drill Core	0.161	7.0	2	1.21	593	0.361	9.82	2.657	5.89	0.5	19.2	15	0.7	11.5	7.3	0.3	2	7	58.0	1.3
3486618	Drill Core	0.213	8.6	2	1.50	625	0.400	9.04	2.412	5.26	0.4	24.5	19	0.7	15.0	7.8	0.4	2	10	53.1	1.2
3486619	Drill Core	0.220	8.9	2	1.43	709	0.381	9.06	2.264	6.27	0.3	23.5	20	0.8	14.5	6.4	0.4	2	8	55.0	1.2
3486620	Rock Pulp	0.097	31.8	78	1.50	1015	0.487	7.87	2.200	3.54	3.9	71.5	63	3.3	22.8	17.2	1.3	4	12	34.5	0.3
3486621	Drill Core	0.120	6.9	7	1.42	752	0.395	9.41	1.978	6.99	0.4	20.3	14	0.5	10.8	6.4	0.3	2	10	61.0	0.9
3486622	Drill Core	0.176	7.8	2	1.41	466	0.436	8.98	2.036	6.79	0.4	24.0	16	0.7	12.5	9.1	0.3	3	9	39.9	1.0
3486623	Drill Core	0.210	8.8	2	1.44	425	0.421	8.88	2.179	6.34	0.5	22.8	19	0.7	13.6	8.3	0.3	5	9	48.9	1.0

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486594	Drill Core	83.6	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486595	Core DUP	85.4	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486596	Drill Core	129.2	0.9	0.05	<0.005	1	<0.5	0.5
3486597	Drill Core	60.4	0.5	<0.05	<0.005	2	<0.5	<0.5
3486598	Drill Core	87.1	0.9	<0.05	<0.005	2	<0.5	<0.5
3486599	Drill Core	117.4	0.7	<0.05	<0.005	2	<0.5	<0.5
3486600	Rock Pulp	89.3	1.2	0.09	0.036	3	<0.5	<0.5
3486601	Drill Core	160.0	0.8	<0.05	<0.005	<1	<0.5	0.7
3486602	Drill Core	158.5	0.8	<0.05	<0.005	<1	<0.5	0.7
3486603	Drill Core	158.5	0.7	<0.05	<0.005	<1	<0.5	0.7
3486604	Drill Core	137.8	1.1	<0.05	<0.005	<1	<0.5	0.6
3486605	Drill Core	146.8	0.8	<0.05	<0.005	<1	<0.5	0.7
3486606	Drill Core	154.7	0.8	<0.05	<0.005	<1	<0.5	0.7
3486607	Drill Core	157.3	0.8	<0.05	<0.005	1	<0.5	0.8
3486608	Drill Core	144.1	1.4	0.08	<0.005	1	0.7	0.9
3486609	Drill Core	137.1	1.1	<0.05	0.051	4	<0.5	0.7
3486610	Rock	0.6	<0.1	<0.05	<0.005	<1	4.3	<0.5
3486611	Drill Core	129.7	0.9	0.05	0.079	1	<0.5	0.7
3486612	Drill Core	78.3	0.7	<0.05	0.007	2	<0.5	<0.5
3486613	Drill Core	98.3	0.6	<0.05	0.054	2	<0.5	<0.5
3486614	Drill Core	92.0	0.6	<0.05	0.007	2	<0.5	<0.5
3486615	Drill Core	74.2	0.6	<0.05	0.011	2	<0.5	<0.5
3486616	Drill Core	105.3	0.4	<0.05	<0.005	2	<0.5	0.6
3486617	Drill Core	94.4	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486618	Drill Core	90.0	0.9	<0.05	0.005	<1	<0.5	0.5
3486619	Drill Core	100.2	0.7	<0.05	<0.005	<1	<0.5	0.6
3486620	Rock Pulp	186.0	2.3	<0.05	<0.005	1	<0.5	1.0
3486621	Drill Core	125.6	0.6	<0.05	0.008	1	<0.5	0.6
3486622	Drill Core	99.2	0.8	<0.05	<0.005	2	<0.5	<0.5
3486623	Drill Core	104.9	0.7	<0.05	<0.005	1	<0.5	<0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486624	Drill Core	4.87	0.012	1.2	200.3	27.9	105	0.2	4.3	20.3	1386	5.46	6	0.7	1.0	1285	0.3	1.8	<0.1	205	4.99
3486625	Drill Core	5.20	0.007	1.0	132.7	9.3	88	0.1	2.9	20.0	1246	4.90	6	0.5	1.1	1105	0.2	1.7	<0.1	176	5.18
3486626	Drill Core	4.79	0.008	3.7	207.2	9.4	97	0.2	8.3	23.3	1430	5.68	6	0.6	1.3	875	0.2	1.3	<0.1	211	4.88
3486627	Drill Core	4.98	0.006	1.4	108.1	20.6	90	<0.1	2.8	20.2	1265	5.08	6	0.5	1.1	948	0.4	1.2	<0.1	195	4.15
3486628	Drill Core	5.03	0.006	1.1	135.6	9.7	87	0.1	2.9	20.0	1290	5.22	6	0.6	1.3	952	0.1	1.6	<0.1	199	4.72
3486629	Drill Core	4.87	<0.005	2.1	150.3	12.9	84	0.1	2.8	19.7	1282	5.04	5	0.6	1.2	929	0.3	1.6	<0.1	167	4.77
3486630	Rock	1.79	<0.005	<0.1	0.8	0.4	3	<0.1	<0.1	<0.2	140	0.12	3	0.1	<0.1	74	<0.1	<0.1	<0.1	1	32.33
3486631	Drill Core	5.16	0.006	0.8	114.8	10.6	76	<0.1	2.8	19.0	1141	5.01	7	0.6	1.1	1032	0.2	2.2	<0.1	228	4.73
3486632	Drill Core	4.59	0.009	1.4	166.0	17.1	68	0.2	3.2	18.9	1145	5.02	7	0.7	1.3	953	0.2	1.3	<0.1	211	5.00
3486633	Drill Core	4.49	0.010	1.1	86.3	7.8	54	<0.1	2.5	17.3	940	4.78	6	0.4	0.8	894	<0.1	1.3	<0.1	156	4.22
3486634	Drill Core	4.38	0.007	0.7	116.6	9.5	69	0.1	17.8	18.7	1103	4.78	6	0.6	1.0	943	0.1	0.8	<0.1	178	4.29
3486635	Core DUP		0.007	0.9	119.9	9.8	70	0.1	17.9	19.7	1085	4.74	6	0.6	1.0	974	0.2	0.8	<0.1	173	4.25
3486636	Drill Core	4.42	0.006	0.9	124.2	62.1	86	0.2	3.3	17.7	1164	4.91	5	0.6	1.2	823	0.6	1.2	0.2	178	4.06
3486637	Drill Core	4.68	0.008	6.7	95.5	73.7	88	0.3	2.6	16.3	982	4.33	7	1.2	0.8	628	1.0	0.7	0.4	174	3.52
3486638	Drill Core	4.41	0.012	2.6	144.6	11.4	76	0.1	2.4	18.1	1054	4.72	16	0.5	0.9	615	0.2	1.0	<0.1	151	4.40
3486639	Drill Core	4.51	0.006	1.8	152.4	16.9	85	0.2	2.6	17.1	1107	4.86	8	0.6	0.9	819	0.2	1.0	<0.1	160	3.98
3486640	Rock Pulp	0.13	0.225	97.3	2683.0	19.9	82	0.4	58.9	15.0	546	4.33	19	4.2	16.3	310	0.2	2.1	0.6	123	2.56
3486641	Drill Core	4.38	0.005	1.1	108.8	11.5	78	0.1	2.3	16.6	1071	4.61	6	0.5	0.9	857	0.2	1.1	<0.1	166	3.93
3486642	Drill Core	4.29	0.007	2.2	99.0	10.7	89	0.1	2.2	16.1	1076	4.38	6	0.5	0.7	802	0.2	0.9	<0.1	160	3.67
3486643	Drill Core	4.68	0.007	1.0	126.1	10.6	77	0.1	2.3	16.6	1078	4.39	6	0.6	0.8	862	0.1	0.9	<0.1	167	3.84
3486644	Drill Core	4.10	0.006	0.8	107.6	11.9	81	0.1	2.1	17.2	1121	4.55	6	0.5	0.9	761	0.2	0.9	<0.1	163	4.09
3486645	Drill Core	3.89	0.006	2.0	109.3	14.3	71	0.1	2.3	14.7	1103	4.39	5	0.5	0.9	717	0.3	0.9	<0.1	158	3.88
3486646	Drill Core	3.32	0.007	0.9	130.4	9.6	80	0.1	2.0	14.9	1038	4.40	4	0.6	0.7	719	0.2	0.9	<0.1	159	3.51
3486647	Drill Core	2.77	0.119	2.0	160.7	34.3	118	0.2	11.4	24.3	1383	5.35	8	1.0	1.1	579	0.4	0.9	0.2	210	5.56
3486648	Drill Core	4.66	0.016	1.3	253.1	226.9	110	0.9	3.9	18.8	1517	5.19	12	1.3	0.9	605	0.8	0.7	1.4	272	5.66
3486649	Drill Core	5.02	0.020	0.7	241.6	24.8	104	0.3	3.2	18.3	1273	5.18	9	0.9	0.7	753	0.4	0.5	0.2	240	4.20
3486650	Rock	1.34	<0.005	<0.1	4.0	0.8	4	<0.1	0.5	0.3	143	0.13	2	0.1	<0.1	79	<0.1	<0.1	<0.1	<1	31.99
3486651	Drill Core	5.16	0.008	1.1	264.1	13.9	115	0.3	4.1	24.3	1621	6.35	5	0.3	0.7	966	0.3	1.0	<0.1	244	5.43
3486652	Drill Core	4.95	0.010	1.0	367.7	9.0	105	0.4	3.0	21.8	1433	5.56	5	0.5	0.8	938	0.3	0.8	<0.1	221	5.39
3486653	Drill Core	5.01	0.011	2.1	268.1	23.5	99	0.3	2.9	20.6	1497	5.79	6	0.6	0.8	869	0.2	0.9	0.1	195	4.99

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CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486624	Drill Core	0.251	8.5	1	1.54	1911	0.486	9.41	2.956	4.22	0.5	20.7	18	0.6	14.1	5.7	0.3	1	9	34.9	0.7
3486625	Drill Core	0.215	7.4	2	1.38	2446	0.436	9.49	3.021	4.32	0.5	21.8	17	0.4	12.2	5.4	0.3	1	8	33.2	0.4
3486626	Drill Core	0.225	8.9	16	1.83	2028	0.482	9.33	3.193	4.48	0.9	23.0	19	0.5	13.3	5.7	0.3	2	12	35.6	0.6
3486627	Drill Core	0.211	9.2	2	1.38	704	0.450	9.51	3.158	4.36	0.4	23.0	19	0.5	13.9	6.1	0.3	<1	9	32.2	0.6
3486628	Drill Core	0.231	9.2	2	1.44	1223	0.422	9.52	2.785	5.15	0.4	22.6	20	0.5	14.0	5.6	0.3	1	8	40.9	0.7
3486629	Drill Core	0.209	8.3	2	1.37	1766	0.398	9.60	2.914	4.24	0.4	24.1	17	0.5	13.2	5.5	0.3	2	7	29.2	0.5
3486630	Rock	0.009	1.1	1	3.03	14	0.006	0.07	0.036	0.02	<0.1	1.6	1	<0.1	1.9	0.2	<0.1	<1	<1	1.5	<0.1
3486631	Drill Core	0.240	7.7	1	1.30	570	0.408	8.95	3.001	3.73	0.4	19.8	17	0.6	12.7	6.3	0.3	2	8	31.2	0.9
3486632	Drill Core	0.204	8.6	2	1.42	430	0.430	9.49	2.552	4.95	0.4	19.4	18	0.7	12.7	6.0	0.3	1	9	45.6	1.2
3486633	Drill Core	0.202	7.1	2	1.23	223	0.388	9.45	2.848	5.38	0.4	15.2	16	0.5	11.3	4.2	0.2	1	7	37.6	1.7
3486634	Drill Core	0.193	7.2	31	1.61	397	0.328	8.94	2.254	6.13	0.3	17.9	16	0.4	11.4	4.2	0.2	2	8	39.1	0.9
3486635	Core DUP	0.205	7.6	34	1.59	441	0.343	8.81	2.274	5.79	0.3	18.2	16	0.4	11.5	4.2	0.2	2	8	39.6	0.9
3486636	Drill Core	0.197	9.0	4	1.32	939	0.386	9.38	2.788	5.56	0.4	19.4	19	0.4	12.5	4.4	0.2	2	9	33.1	0.6
3486637	Drill Core	0.175	6.6	2	1.15	193	0.337	9.14	2.546	6.76	0.7	15.9	14	0.5	10.4	5.1	0.2	2	6	36.2	1.3
3486638	Drill Core	0.189	6.8	2	1.24	171	0.351	8.99	2.566	5.79	1.1	15.1	16	0.4	11.6	4.3	0.2	2	7	43.5	1.7
3486639	Drill Core	0.202	8.5	2	1.15	213	0.354	9.22	3.163	5.14	0.6	14.7	19	0.5	12.6	5.4	0.3	1	7	30.8	1.4
3486640	Rock Pulp	0.091	29.8	83	1.46	1041	0.455	7.65	2.207	3.56	4.1	68.2	64	3.3	22.0	16.7	1.2	2	11	31.7	0.3
3486641	Drill Core	0.201	8.4	1	1.14	421	0.320	9.42	3.262	5.28	0.6	13.6	18	0.5	12.5	4.5	0.2	2	7	24.3	1.0
3486642	Drill Core	0.189	7.4	2	1.10	358	0.339	8.90	2.799	5.74	0.3	13.4	17	0.4	11.4	4.2	0.2	1	6	26.9	0.8
3486643	Drill Core	0.215	7.0	2	1.11	290	0.378	9.11	2.935	5.56	0.4	14.0	16	0.6	11.5	4.9	0.2	1	6	36.6	1.1
3486644	Drill Core	0.216	8.3	2	1.14	257	0.362	9.45	3.076	5.73	0.5	14.8	18	0.5	12.9	4.0	0.2	1	7	29.7	0.9
3486645	Drill Core	0.191	6.9	1	1.07	393	0.382	8.93	3.060	5.47	0.6	14.6	16	0.5	11.3	5.0	0.2	2	6	25.6	0.7
3486646	Drill Core	0.198	7.2	2	1.05	330	0.364	8.81	2.473	6.43	0.5	12.0	16	0.4	11.1	4.5	0.2	1	6	26.4	0.7
3486647	Drill Core	0.205	10.3	42	1.90	138	0.413	8.52	2.074	6.07	0.5	13.6	21	0.5	14.2	5.3	0.2	3	13	41.2	1.9
3486648	Drill Core	0.239	11.5	1	1.46	696	0.401	8.36	2.207	6.17	0.4	16.4	23	0.7	15.8	7.1	0.2	3	9	30.6	2.0
3486649	Drill Core	0.246	8.9	2	1.25	205	0.430	8.54	1.726	6.88	0.6	12.6	20	0.6	13.3	5.6	0.2	3	8	50.1	2.2
3486650	Rock	0.007	1.1	<1	2.81	11	0.005	0.06	0.031	0.03	<0.1	1.6	<1	<0.1	1.9	0.1	<0.1	<1	<1	1.2	<0.1
3486651	Drill Core	0.267	10.2	1	1.60	933	0.527	9.03	2.861	4.18	0.6	16.1	22	0.4	16.1	4.2	0.2	1	11	35.3	0.8
3486652	Drill Core	0.277	9.8	1	1.34	1063	0.482	8.77	2.883	4.49	0.6	14.4	22	0.5	15.0	5.1	0.3	2	9	39.8	0.9
3486653	Drill Core	0.286	9.2	2	1.40	727	0.492	8.65	2.957	3.82	0.4	16.7	21	0.4	14.9	5.0	0.3	2	8	24.6	0.6

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486624	Drill Core	57.6	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486625	Drill Core	51.1	0.8	<0.05	<0.005	<1	<0.5	<0.5
3486626	Drill Core	73.5	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486627	Drill Core	69.4	0.8	<0.05	<0.005	1	<0.5	<0.5
3486628	Drill Core	75.8	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486629	Drill Core	52.9	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486630	Rock	0.5	<0.1	<0.05	<0.005	<1	2.9	<0.5
3486631	Drill Core	38.9	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486632	Drill Core	79.1	0.6	<0.05	0.017	<1	<0.5	<0.5
3486633	Drill Core	68.8	0.5	<0.05	<0.005	2	<0.5	<0.5
3486634	Drill Core	80.0	0.6	<0.05	<0.005	1	<0.5	0.5
3486635	Core DUP	82.1	0.5	<0.05	<0.005	1	<0.5	0.5
3486636	Drill Core	86.7	0.7	<0.05	<0.005	1	<0.5	<0.5
3486637	Drill Core	83.5	0.4	<0.05	0.013	2	<0.5	<0.5
3486638	Drill Core	80.1	0.5	<0.05	<0.005	1	<0.5	<0.5
3486639	Drill Core	67.1	0.5	<0.05	<0.005	2	<0.5	<0.5
3486640	Rock Pulp	169.2	2.3	0.06	<0.005	2	<0.5	1.0
3486641	Drill Core	62.1	0.4	<0.05	<0.005	2	<0.5	<0.5
3486642	Drill Core	65.5	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486643	Drill Core	69.2	0.5	<0.05	<0.005	2	<0.5	<0.5
3486644	Drill Core	72.0	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486645	Drill Core	62.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486646	Drill Core	77.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486647	Drill Core	119.8	0.5	<0.05	<0.005	2	<0.5	0.6
3486648	Drill Core	98.8	0.6	<0.05	<0.005	2	<0.5	<0.5
3486649	Drill Core	104.4	0.4	<0.05	<0.005	1	<0.5	0.6
3486650	Rock	0.4	<0.1	<0.05	<0.005	<1	2.1	<0.5
3486651	Drill Core	61.5	0.5	0.06	<0.005	<1	<0.5	<0.5
3486652	Drill Core	71.4	0.5	<0.05	<0.005	1	<0.5	<0.5
3486653	Drill Core	38.8	0.6	<0.05	<0.005	1	<0.5	<0.5

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486654	Drill Core	5.28	0.006	1.3	234.5	9.5	106	0.2	3.3	22.6	1598	5.99	5	0.3	0.9	966	0.2	0.9	<0.1	183	5.91
3486655	Drill Core	5.13	0.009	1.6	274.7	40.2	101	0.3	3.1	24.0	1552	6.04	5	0.5	0.9	850	0.4	0.8	0.1	190	5.08
3486656	Drill Core	4.88	0.008	1.4	284.7	19.3	104	0.3	2.8	21.1	1539	6.13	5	0.4	0.9	1086	0.4	1.0	<0.1	220	5.53
3486657	Drill Core	5.03	0.009	1.2	322.3	25.5	112	0.3	3.1	21.8	1639	5.99	5	0.4	0.8	847	0.4	0.7	<0.1	209	5.35
3486658	Drill Core	3.21	0.010	4.9	426.5	140.7	137	0.8	3.2	20.8	1586	6.05	4	1.9	0.8	780	2.9	0.5	1.1	240	4.85
3486659	Drill Core	1.67	0.012	5.6	444.3	20.5	133	0.4	4.1	23.0	1442	6.05	4	0.9	0.9	452	0.6	0.4	0.1	199	3.97
3486660	Rock Pulp	0.13	0.224	97.8	2714.1	20.5	84	0.4	57.8	15.3	554	4.40	17	4.5	17.6	300	0.2	2.2	0.6	124	2.60
3486661	Drill Core	4.76	0.009	0.9	304.9	21.1	115	0.3	3.3	20.3	1516	5.85	5	0.5	0.8	758	0.4	0.7	<0.1	211	4.81
3486662	Drill Core	5.13	0.008	1.0	154.7	19.5	93	0.2	2.8	20.3	1209	5.04	5	0.5	1.0	700	0.2	0.8	<0.1	182	4.10
3486663	Drill Core	5.17	0.007	1.2	156.5	9.8	89	0.1	2.7	18.7	1400	5.21	5	0.4	0.8	828	0.2	1.1	<0.1	157	4.38
3486664	Drill Core	4.63	0.005	2.2	239.0	14.9	101	0.2	2.8	16.2	1469	5.65	6	0.4	1.0	1082	0.3	1.4	<0.1	191	5.73
3486665	Drill Core	2.19	0.026	2.2	134.8	14.7	86	0.1	2.5	21.5	1236	4.63	6	0.4	0.8	856	0.2	1.2	<0.1	164	5.71
3486666	Drill Core	3.86	0.009	8.0	226.6	61.2	97	0.3	2.2	19.1	1234	5.10	6	0.8	0.9	1009	0.5	2.0	0.3	199	4.19
3486667	Drill Core	3.17	0.014	107.9	168.0	32.8	88	0.2	2.0	18.4	1028	3.94	4	2.4	0.9	292	0.2	0.3	0.4	132	3.34
3486668	Drill Core	4.45	0.020	9.5	200.5	12.1	91	0.2	2.0	15.1	1087	4.29	3	0.6	1.0	386	0.4	0.7	<0.1	154	3.50
3486669	Drill Core	4.68	0.005	2.6	168.3	237.6	132	0.5	2.1	14.8	1162	4.21	2	0.6	1.1	495	1.5	0.9	0.7	172	3.96
3486670	Rock	1.41	<0.005	0.1	1.0	0.5	2	<0.1	<0.1	<0.2	135	0.09	<1	<0.1	<0.1	79	<0.1	<0.1	<0.1	<1	32.66
3486671	Drill Core	4.38	0.009	1.7	162.6	79.5	84	0.3	2.0	13.9	1139	4.16	2	0.6	0.9	473	0.3	1.1	0.2	153	3.99
3486672	Drill Core	4.28	0.010	1.4	156.1	75.6	108	0.2	1.8	14.2	1121	4.27	2	0.5	1.0	377	1.0	1.3	0.2	133	3.49
3486673	Drill Core	2.93	0.012	1.3	176.7	57.3	119	0.2	1.8	14.2	1223	4.02	3	0.6	1.2	412	1.0	1.7	0.2	136	3.80

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

CERTIFICATE OF ANALYSIS VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486654	Drill Core	0.292	11.9	1	1.47	571	0.492	9.18	3.327	3.05	0.5	16.5	25	0.4	16.6	4.8	0.3	<1	9	23.8	0.6
3486655	Drill Core	0.282	9.3	2	1.41	648	0.510	8.89	3.077	3.85	0.6	17.0	21	0.5	15.6	5.9	0.3	2	9	30.9	0.8
3486656	Drill Core	0.332	11.8	2	1.49	643	0.519	9.24	3.005	2.93	0.6	16.1	25	0.5	17.4	5.4	0.2	2	10	23.5	0.7
3486657	Drill Core	0.285	9.6	2	1.47	724	0.525	8.89	3.193	3.38	0.5	14.6	22	0.5	15.6	4.9	0.3	2	9	29.2	0.3
3486658	Drill Core	0.280	12.3	1	1.39	464	0.526	8.98	2.610	4.96	0.6	14.7	26	0.8	17.2	7.4	0.2	4	9	32.1	1.2
3486659	Drill Core	0.338	12.9	2	1.56	722	0.418	8.49	3.659	4.34	1.0	12.4	27	0.5	17.6	4.4	0.2	2	10	28.8	1.1
3486660	Rock Pulp	0.091	31.2	82	1.49	1060	0.484	7.70	2.181	3.59	4.3	69.5	66	3.3	22.1	17.5	1.2	2	12	33.6	0.3
3486661	Drill Core	0.273	10.2	1	1.35	726	0.510	8.92	2.770	4.88	0.6	12.9	23	0.6	14.8	5.7	0.3	2	8	23.4	0.8
3486662	Drill Core	0.230	8.3	2	1.16	321	0.434	8.87	3.226	5.18	0.5	13.1	19	0.6	13.3	6.1	0.2	2	7	21.3	1.0
3486663	Drill Core	0.227	9.2	1	1.28	1419	0.428	9.23	3.077	4.63	0.6	15.9	20	0.5	12.7	5.4	0.3	1	7	20.3	0.6
3486664	Drill Core	0.255	8.6	2	1.26	1247	0.475	9.12	3.387	3.69	0.6	18.9	20	0.7	14.7	6.8	0.4	<1	8	15.3	0.3
3486665	Drill Core	0.194	8.2	2	0.98	316	0.340	8.96	3.613	3.67	0.5	9.3	17	0.5	11.8	5.0	0.3	<1	6	15.4	1.0
3486666	Drill Core	0.199	7.6	2	1.11	470	0.367	9.39	2.717	4.75	0.9	14.8	17	0.7	12.3	7.0	0.3	2	6	20.6	0.8
3486667	Drill Core	0.204	7.6	2	0.87	196	0.310	8.44	3.688	5.57	1.6	17.2	17	0.6	11.0	6.1	0.2	2	6	19.7	1.3
3486668	Drill Core	0.210	7.4	1	1.04	766	0.291	9.28	3.341	5.27	1.1	13.8	16	0.5	11.1	4.8	0.3	1	6	26.7	0.6
3486669	Drill Core	0.189	7.5	1	1.00	773	0.245	8.77	3.111	5.16	0.7	14.0	16	0.6	11.1	5.0	0.2	2	5	29.3	0.6
3486670	Rock	0.006	1.3	<1	2.10	11	0.004	0.05	0.028	0.02	<0.1	1.2	1	<0.1	2.0	0.2	<0.1	<1	<1	0.9	<0.1
3486671	Drill Core	0.184	5.9	1	0.92	1260	0.234	8.51	2.835	5.28	0.7	16.0	14	0.6	10.1	5.2	0.2	2	5	29.9	0.5
3486672	Drill Core	0.187	5.7	1	0.95	1171	0.232	8.77	3.021	4.83	0.8	14.6	14	0.5	9.2	4.3	0.2	1	5	26.9	0.3
3486673	Drill Core	0.207	8.1	1	0.96	945	0.174	9.24	3.468	4.86	1.5	12.8	17	0.4	10.7	3.0	0.2	2	5	30.5	0.6

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Project: MAX
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	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
3486654	Drill Core	46.0	0.6	<0.05	<0.005	1	<0.5	<0.5
3486655	Drill Core	47.4	0.6	<0.05	<0.005	1	<0.5	<0.5
3486656	Drill Core	42.9	0.6	<0.05	<0.005	1	<0.5	<0.5
3486657	Drill Core	41.5	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486658	Drill Core	84.9	0.6	<0.05	0.007	2	<0.5	<0.5
3486659	Drill Core	69.6	0.5	<0.05	0.005	<1	<0.5	<0.5
3486660	Rock Pulp	175.8	2.3	0.05	0.006	2	<0.5	1.1
3486661	Drill Core	56.5	0.5	<0.05	<0.005	1	<0.5	<0.5
3486662	Drill Core	58.3	0.4	<0.05	<0.005	1	<0.5	<0.5
3486663	Drill Core	55.0	0.6	<0.05	<0.005	<1	<0.5	<0.5
3486664	Drill Core	34.3	0.7	<0.05	<0.005	<1	<0.5	<0.5
3486665	Drill Core	40.1	0.4	<0.05	0.024	1	<0.5	<0.5
3486666	Drill Core	59.3	0.5	<0.05	0.009	<1	<0.5	<0.5
3486667	Drill Core	61.8	0.5	<0.05	0.224	<1	<0.5	<0.5
3486668	Drill Core	84.5	0.4	<0.05	0.017	<1	<0.5	<0.5
3486669	Drill Core	83.9	0.4	<0.05	0.008	1	<0.5	<0.5
3486670	Rock	0.3	<0.1	<0.05	<0.005	<1	3.7	<0.5
3486671	Drill Core	73.3	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486672	Drill Core	70.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486673	Drill Core	86.9	0.4	<0.05	<0.005	<1	<0.5	<0.5

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3486505	Drill Core	2.41	0.007	1.5	438.2	4.1	108	0.4	21.7	50.7	1728	10.82	3	0.7	0.3	316	0.2	0.8	<0.1	579	8.73
REP 3486505	QC			1.5	442.6	3.6	107	0.3	21.8	51.9	1781	10.85	3	0.6	0.3	322	0.2	0.8	<0.1	602	8.92
3486517	Drill Core	5.26	0.007	1.5	315.7	14.7	76	0.3	11.6	31.6	853	5.77	3	0.2	0.1	745	0.2	0.5	<0.1	384	5.92
REP 3486517	QC		0.007																		
3486538	Drill Core	5.08	0.010	0.4	102.4	7.7	80	0.1	24.9	45.8	1213	8.81	4	0.5	0.2	701	0.1	0.6	0.1	512	8.77
REP 3486538	QC		0.009	0.4	103.7	7.8	82	0.1	25.2	46.4	1237	8.82	4	0.5	0.2	705	0.1	0.6	0.1	513	9.04
3486574	Drill Core	3.05	0.009	0.8	39.1	12.3	93	<0.1	18.3	42.1	1671	8.67	6	0.4	0.1	336	0.1	0.6	<0.1	470	8.00
REP 3486574	QC			0.8	39.7	12.5	95	<0.1	18.6	42.7	1679	8.86	6	0.4	0.1	343	0.1	0.6	<0.1	481	8.09
3486592	Drill Core	2.57	0.008	0.4	40.1	17.9	78	0.1	26.0	36.4	1301	7.11	3	0.8	0.7	335	0.1	0.4	0.1	360	7.34
REP 3486592	QC		0.008																		
3486609	Drill Core	2.64	0.010	16.4	207.0	149.8	308	0.6	21.0	28.4	1372	5.99	2	1.4	1.6	618	6.6	0.7	1.0	255	5.46
REP 3486609	QC			16.3	214.2	145.5	298	0.6	21.6	28.4	1381	6.07	2	1.5	1.7	598	6.8	0.8	0.9	257	5.31
3486613	Drill Core	4.86	0.008	24.9	202.5	22.2	62	0.3	3.2	19.1	918	4.47	3	0.8	1.6	585	0.3	0.9	<0.1	204	4.41
REP 3486613	QC		0.009																		
3486643	Drill Core	4.68	0.007	1.0	126.1	10.6	77	0.1	2.3	16.6	1078	4.39	6	0.6	0.8	862	0.1	0.9	<0.1	167	3.84
REP 3486643	QC			0.9	117.8	9.4	74	0.1	2.2	15.9	1071	4.39	5	0.6	0.7	781	0.2	0.9	<0.1	166	3.80
3486662	Drill Core	5.13	0.008	1.0	154.7	19.5	93	0.2	2.8	20.3	1209	5.04	5	0.5	1.0	700	0.2	0.8	<0.1	182	4.10
REP 3486662	QC		0.010																		
Core Reject Duplicates																					
3486536	Drill Core	5.40	0.008	0.5	81.9	12.2	71	0.1	21.0	43.2	1225	8.33	3	0.3	0.2	590	0.1	0.6	0.1	472	8.41
DUP 3486536	QC		0.008	0.5	85.2	11.8	74	0.1	21.9	44.6	1254	8.50	3	0.3	0.2	610	0.1	0.7	0.1	489	8.69
3486604	Drill Core	2.47	<0.005	1.1	123.6	5.2	72	<0.1	60.3	26.0	1247	5.19	3	1.1	2.0	790	<0.1	0.5	<0.1	195	3.97
DUP 3486604	QC		0.005	1.1	122.7	5.1	73	<0.1	60.3	26.2	1234	5.09	3	1.0	2.1	758	<0.1	0.5	<0.1	195	4.12
3486638	Drill Core	4.41	0.012	2.6	144.6	11.4	76	0.1	2.4	18.1	1054	4.72	16	0.5	0.9	615	0.2	1.0	<0.1	151	4.40
DUP 3486638	QC		0.013	2.6	133.3	10.8	69	0.1	2.7	15.8	1028	4.60	15	0.5	0.9	584	0.1	0.8	<0.1	152	4.24
3486672	Drill Core	4.28	0.010	1.4	156.1	75.6	108	0.2	1.8	14.2	1121	4.27	2	0.5	1.0	377	1.0	1.3	0.2	133	3.49
DUP 3486672	QC		0.007	1.4	155.5	74.9	111	0.2	2.0	15.3	1153	4.35	2	0.5	1.1	408	0.8	1.3	0.2	134	3.64
Reference Materials																					

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3486505	Drill Core	0.229	4.0	41	3.91	323	0.627	5.70	0.845	3.20	0.2	11.2	9	0.4	12.8	1.1	0.1	2	33	76.5	0.6
REP 3486505	QC	0.233	4.0	42	4.03	324	0.667	5.88	0.867	3.09	0.2	12.5	10	0.4	12.8	1.1	0.1	2	34	73.8	0.7
3486517	Drill Core	0.024	1.1	3	2.41	432	0.375	8.75	1.119	3.48	0.5	4.8	3	0.5	3.7	0.9	<0.1	2	14	84.1	0.6
REP 3486517	QC																				
3486538	Drill Core	0.013	2.1	5	3.62	360	0.444	7.94	0.940	2.80	0.8	10.8	4	0.5	7.0	1.6	0.3	3	32	60.1	1.1
REP 3486538	QC	0.014	2.0	5	3.63	362	0.449	8.02	0.950	2.79	0.8	11.2	4	0.5	7.1	1.6	0.2	3	32	61.5	1.1
3486574	Drill Core	0.014	1.7	5	3.53	426	0.460	7.02	0.861	3.47	0.3	7.3	4	0.5	7.1	1.1	<0.1	1	32	73.0	1.0
REP 3486574	QC	0.014	1.7	5	3.57	444	0.472	7.14	0.882	3.88	0.3	7.2	4	0.4	7.4	1.1	<0.1	1	33	76.2	1.0
3486592	Drill Core	0.024	3.1	11	3.18	533	0.368	8.41	1.407	4.38	0.3	10.9	7	0.6	6.9	2.6	0.1	2	27	84.9	1.7
REP 3486592	QC																				
3486609	Drill Core	0.128	8.6	68	2.60	111	0.401	6.59	0.776	5.28	0.4	30.3	17	1.2	14.5	8.6	0.3	4	20	57.9	2.0
REP 3486609	QC	0.130	8.5	69	2.63	133	0.385	6.58	0.845	5.59	0.3	30.1	18	1.2	13.9	8.4	0.3	4	21	60.1	2.0
3486613	Drill Core	0.222	8.6	1	1.52	283	0.369	9.73	2.765	6.09	1.4	22.4	19	0.8	12.9	6.8	0.3	2	8	69.5	1.3
REP 3486613	QC																				
3486643	Drill Core	0.215	7.0	2	1.11	290	0.378	9.11	2.935	5.56	0.4	14.0	16	0.6	11.5	4.9	0.2	1	6	36.6	1.1
REP 3486643	QC	0.201	7.2	2	1.10	216	0.365	9.09	2.875	6.14	0.4	13.7	16	0.5	11.0	4.6	0.2	2	6	33.2	1.0
3486662	Drill Core	0.230	8.3	2	1.16	321	0.434	8.87	3.226	5.18	0.5	13.1	19	0.6	13.3	6.1	0.2	2	7	21.3	1.0
REP 3486662	QC																				
Core Reject Duplicates																					
3486536	Drill Core	0.014	1.8	6	3.65	323	0.425	8.06	0.864	2.75	1.3	9.2	4	0.4	7.2	1.2	<0.1	2	30	66.2	0.6
DUP 3486536	QC	0.014	1.8	6	3.74	332	0.445	8.21	0.881	2.72	1.3	9.1	4	0.5	7.2	1.2	<0.1	2	30	68.6	0.6
3486604	Drill Core	0.199	12.1	122	3.15	851	0.322	7.98	2.693	4.37	0.3	33.7	24	0.5	12.3	5.2	0.3	2	12	77.1	0.4
DUP 3486604	QC	0.191	11.5	125	3.06	827	0.316	8.04	2.725	4.38	0.3	40.1	22	0.5	11.8	5.1	0.3	2	12	75.4	0.4
3486638	Drill Core	0.189	6.8	2	1.24	171	0.351	8.99	2.566	5.79	1.1	15.1	16	0.4	11.6	4.3	0.2	2	7	43.5	1.7
DUP 3486638	QC	0.185	6.5	1	1.23	209	0.336	8.84	2.521	5.49	1.0	14.2	15	0.4	10.7	4.0	0.2	1	6	40.6	1.6
3486672	Drill Core	0.187	5.7	1	0.95	1171	0.232	8.77	3.021	4.83	0.8	14.6	14	0.5	9.2	4.3	0.2	1	5	26.9	0.3
DUP 3486672	QC	0.212	7.3	2	0.99	1215	0.252	9.33	2.990	4.80	0.8	15.9	16	0.5	10.9	4.4	0.2	2	6	27.7	0.3
Reference Materials																					

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Rb	Hf	In	Re	Se	Te	Tl
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5
Pulp Duplicates								
3486505	Drill Core	114.2	0.5	0.05	<0.005	1	<0.5	0.7
REP 3486505	QC	111.5	0.5	0.05	<0.005	1	<0.5	0.7
3486517	Drill Core	38.1	0.2	<0.05	<0.005	<1	<0.5	0.5
REP 3486517	QC							
3486538	Drill Core	75.0	0.5	<0.05	<0.005	1	<0.5	<0.5
REP 3486538	QC	76.1	0.5	<0.05	<0.005	1	<0.5	<0.5
3486574	Drill Core	113.3	0.3	<0.05	<0.005	<1	<0.5	0.5
REP 3486574	QC	122.2	0.4	<0.05	<0.005	<1	<0.5	0.6
3486592	Drill Core	135.7	0.5	<0.05	<0.005	2	<0.5	0.6
REP 3486592	QC							
3486609	Drill Core	137.1	1.1	<0.05	0.051	4	<0.5	0.7
REP 3486609	QC	144.7	0.9	<0.05	0.047	3	0.6	0.8
3486613	Drill Core	98.3	0.6	<0.05	0.054	2	<0.5	<0.5
REP 3486613	QC							
3486643	Drill Core	69.2	0.5	<0.05	<0.005	2	<0.5	<0.5
REP 3486643	QC	72.0	0.5	<0.05	<0.005	<1	<0.5	<0.5
3486662	Drill Core	58.3	0.4	<0.05	<0.005	1	<0.5	<0.5
REP 3486662	QC							
Core Reject Duplicates								
3486536	Drill Core	81.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
DUP 3486536	QC	84.8	0.4	<0.05	<0.005	<1	<0.5	<0.5
3486604	Drill Core	137.8	1.1	<0.05	<0.005	<1	<0.5	0.6
DUP 3486604	QC	137.8	0.9	<0.05	<0.005	<1	<0.5	0.6
3486638	Drill Core	80.1	0.5	<0.05	<0.005	1	<0.5	<0.5
DUP 3486638	QC	71.5	0.5	<0.05	<0.005	2	<0.5	<0.5
3486672	Drill Core	70.2	0.4	<0.05	<0.005	<1	<0.5	<0.5
DUP 3486672	QC	81.1	0.5	<0.05	<0.005	<1	<0.5	<0.5
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Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OREAS25A-4A	Standard			2.5	32.4	24.0	45	<0.1	47.3	8.0	493	6.69	9	2.6	14.4	44	<0.1	0.6	0.3	168	0.25
STD OREAS25A-4A	Standard			2.4	32.9	24.4	45	<0.1	47.8	8.0	495	6.70	9	2.8	15.0	45	<0.1	0.6	0.4	161	0.28
STD OREAS25A-4A	Standard			2.5	34.6	24.6	49	<0.1	48.7	8.1	490	6.64	11	2.8	15.9	49	<0.1	0.5	0.4	159	0.29
STD OREAS25A-4A	Standard			2.1	32.8	23.3	45	<0.1	46.1	7.3	487	6.58	9	2.6	15.2	46	<0.1	0.5	0.3	157	0.29
STD OREAS25A-4A	Standard			2.5	32.7	24.9	46	0.1	48.1	8.2	496	6.73	10	2.7	14.8	47	<0.1	0.6	0.4	166	0.29
STD OREAS45E	Standard			2.3	768.2	18.3	45	0.3	466.9	58.6	557	24.73	15	2.3	13.0	16	<0.1	0.9	0.3	331	0.07
STD OREAS45E	Standard			2.3	770.7	18.3	45	0.3	461.5	59.2	552	25.34	15	2.3	13.0	16	<0.1	0.9	0.3	331	0.07
STD OREAS45E	Standard			2.3	777.3	18.0	52	0.3	470.9	62.1	534	24.48	16	2.2	12.5	17	<0.1	0.9	0.3	323	0.06
STD OREAS45H	Standard			1.4	788.0	12.4	42	0.1	445.8	92.4	405	20.82	16	1.7	7.9	31	<0.1	0.5	0.1	274	0.14
STD OREAS45H	Standard			1.6	764.9	12.2	41	0.2	438.0	90.3	394	20.37	16	1.6	7.2	28	<0.1	0.6	0.2	276	0.14
STD OXB130	Standard		0.122																		
STD OXB130	Standard		0.127																		
STD OXB130	Standard		0.119																		
STD OXG141	Standard		0.916																		
STD OXG141	Standard		0.925																		
STD OXG141	Standard		0.907																		
STD OXN155	Standard		7.757																		
STD OXN155	Standard		7.426																		
STD OXN155	Standard		7.717																		
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank		0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01

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Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OREAS25A-4A	Standard	0.050	19.1	124	0.33	145	0.922	8.63	0.140	0.50	1.9	156.4	42	3.7	9.7	20.3	1.4	<1	13	39.9	<0.1
STD OREAS25A-4A	Standard	0.049	21.3	116	0.34	150	0.906	9.10	0.139	0.50	1.8	154.7	47	3.7	10.1	19.8	1.4	<1	13	38.3	<0.1
STD OREAS25A-4A	Standard	0.055	23.1	116	0.37	155	0.885	9.25	0.156	0.50	1.8	156.4	49	3.9	10.1	20.4	1.4	<1	12	40.0	<0.1
STD OREAS25A-4A	Standard	0.049	20.8	116	0.34	144	0.890	9.31	0.139	0.49	1.8	147.2	46	3.4	9.9	18.8	1.3	<1	12	36.2	<0.1
STD OREAS25A-4A	Standard	0.050	23.5	119	0.34	152	0.894	9.07	0.138	0.51	1.9	155.9	51	3.7	9.9	19.5	1.4	<1	13	37.1	<0.1
STD OREAS45E	Standard	0.034	11.0	1021	0.17	245	0.523	6.75	0.064	0.34	1.0	96.1	23	1.2	8.0	6.0	0.5	<1	92	6.8	<0.1
STD OREAS45E	Standard	0.035	11.4	1008	0.17	256	0.516	6.86	0.065	0.34	0.9	100.8	24	1.2	7.6	6.0	0.5	<1	93	6.7	<0.1
STD OREAS45E	Standard	0.031	10.4	1054	0.16	256	0.515	7.06	0.065	0.34	1.0	90.2	23	1.2	7.2	5.8	0.5	<1	86	6.6	<0.1
STD OREAS45H	Standard	0.022	12.9	658	0.26	355	0.895	8.67	0.098	0.24	1.0	126.4	25	1.8	9.5	13.4	1.0	1	56	13.1	<0.1
STD OREAS45H	Standard	0.023	13.2	663	0.26	346	0.871	8.10	0.098	0.21	0.9	131.3	25	1.9	9.5	14.3	1.0	1	58	13.3	<0.1
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.005	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1

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BUREAU VERITAS
MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
STD OREAS25A-4A	Standard	56.0	4.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	59.5	4.1	0.09	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	62.6	4.1	0.15	<0.005	2	<0.5	<0.5
STD OREAS25A-4A	Standard	57.7	3.8	0.06	<0.005	3	<0.5	<0.5
STD OREAS25A-4A	Standard	62.2	4.3	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.4	2.8	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	21.6	2.8	0.09	<0.005	3	<0.5	<0.5
STD OREAS45E	Standard	20.2	2.6	0.07	<0.005	3	<0.5	<0.5
STD OREAS45H	Standard	22.8	3.6	0.11	<0.005	1	<0.5	<0.5
STD OREAS45H	Standard	23.3	3.6	0.10	<0.005	2	<0.5	<0.5
STD OXB130	Standard							
STD OXB130	Standard							
STD OXB130	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXG141	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OXN155	Standard							
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35
STD OREAS45H Expected		22.5	3.6	0.1		2.02		
STD OXG141 Expected								
STD OXN155 Expected								
STD OXB130 Expected								
BLK	Blank							
BLK	Blank							
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	3	<0.01	<1	<0.1	<0.1	1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		<0.005	0.6	2.3	2.2	28	<0.1	0.6	3.2	543	1.82	2	1.3	2.8	184	<0.1	0.1	<0.1	30	1.36
ROCK-VAN	Prep Blank		<0.005	0.8	2.5	2.3	29	<0.1	0.6	3.3	581	1.97	2	1.2	2.8	184	<0.1	0.1	<0.1	31	1.45

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299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 16, 2020

QUALITY CONTROL REPORT VAN20001267.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.034	12.9	4	0.42	761	0.175	6.70	3.661	1.56	0.2	49.6	24	0.6	14.4	5.5	0.4	<1	5	2.6	<0.1
ROCK-VAN	Prep Blank	0.037	12.8	3	0.43	671	0.180	6.70	3.607	1.47	0.2	48.7	24	0.7	14.8	5.3	0.4	<1	5	2.5	<0.1

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QUALITY CONTROL REPORT VAN20001267.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5
BLK	Blank							
BLK	Blank							
BLK	Blank							
Prep Wash								
ROCK-VAN	Prep Blank	31.1	1.7	<0.05	<0.005	<1	<0.5	<0.5
ROCK-VAN	Prep Blank	30.1	1.6	<0.05	<0.005	<1	<0.5	<0.5

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Submitted By:	Mt. Milligan Notification List
Receiving Lab:	Canada-Vancouver
Received:	July 06, 2020
Analysis Start:	July 09, 2020
Report Date:	July 19, 2020
Page:	1 of 4

CERTIFICATE OF ANALYSIS VAN20001280.1

CLIENT JOB INFORMATION

Project:	MAX
Shipment ID:	MAX20_Core_13
P.O. Number	M22165
Number of Samples:	78

SAMPLE DISPOSAL

RTRN-PLP	Return After 90 days
RTRN-RJT	Return After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP80-250	72	Crush, split and pulverize 250 g rock to 200 mesh			VAN
SPTRF	2	Split samples by riffle splitter			VAN
PUL85	2	Pulverize to 85% passing 200 mesh			VAN
SLBHP	4	Sort, label and box pulps			VAN
FA430	78	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN
EN002	78	Environmental disposal charge-Fire assay lead waste			VAN
MA200	78	4 Acid digestion ICP-MS analysis	0.25	Completed	VAN
MA404	1	4 Acid Digest AAS Finish for Cu VAN	0.5	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Thompson Creek Metals
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8
Canada

CC: Mt. Milligan Data Distribution List

BRITISH COLUMBIA CERTIFIED ASSAYER
Marcus Lau
MARCUS LAU
Production Manager

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All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486674	Drill Core	3.50	0.034	435.4	85.6	3913.7	1200	7.5	2.1	8.8	1060	2.87	<1	2.6	0.7	222	31.5	1.7	14.1	104	4.68
3486675	Core DUP		0.034	432.9	86.2	3870.6	1213	7.6	3.3	8.8	1064	2.90	2	2.5	0.7	227	32.9	1.8	14.4	102	4.63
3486676	Drill Core	4.46	0.039	112.7	97.1	378.2	176	0.9	8.5	30.2	2330	6.54	2	2.1	0.6	376	2.8	2.7	1.8	375	9.11
3486677	Drill Core	4.13	0.006	1.5	283.6	146.2	316	0.4	12.1	45.0	2668	10.34	2	0.6	0.8	463	5.5	2.1	0.4	536	7.30
3486678	Drill Core	3.99	<0.005	1.8	165.4	15.3	132	0.1	11.3	39.5	1992	9.08	2	0.3	0.7	492	0.6	2.0	<0.1	420	7.41
3486679	Drill Core	4.21	0.008	1.1	341.4	24.7	118	0.3	11.0	38.6	1823	8.30	3	0.5	1.1	573	0.3	1.6	0.2	380	7.47
3486680	Rock Pulp	0.13	0.673	346.4	5152.4	22.3	74	1.3	34.2	16.7	552	4.84	53	4.8	18.5	368	0.3	3.4	1.3	120	2.58
3486681	Drill Core	2.95	0.011	0.9	312.1	6.9	116	0.2	13.3	39.5	1953	8.31	4	0.3	0.7	461	0.3	1.7	<0.1	397	7.32
3486682	Drill Core	4.77	0.012	2.5	422.9	26.7	131	0.4	13.6	47.0	2143	10.68	6	0.5	1.0	1560	0.4	3.3	0.1	509	8.44
3486683	Drill Core	5.54	0.019	0.7	868.3	29.2	138	0.7	11.2	47.0	2027	10.65	5	0.8	0.8	1089	1.2	2.1	0.2	575	8.88
3486684	Drill Core	5.23	0.009	0.7	530.3	11.8	118	0.4	10.0	43.4	1838	9.02	7	0.3	0.7	1153	0.3	2.4	<0.1	421	9.61
3486685	Drill Core	4.41	0.007	0.8	463.6	389.1	315	1.2	8.7	37.2	2213	7.47	3	1.1	0.4	432	6.9	0.5	2.3	481	7.22
3486686	Drill Core	2.73	0.008	1.6	392.8	11.4	100	0.3	10.2	42.3	1705	9.47	11	0.2	0.5	1908	0.2	3.1	<0.1	483	8.70
3486687	Drill Core	3.68	0.015	26.4	665.8	11.5	114	0.5	13.4	48.2	1906	10.74	7	0.2	0.4	1497	0.3	2.9	<0.1	558	8.37
3486688	Drill Core	1.28	0.007	0.4	579.5	6.1	105	0.6	11.6	37.8	1912	9.05	4	0.6	0.6	515	0.4	1.4	<0.1	442	7.91
3486689	Drill Core	2.89	0.012	1.1	557.3	15.5	141	0.7	6.8	29.8	2089	8.26	4	1.4	2.2	728	0.4	1.0	<0.1	395	6.00
3486690	Rock	1.59	<0.005	<0.1	1.4	0.5	2	<0.1	0.3	0.2	121	0.11	<1	<0.1	<0.1	74	<0.1	<0.1	<0.1	2	34.19
3486691	Drill Core	4.95	0.005	3.0	236.2	24.3	101	0.3	2.8	20.3	1410	5.44	4	0.8	1.3	658	0.3	0.6	0.1	216	4.36
3486692	Drill Core	4.95	<0.005	5.1	308.4	18.2	123	0.3	4.5	29.7	2067	7.46	4	1.1	1.2	689	0.3	1.0	0.1	355	5.44
3486693	Drill Core	5.33	<0.005	1.1	267.1	13.7	144	0.2	6.1	31.0	2264	8.05	3	1.3	1.9	644	0.3	0.8	<0.1	332	5.50
3486694	Drill Core	2.58	0.006	12.2	310.0	26.2	111	0.2	5.8	27.4	1647	6.50	5	1.5	2.4	821	0.4	0.8	<0.1	242	4.71
3486695	Drill Core	4.51	0.006	19.9	233.8	114.5	154	0.5	3.6	16.7	1307	4.27	3	3.1	1.7	711	2.7	0.8	0.6	182	4.66
3486696	Drill Core	3.00	0.010	4.6	356.4	38.6	177	0.4	5.5	24.8	1912	6.17	8	1.0	1.1	856	2.0	1.4	0.2	294	5.01
3486697	Drill Core	5.08	0.007	6.3	142.7	293.5	180	0.9	3.9	20.1	1312	4.92	18	1.1	1.0	768	3.0	1.5	1.6	236	4.42
3486698	Drill Core	5.29	<0.005	0.8	236.7	41.5	379	0.2	4.6	22.0	1749	5.26	5	0.9	0.8	698	3.4	0.7	<0.1	261	4.86
3486699	Drill Core	5.09	0.005	1.8	174.6	67.0	265	0.2	4.3	19.8	1790	5.15	11	1.0	0.9	658	1.3	0.8	0.1	255	4.79
3486700	Rock Pulp	0.11	1.376	258.0	>10000	22.5	100	2.5	23.4	12.4	754	5.10	6	1.1	4.1	482	0.8	2.8	0.3	91	2.06
3486701	Drill Core	4.57	<0.005	7.8	40.4	417.4	294	0.9	1.1	2.9	491	0.94	3	0.6	0.2	276	8.2	0.2	2.1	46	2.32
3486702	Drill Core	4.93	0.006	7.8	159.7	349.5	503	0.8	2.3	11.7	1141	2.96	9	1.3	0.4	384	11.3	0.5	1.7	200	4.55
3486703	Drill Core	4.41	0.005	2.9	88.4	667.4	304	1.2	0.9	6.5	603	1.77	5	1.4	0.3	196	6.6	0.2	3.7	206	2.17

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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486674	Drill Core	0.074	11.3	3	0.39	379	0.074	2.71	0.515	2.44	5.3	6.7	14	0.4	5.9	2.2	<0.1	2	3	7.6	1.0
3486675	Core DUP	0.075	11.3	3	0.40	445	0.072	2.72	0.500	2.44	5.2	7.4	15	0.3	6.1	2.2	<0.1	<1	3	6.9	1.0
3486676	Drill Core	0.187	10.5	5	1.18	153	0.252	6.65	1.464	4.76	6.0	10.3	18	1.2	12.8	2.0	<0.1	3	19	23.3	2.0
3486677	Drill Core	0.275	13.7	9	2.90	413	0.496	6.78	1.873	3.25	0.9	6.7	22	0.5	12.5	2.1	0.1	2	28	51.6	0.4
3486678	Drill Core	0.238	8.5	9	3.11	418	0.419	7.42	2.150	3.09	0.8	6.9	17	0.4	11.8	1.7	<0.1	2	26	45.4	0.4
3486679	Drill Core	0.222	8.1	6	2.93	535	0.462	7.75	2.231	2.18	0.7	13.9	17	0.6	16.5	3.1	0.2	2	23	40.7	0.4
3486680	Rock Pulp	0.110	33.9	64	1.43	941	0.495	7.32	2.015	3.30	3.2	75.4	67	3.3	23.4	19.8	1.4	3	12	29.8	0.7
3486681	Drill Core	0.190	6.8	10	3.21	351	0.498	6.82	1.723	1.66	0.3	14.6	14	0.5	16.4	2.3	0.1	<1	27	36.5	0.2
3486682	Drill Core	0.216	7.7	12	3.65	391	0.705	7.10	1.423	1.52	0.4	21.4	17	0.8	19.4	3.5	0.2	<1	30	30.4	0.2
3486683	Drill Core	0.189	7.0	9	3.47	391	0.704	6.36	1.278	1.53	0.5	22.1	15	1.3	18.2	5.5	0.2	4	31	26.9	1.2
3486684	Drill Core	0.248	6.6	7	3.22	472	0.561	8.06	1.155	1.72	0.3	12.1	14	0.5	15.2	2.4	0.1	2	25	33.1	0.3
3486685	Drill Core	0.070	4.7	5	2.69	755	0.460	6.52	1.223	4.20	0.3	10.9	9	0.7	10.4	4.5	<0.1	6	23	63.6	1.5
3486686	Drill Core	0.086	4.7	6	3.25	460	0.601	8.41	1.035	2.48	0.7	12.5	11	0.4	13.1	2.1	0.1	1	30	41.1	0.2
3486687	Drill Core	0.053	4.3	6	3.62	368	0.662	7.88	0.915	2.43	0.4	19.4	9	0.5	13.6	2.2	0.1	<1	34	41.1	0.2
3486688	Drill Core	0.078	5.5	5	3.22	627	0.584	7.05	1.085	4.07	0.7	18.7	12	0.5	15.7	3.0	0.2	2	31	60.1	0.5
3486689	Drill Core	0.336	16.9	5	2.14	412	0.641	7.93	1.276	6.13	0.7	26.0	34	0.9	24.7	9.5	0.5	3	14	61.9	2.0
3486690	Rock	0.006	1.1	<1	2.23	11	0.005	0.06	0.023	0.02	<0.1	1.0	<1	<0.1	1.9	<0.1	<0.1	<1	<1	1.2	<0.1
3486691	Drill Core	0.222	9.6	2	1.48	268	0.396	8.40	2.004	6.56	0.7	15.8	20	0.6	15.4	6.2	0.3	3	9	50.4	1.5
3486692	Drill Core	0.302	13.7	3	2.26	316	0.572	7.50	1.653	5.91	0.8	19.6	28	0.6	22.1	7.9	0.4	3	17	54.9	1.3
3486693	Drill Core	0.304	15.0	4	2.48	1059	0.608	7.74	1.767	5.76	0.6	33.3	31	0.6	24.1	8.1	0.4	3	17	54.4	1.1
3486694	Drill Core	0.296	15.0	3	1.97	158	0.434	8.52	1.959	6.23	0.5	23.4	32	0.8	22.5	8.4	0.4	2	13	50.8	1.8
3486695	Drill Core	0.192	10.1	3	1.17	180	0.275	6.38	1.296	5.26	0.6	20.6	21	0.8	14.7	6.6	0.3	3	8	31.0	1.8
3486696	Drill Core	0.305	11.8	2	1.67	124	0.351	8.45	1.207	7.43	0.6	12.4	25	0.6	18.3	3.7	0.2	4	12	45.2	2.7
3486697	Drill Core	0.239	8.3	2	1.24	174	0.251	6.70	1.027	6.63	1.0	10.6	19	0.4	13.5	4.4	0.1	2	9	26.5	3.1
3486698	Drill Core	0.263	10.0	2	1.67	163	0.367	8.19	1.116	6.49	0.7	10.4	23	0.4	16.5	4.3	0.2	3	11	46.8	1.8
3486699	Drill Core	0.253	10.1	2	1.58	150	0.285	8.43	0.956	7.71	0.6	10.9	22	0.4	15.8	3.6	0.2	3	11	53.3	2.1
3486700	Rock Pulp	0.075	13.5	39	0.92	207	0.287	7.56	2.404	1.94	1.9	32.1	28	2.6	13.4	6.2	0.4	1	10	16.5	1.2
3486701	Drill Core	0.034	2.3	4	0.20	276	0.042	1.00	0.291	0.81	0.2	1.5	4	0.2	3.4	1.5	<0.1	<1	1	5.5	0.5
3486702	Drill Core	0.167	5.8	2	0.92	139	0.153	4.26	0.985	3.49	0.4	7.0	12	0.6	8.5	4.1	0.1	5	5	28.0	2.0
3486703	Drill Core	0.082	3.5	2	0.49	506	0.082	2.23	0.705	1.90	0.3	3.6	7	0.6	4.5	3.7	<0.1	5	3	10.0	0.9

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486674	Drill Core	33.8	0.2	<0.05	0.559	10	<0.5	<0.5	
3486675	Core DUP	34.7	0.3	<0.05	0.537	11	0.6	<0.5	
3486676	Drill Core	83.7	0.5	<0.05	0.180	<1	0.8	<0.5	
3486677	Drill Core	138.8	0.3	0.07	<0.005	<1	0.5	0.6	
3486678	Drill Core	124.6	0.3	0.07	<0.005	<1	0.8	0.5	
3486679	Drill Core	72.0	0.6	0.06	<0.005	1	<0.5	<0.5	
3486680	Rock Pulp	177.7	2.9	<0.05	0.227	3	<0.5	1.0	
3486681	Drill Core	57.3	0.6	0.06	<0.005	<1	0.6	<0.5	
3486682	Drill Core	45.4	1.1	<0.05	<0.005	<1	1.0	<0.5	
3486683	Drill Core	44.0	1.2	<0.05	<0.005	<1	0.7	<0.5	
3486684	Drill Core	40.1	0.6	<0.05	<0.005	<1	0.9	<0.5	
3486685	Drill Core	111.9	0.5	<0.05	0.006	3	0.9	0.6	
3486686	Drill Core	73.0	0.9	0.06	<0.005	<1	0.8	<0.5	
3486687	Drill Core	75.4	0.8	0.07	0.009	<1	0.9	<0.5	
3486688	Drill Core	115.9	0.9	<0.05	<0.005	<1	0.6	0.6	
3486689	Drill Core	133.9	0.9	0.07	<0.005	<1	<0.5	0.7	
3486690	Rock	0.5	<0.1	<0.05	<0.005	<1	2.2	<0.5	
3486691	Drill Core	112.5	0.6	<0.05	0.006	<1	<0.5	0.5	
3486692	Drill Core	143.1	0.8	<0.05	0.014	1	<0.5	0.6	
3486693	Drill Core	147.8	1.2	0.05	<0.005	<1	0.5	0.7	
3486694	Drill Core	152.6	0.7	<0.05	0.012	<1	<0.5	0.7	
3486695	Drill Core	108.9	0.7	<0.05	0.050	<1	<0.5	<0.5	
3486696	Drill Core	167.6	0.4	<0.05	0.006	<1	<0.5	0.8	
3486697	Drill Core	118.3	0.3	<0.05	0.013	2	<0.5	0.6	
3486698	Drill Core	128.3	0.4	0.05	<0.005	<1	<0.5	0.9	
3486699	Drill Core	164.2	0.3	<0.05	<0.005	<1	<0.5	0.8	
3486700	Rock Pulp	52.4	1.1	0.15	0.146	3	<0.5	<0.5	1.34
3486701	Drill Core	15.0	<0.1	<0.05	0.016	2	<0.5	<0.5	
3486702	Drill Core	65.0	0.3	<0.05	0.023	2	<0.5	<0.5	
3486703	Drill Core	30.8	0.1	<0.05	0.009	4	<0.5	<0.5	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486704	Drill Core	2.63	0.006	3.6	228.0	2145.0	1125	3.5	2.2	15.0	1461	3.87	5	2.1	0.6	590	33.4	0.5	13.3	282	4.55
3486705	Drill Core	3.16	0.006	6.4	155.8	347.6	183	0.8	2.4	16.5	1560	3.90	9	2.1	0.7	674	3.7	0.5	2.0	217	5.60
3486706	Drill Core	4.24	<0.005	0.7	190.3	28.4	134	0.2	3.5	23.6	1779	5.53	3	0.7	0.9	764	0.8	0.4	<0.1	294	5.65
3486707	Drill Core	4.66	<0.005	0.6	170.7	27.9	104	0.2	4.1	24.1	1724	5.50	3	0.6	0.8	721	0.3	0.7	<0.1	265	5.03
3486708	Drill Core	5.02	<0.005	0.8	196.1	25.3	130	0.2	4.2	23.7	1856	5.43	2	0.6	0.8	803	0.8	0.8	<0.1	266	5.20
3486709	Drill Core	4.75	0.008	3.6	165.0	345.9	137	0.7	3.0	15.2	952	3.74	6	0.7	0.4	626	2.1	0.5	2.0	180	3.41
3486710	Rock	1.31	<0.005	<0.1	1.8	0.7	3	<0.1	<0.1	1.1	125	0.11	2	<0.1	<0.1	74	<0.1	<0.1	<0.1	1	36.86
3486711	Drill Core	2.63	<0.005	0.9	161.4	13.7	101	0.2	4.1	22.4	1597	5.37	3	0.6	0.8	558	0.2	0.4	<0.1	212	4.59
3486712	Drill Core	5.32	0.006	1.0	166.2	15.7	143	0.2	4.3	23.0	1561	5.62	6	0.8	0.8	788	1.1	0.5	<0.1	262	5.19
3486713	Drill Core	3.12	<0.005	1.3	155.0	9.8	96	0.2	4.8	24.9	1601	6.06	4	0.5	0.9	1093	0.2	0.6	<0.1	259	4.90
3486714	Drill Core	3.10	<0.005	0.9	168.3	8.3	95	0.2	4.6	24.3	1440	5.71	6	0.6	0.9	883	0.1	0.6	<0.1	232	5.03
3486715	Core DUP		<0.005	1.0	165.1	8.2	94	0.2	4.4	23.4	1420	5.63	6	0.7	1.0	867	0.2	0.6	<0.1	226	4.92
3486716	Drill Core	2.19	0.005	7.1	150.0	8.7	83	0.2	3.9	21.5	1373	5.26	5	0.5	0.7	881	0.1	0.5	<0.1	207	4.90
3486717	Drill Core	4.36	0.012	0.8	184.0	10.2	91	0.2	4.2	23.2	1480	5.69	6	0.6	0.8	934	0.1	0.6	<0.1	232	5.15
3486718	Drill Core	4.36	0.006	1.3	209.5	185.0	168	0.6	4.3	22.2	1461	5.35	7	1.0	0.9	687	1.9	0.5	0.9	285	4.87
3486719	Drill Core	4.41	<0.005	2.7	118.2	7.6	88	0.1	4.3	21.2	1384	5.32	6	0.6	1.2	1071	0.2	1.0	<0.1	199	4.85
3486720	Rock Pulp	0.13	0.670	347.7	5184.4	19.0	74	1.4	38.3	17.2	557	4.79	61	4.0	14.4	340	0.1	2.9	1.2	120	2.63
3486721	Drill Core	4.12	<0.005	2.1	139.3	11.5	85	0.2	4.3	21.1	1427	5.26	6	0.7	1.2	1069	0.2	0.7	<0.1	220	4.84
3486722	Drill Core	3.76	0.144	4.2	141.4	9.1	86	0.2	4.3	21.4	1423	5.28	4	0.7	1.1	987	0.1	0.7	<0.1	224	4.81
3486723	Drill Core	4.10	0.005	1.3	125.0	8.4	93	0.1	4.2	20.3	1393	5.20	5	0.6	1.1	1039	0.6	0.9	<0.1	201	4.79
3486724	Drill Core	2.18	0.006	1.1	118.5	33.9	80	0.2	3.5	17.0	1234	4.54	5	0.7	1.0	952	0.1	0.7	0.2	188	4.59
3486725	Drill Core	3.76	0.005	2.0	138.6	11.4	80	0.1	3.7	18.1	1355	4.72	4	0.6	1.0	849	0.2	0.6	<0.1	198	4.06
3486726	Drill Core	3.21	0.005	3.6	165.9	14.2	102	0.2	14.9	21.1	1352	5.23	3	0.9	1.1	569	0.3	0.4	<0.1	223	5.18
3486727	Drill Core	3.98	<0.005	0.9	180.5	11.3	103	0.1	8.1	21.1	1464	5.33	4	0.5	0.8	836	0.1	0.9	<0.1	219	4.50
3486728	Drill Core	4.56	<0.005	2.0	141.7	64.6	108	0.2	3.4	17.0	1108	4.45	5	1.0	0.8	756	0.6	0.9	0.3	172	3.87
3486729	Drill Core	2.72	<0.005	1.3	143.8	7.1	80	0.1	3.7	19.4	1346	5.02	5	0.5	0.9	1051	<0.1	1.2	<0.1	180	4.15
3486730	Rock	1.53	0.005	<0.1	1.6	0.3	3	<0.1	<0.1	1.0	144	0.11	<1	<0.1	<0.1	72	<0.1	<0.1	<0.1	1	34.49
3486731	Drill Core	2.88	0.005	1.6	163.6	8.3	84	0.1	3.5	17.9	1362	4.87	3	0.7	1.0	851	0.2	0.7	<0.1	176	4.72
3486732	Drill Core	2.50	0.009	0.7	143.7	28.5	99	0.2	3.9	18.0	1129	4.55	3	0.7	0.9	3010	0.2	0.6	<0.1	169	4.99
3486733	Drill Core	2.14	<0.005	1.4	76.0	31.4	111	0.2	48.0	28.9	1346	5.89	2	0.4	1.0	3355	0.3	0.7	0.1	243	6.38

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Project: MAX
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CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486704	Drill Core	0.197	8.1	3	1.01	264	0.216	5.25	0.945	4.77	0.4	8.7	17	0.8	11.7	6.4	0.1	4	7	30.2	2.1
3486705	Drill Core	0.218	7.9	2	1.16	141	0.245	5.45	0.893	5.83	0.6	11.2	17	0.6	12.6	6.7	0.1	4	7	27.3	2.9
3486706	Drill Core	0.335	11.4	1	1.71	148	0.384	8.62	1.139	6.24	0.3	10.9	25	0.4	17.2	4.4	0.2	2	10	62.8	2.0
3486707	Drill Core	0.290	10.4	2	1.64	365	0.333	8.28	1.917	5.99	0.8	9.4	20	0.4	14.0	3.3	0.4	2	11	35.3	1.6
3486708	Drill Core	0.292	10.2	2	1.55	396	0.303	8.68	1.934	6.26	0.4	10.2	19	0.5	13.0	3.1	0.3	2	10	41.2	1.4
3486709	Drill Core	0.184	6.2	2	1.21	81	0.210	5.98	0.678	5.30	0.2	7.4	12	0.5	8.8	2.3	0.1	3	6	38.3	2.0
3486710	Rock	0.006	1.0	<1	2.42	12	0.005	0.06	0.028	0.01	<0.1	1.1	<1	<0.1	1.7	<0.1	<0.1	<1	<1	1.0	<0.1
3486711	Drill Core	0.262	9.1	2	1.77	668	0.396	8.51	2.128	5.77	0.3	14.2	17	0.4	12.7	3.4	0.2	2	10	50.3	0.7
3486712	Drill Core	0.277	10.8	2	1.80	204	0.387	8.51	1.714	6.12	0.4	11.9	20	0.4	13.9	3.9	0.2	2	11	58.8	1.1
3486713	Drill Core	0.310	11.8	2	1.88	2408	0.440	8.81	1.986	5.25	0.2	13.8	24	0.4	15.3	3.8	0.3	1	12	53.1	0.4
3486714	Drill Core	0.303	11.2	2	1.77	783	0.422	8.86	2.133	5.46	0.4	14.2	21	0.4	14.5	3.9	0.3	1	11	57.5	0.7
3486715	Core DUP	0.295	10.8	2	1.75	886	0.417	8.71	2.101	5.49	0.4	14.2	20	0.4	14.0	3.8	0.3	1	11	56.0	0.7
3486716	Drill Core	0.267	8.2	3	1.58	845	0.386	8.77	2.242	4.16	0.8	13.0	16	0.4	11.7	3.5	0.3	<1	9	55.2	0.7
3486717	Drill Core	0.295	10.2	2	1.78	268	0.431	9.10	1.928	5.56	0.3	14.1	19	0.5	13.6	4.1	0.3	1	10	57.1	1.2
3486718	Drill Core	0.290	10.2	3	1.82	103	0.381	8.68	1.333	6.93	0.4	13.4	19	0.6	13.9	5.6	0.3	3	10	69.0	1.7
3486719	Drill Core	0.273	9.9	3	1.59	649	0.382	8.96	2.676	4.16	0.7	17.8	19	0.5	13.3	5.3	0.3	1	9	41.1	0.7
3486720	Rock Pulp	0.099	30.3	68	1.43	545	0.507	7.47	2.037	3.30	3.8	79.9	61	3.0	19.1	17.4	1.5	3	11	29.1	0.7
3486721	Drill Core	0.265	9.8	3	1.61	714	0.402	9.49	2.234	5.34	0.6	18.7	18	0.5	13.1	4.9	0.3	2	10	40.2	0.7
3486722	Drill Core	0.262	9.9	3	1.60	488	0.417	9.37	2.257	5.28	1.1	18.2	19	0.5	13.2	5.3	0.3	2	10	41.6	0.7
3486723	Drill Core	0.246	8.9	3	1.48	805	0.397	9.37	2.500	4.90	0.6	15.7	17	0.5	12.0	5.1	0.3	1	9	36.2	0.6
3486724	Drill Core	0.225	8.3	2	1.29	483	0.336	9.52	1.853	6.50	0.5	12.4	16	0.5	11.2	5.0	0.3	2	8	45.9	0.9
3486725	Drill Core	0.241	8.7	3	1.36	2453	0.338	8.94	2.612	5.11	0.6	14.6	16	0.5	11.4	4.8	0.3	1	8	33.4	0.4
3486726	Drill Core	0.213	9.4	28	2.04	378	0.370	8.52	2.105	5.93	0.8	12.8	17	0.4	10.5	3.9	0.2	2	15	31.0	0.7
3486727	Drill Core	0.264	8.5	13	1.72	1536	0.424	9.16	2.332	5.26	0.6	13.1	16	0.4	11.1	3.9	0.2	2	11	29.9	0.4
3486728	Drill Core	0.232	8.4	3	1.28	586	0.384	8.19	2.263	4.64	0.4	12.3	15	0.4	10.7	3.8	0.2	1	8	28.3	0.5
3486729	Drill Core	0.266	9.4	2	1.46	2166	0.452	9.73	2.699	5.03	0.5	14.9	17	0.4	12.2	4.3	0.3	<1	8	33.5	0.4
3486730	Rock	0.008	0.9	<1	2.55	11	0.006	0.07	0.031	0.02	<0.1	1.2	<1	<0.1	1.6	<0.1	<0.1	<1	<1	1.0	<0.1
3486731	Drill Core	0.257	9.1	2	1.40	974	0.405	9.09	2.592	5.29	2.5	16.6	17	0.4	12.1	4.3	0.3	1	8	33.8	0.5
3486732	Drill Core	0.224	8.4	3	1.36	244	0.355	8.46	2.840	4.92	2.5	14.6	15	0.4	10.9	4.1	0.3	1	8	25.5	1.0
3486733	Drill Core	0.177	9.9	92	3.16	1713	0.439	7.08	2.694	4.01	1.4	28.2	17	0.7	12.1	7.1	0.4	2	24	29.1	0.5

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486704	Drill Core	91.1	0.3	<0.05	0.008	9	<0.5	0.6	
3486705	Drill Core	95.7	0.3	<0.05	0.018	1	<0.5	<0.5	
3486706	Drill Core	132.4	0.4	<0.05	<0.005	<1	<0.5	0.8	
3486707	Drill Core	127.0	0.3	<0.05	<0.005	2	<0.5	0.7	
3486708	Drill Core	132.9	0.4	<0.05	<0.005	2	<0.5	0.6	
3486709	Drill Core	92.6	0.2	<0.05	0.008	3	<0.5	0.5	
3486710	Rock	0.3	<0.1	<0.05	<0.005	2	<0.5	<0.5	
3486711	Drill Core	121.4	0.5	<0.05	<0.005	2	<0.5	0.6	
3486712	Drill Core	128.1	0.4	<0.05	<0.005	2	<0.5	0.6	
3486713	Drill Core	107.2	0.5	<0.05	<0.005	1	<0.5	0.5	
3486714	Drill Core	117.0	0.5	<0.05	<0.005	2	<0.5	0.6	
3486715	Core DUP	112.6	0.5	<0.05	<0.005	2	<0.5	0.6	
3486716	Drill Core	71.9	0.5	<0.05	0.006	2	<0.5	0.5	
3486717	Drill Core	105.3	0.5	<0.05	<0.005	2	<0.5	0.5	
3486718	Drill Core	147.6	0.5	<0.05	<0.005	3	<0.5	0.7	
3486719	Drill Core	67.5	0.6	<0.05	<0.005	2	<0.5	<0.5	
3486720	Rock Pulp	165.3	2.6	0.08	0.238	4	<0.5	1.0	
3486721	Drill Core	89.6	0.6	<0.05	<0.005	2	<0.5	<0.5	
3486722	Drill Core	90.4	0.7	<0.05	<0.005	2	<0.5	<0.5	
3486723	Drill Core	72.7	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486724	Drill Core	94.4	0.4	<0.05	<0.005	2	<0.5	<0.5	
3486725	Drill Core	79.2	0.5	<0.05	<0.005	1	<0.5	<0.5	
3486726	Drill Core	125.5	0.4	<0.05	0.008	2	<0.5	0.6	
3486727	Drill Core	84.2	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486728	Drill Core	77.7	0.4	<0.05	<0.005	2	<0.5	<0.5	
3486729	Drill Core	81.2	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486730	Rock	0.5	<0.1	<0.05	<0.005	1	<0.5	<0.5	
3486731	Drill Core	89.0	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486732	Drill Core	71.5	0.5	<0.05	<0.005	2	0.6	<0.5	
3486733	Drill Core	160.5	1.0	<0.05	<0.005	1	0.7	0.8	

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
3486734	Drill Core	4.05	0.009	2.7	175.5	368.3	661	0.5	10.0	19.9	1182	4.90	4	0.5	0.8	729	9.6	0.6	0.5	215	4.73
3486735	Drill Core	2.63	0.006	0.8	149.6	88.8	295	0.2	4.4	19.7	1528	4.95	5	0.6	1.0	743	1.4	0.7	<0.1	218	4.13
3486736	Drill Core	3.05	0.006	1.3	152.7	13.1	106	0.2	3.9	18.7	1497	4.81	6	0.5	0.8	1059	0.2	1.1	<0.1	209	4.67
3486737	Drill Core	4.36	0.006	0.9	145.8	15.2	87	0.2	3.7	18.5	1407	4.95	5	0.7	0.8	1107	0.2	1.0	<0.1	212	4.89
3486738	Drill Core	4.50	0.007	1.5	144.8	101.6	101	0.3	3.2	16.5	1277	4.55	6	0.6	0.9	1231	1.0	1.2	0.3	198	4.99
3486739	Drill Core	4.55	0.007	1.4	147.6	12.8	86	0.2	3.2	15.8	1204	4.41	6	0.7	0.8	921	0.3	0.9	<0.1	181	4.84
3486740	Rock Pulp	0.13	0.220	99.0	2762.0	18.5	82	0.5	67.5	14.7	578	4.40	18	4.1	15.0	303	0.1	1.9	0.6	127	2.66
3486741	Drill Core	4.70	0.007	0.9	148.3	11.8	76	0.2	3.3	17.3	1224	4.71	5	1.2	0.9	959	0.2	0.9	<0.1	193	4.85
3486742	Drill Core	4.26	0.006	1.3	127.1	61.7	81	0.3	2.5	16.1	1171	4.36	6	0.8	1.6	1229	0.4	1.3	0.4	181	4.93
3486743	Drill Core	2.31	0.006	0.2	141.9	4.8	93	0.1	37.8	32.3	1546	6.49	4	1.2	2.1	522	0.2	0.6	<0.1	270	7.46
3486744	Drill Core	1.77	0.007	1.1	127.4	23.3	84	0.2	2.7	15.0	930	3.74	7	0.6	1.1	712	0.2	0.9	<0.1	138	4.23
3486745	Drill Core	2.42	0.006	<0.1	165.0	10.1	108	0.2	34.5	31.4	1584	6.22	4	1.4	2.1	271	0.3	0.5	<0.1	265	6.64
3486746	Drill Core	3.34	<0.005	1.2	132.6	305.2	72	1.2	2.5	14.1	1045	3.81	5	0.7	1.2	1154	0.5	1.5	2.0	145	4.72
3486747	Drill Core	4.46	<0.005	1.7	124.5	18.4	76	0.1	2.3	15.1	1100	3.89	4	0.5	1.1	1045	0.5	1.1	<0.1	142	4.49
3486748	Drill Core	4.46	<0.005	1.9	95.7	10.5	67	0.1	2.4	15.5	1079	3.98	5	0.5	1.1	1177	0.2	1.6	<0.1	149	4.88
3486749	Drill Core	4.54	0.005	2.1	124.5	10.1	72	0.2	2.5	15.2	1200	4.15	4	0.7	1.4	986	0.1	0.9	<0.1	155	4.77
3486750	Rock	1.49	<0.005	<0.1	0.6	0.4	2	<0.1	0.2	<0.2	130	0.10	2	<0.1	<0.1	72	<0.1	<0.1	<0.1	<1	34.47
3486751	Drill Core	4.37	0.006	1.1	153.9	43.4	101	0.2	2.2	15.2	1263	4.12	4	0.7	1.3	1155	0.9	0.9	0.1	152	4.70

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
3486734	Drill Core	0.226	7.9	16	1.69	134	0.349	8.50	2.137	6.07	1.2	13.5	15	0.5	11.1	4.8	0.3	1	10	26.1	1.4
3486735	Drill Core	0.274	9.8	4	1.63	171	0.397	9.00	1.600	7.02	0.6	13.1	19	0.5	13.2	4.7	0.3	2	9	45.2	1.2
3486736	Drill Core	0.252	8.3	3	1.44	362	0.363	9.35	1.810	6.49	0.5	12.7	16	0.5	11.3	4.6	0.3	2	8	47.6	0.8
3486737	Drill Core	0.256	8.7	3	1.40	180	0.363	9.36	2.031	5.77	0.4	14.8	17	0.5	12.0	5.4	0.3	2	8	41.4	1.4
3486738	Drill Core	0.241	8.2	3	1.24	258	0.350	9.58	2.205	5.34	0.3	13.8	16	0.5	11.0	5.0	0.3	1	7	39.9	1.2
3486739	Drill Core	0.240	7.4	3	1.20	296	0.326	9.71	1.960	5.99	0.3	13.3	14	0.5	10.4	5.1	0.3	2	7	48.0	1.3
3486740	Rock Pulp	0.091	33.4	84	1.52	1005	0.498	7.58	2.001	3.39	4.6	67.8	66	2.7	19.4	15.4	1.3	3	12	31.5	0.3
3486741	Drill Core	0.247	8.7	3	1.28	266	0.359	9.49	1.988	5.67	0.3	13.9	16	0.5	11.6	5.8	0.3	2	7	39.7	1.3
3486742	Drill Core	0.219	7.7	2	1.13	210	0.313	9.35	2.094	5.40	0.4	12.4	18	0.6	13.6	6.6	0.3	1	7	40.5	1.5
3486743	Drill Core	0.179	9.2	86	3.46	406	0.418	6.75	2.884	3.67	0.8	27.9	20	0.5	13.7	5.5	0.2	4	34	57.7	1.8
3486744	Drill Core	0.213	6.6	2	1.00	122	0.268	9.03	1.906	5.85	1.7	13.5	17	0.3	12.0	5.0	0.3	1	6	54.6	1.5
3486745	Drill Core	0.172	9.4	71	3.23	314	0.379	6.88	2.888	2.29	0.3	21.7	20	0.5	12.6	4.4	0.2	3	30	51.4	1.8
3486746	Drill Core	0.216	7.0	2	0.88	734	0.293	9.45	2.839	4.76	0.7	15.3	17	0.3	11.7	6.1	0.3	2	6	37.9	0.7
3486747	Drill Core	0.216	8.1	1	0.94	2371	0.306	9.66	3.001	4.14	0.7	15.0	18	0.3	11.9	5.8	0.3	<1	6	33.9	0.4
3486748	Drill Core	0.223	7.4	1	0.87	1350	0.306	9.31	3.156	3.71	0.6	13.8	18	0.2	11.7	5.7	0.3	<1	6	29.8	0.7
3486749	Drill Core	0.230	8.5	1	1.01	1087	0.322	9.72	2.964	3.59	0.6	16.1	20	0.3	13.4	6.5	0.3	<1	6	35.1	0.7
3486750	Rock	0.006	1.1	<1	2.90	12	0.004	0.06	0.028	0.01	<0.1	1.3	<1	<0.1	2.0	<0.1	<0.1	<1	<1	1.1	<0.1
3486751	Drill Core	0.230	8.1	1	0.97	1526	0.323	9.37	2.888	4.57	0.9	17.5	18	0.3	12.6	5.5	0.3	2	6	35.3	0.7

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Project: MAX
Report Date: July 19, 2020

CERTIFICATE OF ANALYSIS VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
3486734	Drill Core	84.4	0.5	<0.05	<0.005	3	<0.5	<0.5	
3486735	Drill Core	102.8	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486736	Drill Core	96.4	0.4	<0.05	<0.005	2	<0.5	<0.5	
3486737	Drill Core	93.4	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486738	Drill Core	83.8	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486739	Drill Core	96.5	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486740	Rock Pulp	184.1	2.3	0.06	<0.005	3	<0.5	1.0	
3486741	Drill Core	96.1	0.5	<0.05	<0.005	2	<0.5	<0.5	
3486742	Drill Core	84.9	0.5	0.06	0.006	2	<0.5	<0.5	
3486743	Drill Core	174.2	1.0	0.05	0.006	<1	0.7	1.0	
3486744	Drill Core	99.2	0.4	<0.05	<0.005	<1	<0.5	0.5	
3486745	Drill Core	97.3	0.8	<0.05	<0.005	<1	0.6	1.0	
3486746	Drill Core	66.3	0.6	<0.05	<0.005	1	<0.5	<0.5	
3486747	Drill Core	65.0	0.4	<0.05	<0.005	<1	<0.5	<0.5	
3486748	Drill Core	51.7	0.5	<0.05	<0.005	<1	<0.5	<0.5	
3486749	Drill Core	58.9	0.6	<0.05	<0.005	<1	<0.5	<0.5	
3486750	Rock	0.4	<0.1	<0.05	<0.005	<1	2.5	<0.5	
3486751	Drill Core	71.1	0.6	<0.05	<0.005	<1	<0.5	<0.5	

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001280.1

	Method	WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
Pulp Duplicates																					
3486691	Drill Core	4.95	0.005	3.0	236.2	24.3	101	0.3	2.8	20.3	1410	5.44	4	0.8	1.3	658	0.3	0.6	0.1	216	4.36
REP 3486691	QC			2.7	242.0	24.1	101	0.3	2.8	19.1	1383	5.46	4	0.8	1.2	664	0.3	0.7	<0.1	219	4.41
3486696	Drill Core	3.00	0.010	4.6	356.4	38.6	177	0.4	5.5	24.8	1912	6.17	8	1.0	1.1	856	2.0	1.4	0.2	294	5.01
REP 3486696	QC		0.008																		
3486700	Rock Pulp	0.11	1.376	258.0	>10000	22.5	100	2.5	23.4	12.4	754	5.10	6	1.1	4.1	482	0.8	2.8	0.3	91	2.06
REP 3486700	QC																				
3486725	Drill Core	3.76	0.005	2.0	138.6	11.4	80	0.1	3.7	18.1	1355	4.72	4	0.6	1.0	849	0.2	0.6	<0.1	198	4.06
REP 3486725	QC			2.0	141.8	11.5	82	0.2	3.9	18.4	1392	4.78	4	0.6	0.9	862	0.2	0.6	<0.1	195	4.12
Core Reject Duplicates																					
3486693	Drill Core	5.33	<0.005	1.1	267.1	13.7	144	0.2	6.1	31.0	2264	8.05	3	1.3	1.9	644	0.3	0.8	<0.1	332	5.50
DUP 3486693	QC		<0.005	1.2	263.7	13.1	145	0.2	6.0	31.4	2262	7.96	3	1.2	1.9	658	0.2	1.0	<0.1	323	5.57
3486727	Drill Core	3.98	<0.005	0.9	180.5	11.3	103	0.1	8.1	21.1	1464	5.33	4	0.5	0.8	836	0.1	0.9	<0.1	219	4.50
DUP 3486727	QC		<0.005	1.0	180.8	11.1	104	0.1	8.2	21.2	1452	5.39	4	0.5	0.9	848	0.2	0.8	<0.1	220	4.57
Reference Materials																					
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard			2.6	32.1	21.0	47	0.1	50.2	7.6	493	6.46	10	2.4	13.1	45	<0.1	0.5	0.3	155	0.29
STD OREAS25A-4A	Standard			2.4	33.0	24.2	42	<0.1	46.5	7.3	506	6.64	10	2.7	16.2	50	<0.1	0.5	0.3	162	0.29
STD OREAS25A-4A	Standard			2.4	33.4	24.5	46	<0.1	45.4	7.8	496	6.70	11	2.9	16.6	52	<0.1	0.6	0.3	159	0.30
STD OREAS45H	Standard			1.6	785.2	10.2	39	0.2	452.8	87.8	422	20.23	17	1.4	6.0	23	<0.1	0.5	0.1	283	0.14
STD OREAS45E	Standard			2.4	777.0	17.1	47	0.4	475.3	58.6	578	24.95	16	2.3	13.1	15	<0.1	0.8	0.3	337	0.06
STD OREAS45E	Standard			1.8	757.6	18.8	48	0.3	475.9	58.6	575	25.18	17	2.5	13.8	16	<0.1	1.0	0.4	331	0.06
STD OREAS97	Standard																				
STD OXB130	Standard		0.121																		
STD OXB130	Standard		0.127																		
STD OXB130	Standard		0.122																		
STD OXG141	Standard		0.939																		
STD OXG141	Standard		0.938																		
STD OXG141	Standard		0.912																		

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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
	Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S
	Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.001	0.1	1	0.01	1	0.001	0.01	0.001	0.01	0.1	0.1	1	0.1	0.1	0.1	0.1	1	1	0.1	0.1
Pulp Duplicates																					
3486691	Drill Core	0.222	9.6	2	1.48	268	0.396	8.40	2.004	6.56	0.7	15.8	20	0.6	15.4	6.2	0.3	3	9	50.4	1.5
REP 3486691	QC	0.234	9.5	2	1.47	283	0.399	8.19	1.977	6.48	0.9	16.2	21	0.7	15.7	6.3	0.3	2	9	48.9	1.5
3486696	Drill Core	0.305	11.8	2	1.67	124	0.351	8.45	1.207	7.43	0.6	12.4	25	0.6	18.3	3.7	0.2	4	12	45.2	2.7
REP 3486696	QC																				
3486700	Rock Pulp	0.075	13.5	39	0.92	207	0.287	7.56	2.404	1.94	1.9	32.1	28	2.6	13.4	6.2	0.4	1	10	16.5	1.2
REP 3486700	QC																				
3486725	Drill Core	0.241	8.7	3	1.36	2453	0.338	8.94	2.612	5.11	0.6	14.6	16	0.5	11.4	4.8	0.3	1	8	33.4	0.4
REP 3486725	QC	0.244	8.3	3	1.38	2290	0.344	9.01	2.695	5.14	0.6	14.0	16	0.5	11.3	4.9	0.3	1	8	33.4	0.4
Core Reject Duplicates																					
3486693	Drill Core	0.304	15.0	4	2.48	1059	0.608	7.74	1.767	5.76	0.6	33.3	31	0.6	24.1	8.1	0.4	3	17	54.4	1.1
DUP 3486693	QC	0.306	15.7	3	2.47	1013	0.606	7.55	1.761	5.73	0.6	28.9	32	0.7	23.8	8.1	0.4	3	16	53.9	1.1
3486727	Drill Core	0.264	8.5	13	1.72	1536	0.424	9.16	2.332	5.26	0.6	13.1	16	0.4	11.1	3.9	0.2	2	11	29.9	0.4
DUP 3486727	QC	0.270	8.8	13	1.74	1765	0.427	9.18	2.338	5.35	0.6	13.9	16	0.4	11.3	4.0	0.2	2	11	30.4	0.4
Reference Materials																					
STD CCU-1E	Standard																				
STD OREAS25A-4A	Standard	0.045	20.8	120	0.33	127	0.928	9.24	0.138	0.49	1.8	145.8	47	3.1	8.5	18.7	1.4	<1	12	35.5	<0.1
STD OREAS25A-4A	Standard	0.048	21.2	118	0.37	144	0.930	9.30	0.146	0.50	2.5	152.3	52	3.6	10.6	20.3	1.5	<1	13	36.3	<0.1
STD OREAS25A-4A	Standard	0.050	22.0	118	0.38	151	0.947	9.57	0.150	0.53	2.1	151.7	51	3.6	10.7	20.5	1.5	<1	13	37.5	<0.1
STD OREAS45H	Standard	0.020	11.7	677	0.24	325	0.917	8.54	0.093	0.21	0.9	121.4	20	1.6	10.6	14.2	0.9	1	56	12.4	<0.1
STD OREAS45E	Standard	0.034	10.6	1046	0.17	232	0.537	6.99	0.062	0.34	1.0	83.7	24	1.1	7.6	6.4	0.5	<1	93	7.7	<0.1
STD OREAS45E	Standard	0.034	11.2	1035	0.18	237	0.551	6.97	0.068	0.35	0.9	82.5	24	1.2	7.7	6.1	0.5	<1	94	6.7	<0.1
STD OREAS97	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXB130	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				
STD OXG141	Standard																				

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001280.1

	Method	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA404
	Analyte	Rb	Hf	In	Re	Se	Te	Tl	Cu
	Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.1	0.1	0.05	0.005	1	0.5	0.5	0.01
Pulp Duplicates									
3486691	Drill Core	112.5	0.6	<0.05	0.006	<1	<0.5	0.5	
REP 3486691	QC	106.5	0.5	<0.05	0.007	1	<0.5	0.6	
3486696	Drill Core	167.6	0.4	<0.05	0.006	<1	<0.5	0.8	
REP 3486696	QC								
3486700	Rock Pulp	52.4	1.1	0.15	0.146	3	<0.5	<0.5	1.34
REP 3486700	QC								1.31
3486725	Drill Core	79.2	0.5	<0.05	<0.005	1	<0.5	<0.5	
REP 3486725	QC	77.8	0.5	<0.05	<0.005	1	<0.5	<0.5	
Core Reject Duplicates									
3486693	Drill Core	147.8	1.2	0.05	<0.005	<1	0.5	0.7	
DUP 3486693	QC	148.5	0.9	<0.05	<0.005	<1	<0.5	0.8	
3486727	Drill Core	84.2	0.5	<0.05	<0.005	2	<0.5	<0.5	
DUP 3486727	QC	87.0	0.5	<0.05	<0.005	2	<0.5	<0.5	
Reference Materials									
STD CCU-1E	Standard								23.49
STD OREAS25A-4A	Standard	58.9	4.1	0.08	<0.005	3	<0.5	<0.5	
STD OREAS25A-4A	Standard	61.6	4.1	0.09	<0.005	2	<0.5	<0.5	
STD OREAS25A-4A	Standard	62.5	4.4	0.10	<0.005	2	<0.5	<0.5	
STD OREAS45H	Standard	23.3	3.4	0.08	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	21.6	3.0	0.12	<0.005	2	<0.5	<0.5	
STD OREAS45E	Standard	21.2	2.9	<0.05	<0.005	2	<0.5	<0.5	
STD OREAS97	Standard								6.33
STD OXB130	Standard								
STD OXB130	Standard								
STD OXB130	Standard								
STD OXG141	Standard								
STD OXG141	Standard								
STD OXG141	Standard								

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001280.1

		WGHT	FA430	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200	MA200
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.005	0.1	0.1	0.1	1	0.1	0.1	0.2	1	0.01	1	0.1	0.1	1	0.1	0.1	0.1	1	0.01
STD OXN155	Standard		7.285																		
STD OXN155	Standard		7.667																		
STD OXN155	Standard		8.157																		
STD OREAS45H Expected				1.55	767	11.9	39.7	0.147	423	88	380	19.52	16.9	1.68	7.26	27.1		0.63	0.17	263	0.135
STD OREAS25A-4A Expected				2.41	33.9	25.2	44.4		45.8	7.7	480	6.6	9.94	2.94	15.8	48.5		0.65	0.37	157	0.301
STD OREAS45E Expected				2.4	780	18.2	46.7	0.311	454	57	570	24.12	16.3	2.41	12.9	15.9	0.06	1	0.28	322	0.065
STD CCU-1E Expected																					
STD OREAS97 Expected																					
STD OXG141 Expected			0.93																		
STD OXN155 Expected			7.762																		
STD OXB130 Expected			0.125																		
BLK	Blank			<0.1	0.3	<0.1	<1	<0.1	<0.1	<0.2	2	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.1	0.2	<1	<0.1	<0.1	<0.2	1	<0.01	<1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank			<0.1	0.2	<0.1	<1	<0.1	<0.1	<0.2	<1	<0.01	<1	<0.1	<0.1	3	<0.1	<0.1	<0.1	<1	<0.01
BLK	Blank																				
BLK	Blank		<0.005																		
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
Prep Wash																					
ROCK-VAN	Prep Blank		0.006	2.3	2.1	2.7	27	<0.1	0.8	3.3	526	1.85	2	1.3	3.8	195	<0.1	0.2	<0.1	30	1.48
ROCK-VAN	Prep Blank		<0.005	2.3	1.8	2.4	25	<0.1	0.8	2.9	525	1.83	2	1.4	3.5	193	<0.1	0.2	<0.1	29	1.47

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Client: **Thompson Creek Metals**
299 Victoria Street, Suite 200
Prince George British Columbia V2L 5B8 Canada

Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001280.1

		MA200 P % 0.001	MA200 La ppm 0.1	MA200 Cr ppm 1	MA200 Mg % 0.01	MA200 Ba ppm 1	MA200 Ti % 0.001	MA200 Al % 0.01	MA200 Na % 0.001	MA200 K % 0.01	MA200 W ppm 0.1	MA200 Zr ppm 0.1	MA200 Ce ppm 1	MA200 Sn ppm 0.1	MA200 Y ppm 0.1	MA200 Nb ppm 0.1	MA200 Ta ppm 0.1	MA200 Be ppm 1	MA200 Sc ppm 1	MA200 Li ppm 0.1	MA200 S % 0.1
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OXN155	Standard																				
STD OREAS45H Expected		0.023	12.4	602	0.238	332	0.878	7.99	0.09	0.205	0.99	131	23.6	1.93	10.4	14.8	1.08	1.09	57	13.1	
STD OREAS25A-4A Expected		0.048	21.8	115	0.327	147	0.93	8.87	0.131	0.482	2	155	47.3	4.06	10.5	20.9	1.4	0.93	13.7	36.7	0.047
STD OREAS45E Expected		0.034	11	979	0.156	252	0.559	6.78	0.059	0.324	1.07	97	23.5	1.32	8.28	6.8	0.54		93	6.58	0.046
STD CCU-1E Expected																					
STD OREAS97 Expected																					
STD OXG141 Expected																					
STD OXN155 Expected																					
STD OXB130 Expected																					
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.004	<0.01	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	<1	<0.001	<0.01	0.002	0.01	<0.1	0.2	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank	<0.001	<0.1	<1	<0.01	1	<0.001	<0.01	0.002	0.02	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<0.1	<1	<1	<0.1	<0.1
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-VAN	Prep Blank	0.032	12.7	2	0.41	643	0.181	6.84	3.515	1.40	0.3	46.1	25	0.6	15.4	5.8	0.4	1	6	2.4	<0.1
ROCK-VAN	Prep Blank	0.032	13.6	2	0.41	649	0.177	6.84	3.492	1.40	0.2	45.3	26	0.7	15.4	5.7	0.4	<1	6	2.2	<0.1

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Project: MAX
Report Date: July 19, 2020

QUALITY CONTROL REPORT VAN20001280.1

		MA200 Rb ppm 0.1	MA200 Hf ppm 0.1	MA200 In ppm 0.05	MA200 Re ppm 0.005	MA200 Se ppm 1	MA200 Te ppm 0.5	MA200 Tl ppm 0.5	MA404 Cu % 0.01
STD OXN155	Standard								
STD OXN155	Standard								
STD OXN155	Standard								
STD OREAS45H Expected		22.5	3.6	0.1		2.02			
STD OREAS25A-4A Expected		61	4.14	0.09		2.4		0.35	
STD OREAS45E Expected		21.2	3.11	0.099		2.97	0.1	0.15	
STD CCU-1E Expected									22.88
STD OREAS97 Expected									6.31
STD OXG141 Expected									
STD OXN155 Expected									
STD OXB130 Expected									
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank	<0.1	<0.1	<0.05	<0.005	<1	<0.5	<0.5	
BLK	Blank								<0.01
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
BLK	Blank								
Prep Wash									
ROCK-VAN	Prep Blank	30.0	2.0	<0.05	<0.005	<1	<0.5	<0.5	
ROCK-VAN	Prep Blank	29.6	1.9	<0.05	<0.005	<1	<0.5	<0.5	

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

ANALYSIS REPORT BBM20-05178

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	19-Oct-2020
Submission Number	*BBY* MAX20_Core_14/ 246 Cores (1-76)	Date Analysed	22-Oct-2020 - 06-Nov-2020
		Date Completed	06-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05178

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
71	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. The findings report on the samples provided by the client and are not intended for commercial or contractual settlement puposes.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508001	5.27	57	7.07	922	6.13	6
3508002	4.63	61	7.82	602	7.37	8
3508003	4.51	88	8.25	594	7.79	6
3508004	4.58	112	8.39	619	7.61	4
3508005	4.44	40	8.56	643	7.51	47
3508006	3.75	60	8.61	626	7.28	4
3508007	5.80	33	8.86	618	7.21	5
3508008	4.57	52	8.70	717	6.89	4
3508009	4.91	38	8.76	842	7.13	4
3508010	1.47	9	0.08	12	>15.00	1
3508011	5.06	33	8.76	939	6.89	4
3508012	5.16	35	8.92	1203	6.84	5
3508013	4.72	61	8.93	1281	6.77	4
3508014	4.75	144	8.20	1311	6.71	3
3508015	-	140	9.00	1339	6.94	3
3508016	5.26	50	8.62	1185	6.58	3
3508017	4.98	60	8.70	1307	5.87	3
3508018	4.51	30	8.06	1306	6.23	2
3508019	4.85	39	8.85	1101	6.08	4
3508020	0.13	246	7.77	1004	2.58	70
3508021	4.70	31	8.69	1052	6.15	4
3508022	4.86	48	8.56	1034	6.95	4
3508023	7.91	45	8.24	789	6.99	3
3508024	4.93	51	8.76	833	6.71	4
3508025	4.47	46	8.70	991	6.63	4
3508026	5.02	44	8.50	1334	5.72	5
3508027	4.64	43	8.84	1267	6.06	4
3508028	3.83	54	8.88	1280	6.11	3
3508029	3.71	23	8.75	989	6.85	9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508030	1.45	<5	0.07	13	>15.00	<1
3508031	4.98	28	7.96	1087	5.91	163
3508032	4.83	16	8.06	821	6.25	119
3508033	4.74	38	8.26	1390	6.52	100
3508034	4.89	28	8.43	1549	5.95	78
3508035	4.67	40	8.30	1614	5.25	83
3508036	4.73	29	8.50	1612	5.34	81
3508037	5.60	39	7.25	1210	6.47	105
3508038	4.10	25	9.28	1674	4.64	5
3508039	4.71	12	9.60	1664	4.16	6
3508040	0.13	240	7.79	999	2.59	67
3508041	4.41	14	9.00	1633	4.00	6
3508042	4.70	25	8.98	1497	3.96	5
3508043	4.79	21	9.53	1598	4.00	4
3508044	5.05	13	9.26	1750	3.91	5
3508045	4.39	14	9.07	1621	4.22	4
3508046	4.21	17	9.42	1628	4.06	4
3508047	4.41	17	9.30	1657	3.72	4
3508048	3.67	14	9.07	1510	3.26	3
3508049	5.07	17	9.59	1690	3.91	8
3508050	1.36	<5	0.08	12	>15.00	2
3508051	4.92	7	9.12	1582	3.86	4
3508052	4.90	9	9.23	1718	3.87	5
3508053	4.09	10	9.54	1585	3.77	4
3508054	4.13	9	9.48	1696	3.91	5
3508055	-	<5	9.33	1668	3.82	4
3508056	3.10	9	9.46	1566	4.24	5
3508057	3.52	8	9.39	1812	3.81	9
3508058	4.67	7	9.38	1682	4.43	5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508059	4.13	11	8.14	782	6.61	77
3508060	0.13	224	7.75	989	2.55	75
3508061	3.38	5	7.62	916	5.89	125
3508062	3.76	<5	9.51	1370	5.46	37
3508063	4.96	<5	8.15	745	6.62	72
3508064	5.36	14	8.77	1754	3.45	9
3508065	4.49	18	8.04	633	5.59	51
3508066	4.77	21	8.29	660	6.29	49
3508067	5.54	<5	8.10	651	6.71	44
3508068	5.11	7	8.23	711	6.67	38
3508069	4.98	15	8.29	486	4.39	35
3508070	1.48	5	0.09	14	>15.00	2
3508071	4.58	21	7.45	734	4.83	27
3508072	3.57	9	7.53	811	5.87	61
3508073	3.33	50	6.16	839	6.52	37
3508074	5.06	19	7.75	1408	6.55	35
3508075	5.01	15	7.67	1072	6.89	50
3508076	4.74	22	7.69	1263	5.41	42
*Dup 3508039	-	17	9.94	1724	4.18	5
*Rep 3508026	-	57	-	-	-	-
*Std SL76	-	6170	-	-	-	-
*Blk BLANK	-	8	-	-	-	-
*Rep 3508046	-	12	-	-	-	-
*Rep 3508063	-	9	-	-	-	-
*Blk BLANK	-	-	<0.01	<1	0.01	<1
*Rep 3508010	-	-	0.08	12	>15.00	1
*Std OREAS 520	-	-	5.74	1439	3.88	36
*Std OREAS 601	-	-	6.28	2413	1.26	43
*Std OREAS 601	-	-	6.28	1785	1.25	36

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std OREAS 520	-	-	5.62	1215	3.85	35
*Rep 3508041	-	-	9.60	1686	4.02	5
*Blk BLANK	-	-	<0.01	2	<0.01	<1
*Rep 3508076	-	-	7.66	1215	5.21	39
*Std OREAS 601	-	-	6.35	2464	1.27	33
*Std OREAS 520	-	-	5.87	2778	3.88	35
*Rep 3508076	-	23	-	-	-	-
*Std OXN117	-	7470	-	-	-	-
*Blk BLANK	-	9	-	-	-	-

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508001	703	8.10	1.77	18	2.97	1717
3508002	368	8.97	1.49	17	3.26	1845
3508003	498	9.43	1.44	18	3.54	1796
3508004	494	8.63	1.58	18	3.40	1772
3508005	397	9.22	1.61	19	3.40	1887
3508006	644	9.10	1.69	21	3.34	2027
3508007	358	8.02	1.35	19	3.05	1937
3508008	423	8.03	1.52	19	3.02	1757
3508009	430	7.83	1.42	21	3.07	1738
3508010	2.0	0.17	0.01	1	2.44	161
3508011	310	7.86	1.68	20	3.04	1691
3508012	300	7.80	1.76	18	2.96	1659
3508013	365	7.28	2.09	19	2.72	1568
3508014	561	7.60	1.88	20	2.73	1587

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508015	548	7.55	1.95	20	2.78	1586
3508016	248	7.67	1.62	20	2.84	1581
3508017	382	7.54	2.26	21	2.78	1579
3508018	358	7.12	2.76	21	2.42	1544
3508019	328	7.45	2.09	20	2.64	1454
3508020	2692	4.31	3.45	37	1.52	527
3508021	290	7.07	1.95	18	2.49	1522
3508022	349	7.70	2.05	23	2.82	1665
3508023	473	7.82	1.52	24	2.82	1492
3508024	340	7.92	1.75	25	3.04	1520
3508025	394	7.92	2.20	25	2.87	1565
3508026	307	6.59	2.72	17	2.24	1396
3508027	240	7.00	2.52	18	2.47	1433
3508028	318	7.10	2.46	17	2.51	1432
3508029	207	7.29	2.30	19	2.53	1545
3508030	1.2	0.16	0.01	<1	2.08	169
3508031	341	7.41	2.91	34	4.65	1750
3508032	351	6.67	2.09	26	3.84	1630
3508033	340	7.01	2.98	23	3.24	1382
3508034	269	6.66	3.31	21	2.97	1259
3508035	312	6.65	3.21	21	2.88	1125
3508036	326	6.72	3.22	24	2.95	1248
3508037	310	7.12	2.55	22	3.20	1378
3508038	220	4.61	3.02	11	1.60	992
3508039	181	4.52	2.90	13	1.47	949
3508040	2733	4.28	2.80	36	1.53	524
3508041	178	4.57	3.09	13	1.41	951
3508042	221	4.30	2.81	14	1.41	918
3508043	208	4.55	3.05	13	1.42	954

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508044	148	4.61	3.13	14	1.42	1037
3508045	152	4.49	3.25	16	1.38	1045
3508046	197	4.48	3.16	15	1.39	1037
3508047	141	4.46	3.50	17	1.38	1009
3508048	209	4.33	3.90	16	1.40	959
3508049	202	4.53	3.29	13	1.44	879
3508050	0.9	0.17	0.01	1	2.23	160
3508051	144	4.40	2.99	10	1.35	878
3508052	258	4.72	3.16	14	1.45	845
3508053	222	4.61	2.94	13	1.45	802
3508054	157	4.92	3.40	12	1.41	841
3508055	149	4.82	3.34	11	1.40	835
3508056	119	4.89	3.08	10	1.39	946
3508057	212	4.86	3.53	13	1.44	1013
3508058	204	5.00	3.13	14	1.51	1010
3508059	313	7.17	1.53	24	3.42	1391
3508060	2690	4.38	3.45	37	1.52	520
3508061	218	6.93	2.60	30	4.17	1498
3508062	209	5.80	2.79	20	1.93	1138
3508063	212	7.18	1.72	27	3.36	1468
3508064	214	5.63	4.01	16	1.48	1005
3508065	189	7.46	2.09	30	3.12	1596
3508066	222	7.63	1.75	33	3.25	1500
3508067	236	7.82	1.50	31	3.36	1538
3508068	287	7.68	2.06	36	3.32	1487
3508069	232	6.39	3.35	38	2.71	1545
3508070	1.3	0.18	0.01	1	2.16	183
3508071	165	5.89	3.91	19	2.42	1828
3508072	222	6.17	3.66	31	3.23	2099

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508073	136	5.77	4.84	23	2.51	2307
3508074	191	6.26	3.09	35	2.88	1835
3508075	169	6.60	2.32	35	3.26	1805
3508076	191	6.62	4.04	35	3.02	1819
*Dup 3508039	173	4.82	3.49	14	1.51	983
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Rep 3508010	1.1	0.17	0.01	<1	2.46	162
*Std OREAS 520	2858	14.86	3.62	18	1.16	2250
*Std OREAS 601	979	2.44	2.19	22	0.38	462
*Std OREAS 601	963	2.52	2.18	22	0.38	464
*Std OREAS 520	2885	>15.00	3.51	19	1.16	2234
*Rep 3508041	178	4.48	2.82	13	1.48	975
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Rep 3508076	198	6.53	4.01	36	3.00	1796
*Std OREAS 601	975	2.42	2.25	22	0.37	478
*Std OREAS 520	2928	>15.00	3.70	19	1.18	2285

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508001	2.19	12	0.15	0.32	761	0.57
3508002	1.88	13	0.16	0.17	890	0.63
3508003	1.65	13	0.35	0.29	1066	0.66
3508004	1.73	12	0.32	0.24	1034	0.61
3508005	1.83	36	0.26	0.16	1016	0.68
3508006	1.89	12	0.23	0.85	942	0.68
3508007	2.38	12	0.18	0.51	1049	0.59

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508008	2.34	11	0.18	0.67	878	0.60
3508009	2.32	12	0.17	0.94	862	0.58
3508010	0.04	<1	<0.01	<0.01	75.2	<0.01
3508011	2.39	12	0.17	0.37	860	0.61
3508012	2.39	11	0.18	0.43	921	0.63
3508013	2.53	10	0.16	0.47	855	0.53
3508014	2.35	10	0.16	0.33	827	0.54
3508015	2.47	10	0.16	0.32	864	0.54
3508016	2.58	10	0.16	0.22	911	0.53
3508017	2.62	11	0.15	0.95	743	0.53
3508018	2.53	10	0.14	1.23	689	0.48
3508019	2.75	10	0.14	0.37	754	0.52
3508020	2.06	56	0.10	0.37	326	0.46
3508021	2.72	9	0.13	0.39	893	0.48
3508022	2.40	11	0.14	0.90	902	0.52
3508023	2.44	12	0.15	1.40	1085	0.54
3508024	2.37	12	0.15	0.52	838	0.56
3508025	2.35	12	0.16	0.74	828	0.56
3508026	2.76	9	0.15	0.56	809	0.47
3508027	2.53	10	0.16	0.58	831	0.51
3508028	2.60	10	0.14	0.76	835	0.49
3508029	2.58	12	0.14	0.87	858	0.49
3508030	0.04	<1	<0.01	0.01	80.4	<0.01
3508031	2.45	67	0.17	1.52	546	0.45
3508032	2.57	44	0.15	0.94	741	0.47
3508033	2.25	36	0.19	0.85	819	0.46
3508034	2.19	32	0.19	0.58	764	0.45
3508035	2.52	38	0.19	0.71	789	0.45
3508036	2.33	38	0.18	0.91	779	0.45

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508037	2.25	36	0.19	0.70	748	0.47
3508038	3.50	6	0.18	0.67	861	0.40
3508039	3.55	5	0.19	0.79	861	0.39
3508040	2.07	57	0.10	0.37	317	0.47
3508041	3.81	5	0.19	0.57	884	0.38
3508042	3.78	4	0.18	1.06	843	0.38
3508043	3.62	4	0.19	0.81	974	0.39
3508044	3.63	4	0.19	0.41	948	0.38
3508045	3.65	4	0.18	0.33	1008	0.37
3508046	3.73	4	0.18	0.41	920	0.38
3508047	3.84	4	0.18	0.58	834	0.37
3508048	3.86	4	0.18	1.47	606	0.37
3508049	3.73	5	0.19	1.39	965	0.38
3508050	0.03	<1	<0.01	<0.01	73.6	<0.01
3508051	3.32	4	0.18	1.03	900	0.37
3508052	3.67	5	0.18	1.39	872	0.39
3508053	3.70	4	0.19	1.19	812	0.38
3508054	3.60	5	0.18	0.77	870	0.38
3508055	3.50	4	0.18	0.75	844	0.38
3508056	3.53	4	0.18	0.69	1026	0.37
3508057	3.58	4	0.18	1.05	780	0.38
3508058	3.64	6	0.18	0.81	908	0.39
3508059	2.78	38	0.15	0.79	862	0.51
3508060	2.06	56	0.11	0.36	323	0.46
3508061	2.66	63	0.16	0.73	556	0.47
3508062	2.93	18	0.22	0.66	1020	0.40
3508063	2.76	30	0.16	0.66	731	0.50
3508064	3.40	8	0.18	0.84	514	0.36
3508065	3.04	26	0.15	1.11	514	0.59

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508066	3.01	27	0.15	0.69	672	0.62
3508067	2.77	28	0.15	0.60	776	0.61
3508068	2.57	29	0.15	0.93	735	0.62
3508069	3.25	20	0.17	2.82	508	0.43
3508070	0.04	<1	<0.01	0.01	77.6	<0.01
3508071	3.10	15	0.15	3.33	378	0.32
3508072	2.89	29	0.16	2.08	458	0.41
3508073	1.89	18	0.15	3.26	222	0.34
3508074	2.39	20	0.19	1.64	742	0.46
3508075	2.66	24	0.17	1.33	679	0.46
3508076	2.62	22	0.16	1.97	523	0.43
*Dup 3508039	3.64	5	0.20	0.81	900	0.40
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.7	<0.01
*Rep 3508010	0.04	<1	<0.01	<0.01	75.1	<0.01
*Std OREAS 520	1.36	76	0.08	1.00	103	0.39
*Std OREAS 601	1.43	26	0.05	1.11	232	0.17
*Std OREAS 601	1.43	26	0.05	1.10	228	0.17
*Std OREAS 520	1.38	73	0.07	0.99	105	0.39
*Rep 3508041	3.74	5	0.19	0.56	855	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Rep 3508076	2.55	21	0.15	1.91	505	0.42
*Std OREAS 601	1.46	23	0.05	1.11	236	0.17
*Std OREAS 520	1.38	74	0.07	1.03	105	0.41

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508001	404	202	9.7	2.55	11	0.5
3508002	439	92	10.6	0.66	7	0.4
3508003	502	120	11.1	0.83	6	0.4
3508004	453	118	11.1	1.97	7	0.4
3508005	472	152	11.9	1.08	6	0.5
3508006	467	597	13.0	0.83	11	0.5
3508007	374	274	10.1	0.45	8	0.5
3508008	386	87	10.5	0.50	4	0.5
3508009	399	97	9.3	0.54	5	0.5
3508010	<2	4	1.3	0.03	<1	<0.1
3508011	404	93	9.0	0.33	6	0.5
3508012	373	97	13.0	0.31	6	0.5
3508013	345	101	9.9	0.43	4	0.6
3508014	366	87	8.6	0.67	4	0.5
3508015	344	90	9.4	0.67	4	0.5
3508016	365	85	8.3	0.28	5	0.4
3508017	356	120	9.1	0.53	14	0.5
3508018	330	104	7.3	0.51	9	0.6
3508019	334	86	11.9	0.51	6	0.7
3508020	123	77	77.7	0.24	25	3.2
3508021	318	99	10.9	0.42	7	0.7
3508022	383	165	9.7	0.68	6	0.7
3508023	373	104	8.8	0.61	6	0.6
3508024	383	94	9.9	0.45	7	0.5
3508025	367	107	10.9	0.49	7	0.6
3508026	283	124	12.3	0.38	6	0.8
3508027	313	89	14.4	0.30	3	0.7
3508028	315	81	13.2	0.35	5	0.7
3508029	337	92	12.1	0.41	5	0.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508030	<2	3	1.8	0.05	<1	<0.1
3508031	272	133	17.4	0.48	7	0.8
3508032	298	116	15.4	0.51	5	0.9
3508033	253	88	13.0	0.45	4	0.7
3508034	234	77	12.2	0.29	5	0.8
3508035	225	81	10.9	0.34	4	0.7
3508036	244	96	11.1	0.83	5	1.0
3508037	262	83	11.3	0.31	7	0.9
3508038	210	62	8.7	0.27	5	1.2
3508039	202	56	8.9	0.12	5	1.0
3508040	121	76	73.8	0.44	26	3.3
3508041	192	58	8.7	0.23	5	1.2
3508042	194	54	7.9	0.25	4	1.3
3508043	196	52	9.3	0.24	5	1.2
3508044	192	63	8.6	0.23	5	1.2
3508045	195	78	8.6	0.23	5	1.4
3508046	190	65	8.7	0.58	5	1.3
3508047	186	59	8.7	0.29	3	1.2
3508048	185	81	8.9	0.46	5	1.3
3508049	191	49	9.2	0.43	6	1.2
3508050	<2	3	1.2	0.10	3	<0.1
3508051	184	47	8.9	0.17	6	1.2
3508052	198	47	8.7	0.37	5	1.1
3508053	197	46	8.4	0.24	4	1.2
3508054	192	48	10.6	0.17	4	1.3
3508055	190	47	9.0	0.17	4	1.2
3508056	190	50	8.9	0.18	4	1.3
3508057	195	72	8.7	0.25	6	1.2
3508058	201	72	9.5	0.51	5	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508059	280	82	17.4	0.37	5	1.0
3508060	119	74	73.2	0.47	24	3.4
3508061	261	104	22.0	0.37	6	1.0
3508062	179	91	13.9	0.32	5	1.3
3508063	277	84	16.6	0.26	5	1.0
3508064	150	68	8.1	0.35	4	1.1
3508065	305	95	18.4	0.37	9	1.1
3508066	311	71	18.4	0.34	6	1.0
3508067	310	75	19.7	0.27	5	0.8
3508068	310	69	21.9	0.35	6	1.0
3508069	274	103	9.4	0.39	17	1.2
3508070	<2	3	1.6	0.05	<1	<0.1
3508071	244	191	10.8	0.47	20	1.9
3508072	266	113	17.1	0.39	20	1.4
3508073	258	252	18.5	0.38	70	3.0
3508074	277	84	20.2	0.33	24	1.7
3508075	308	83	18.6	0.33	22	1.1
3508076	303	173	16.3	0.72	40	1.6
*Dup 3508039	206	59	10.3	0.16	7	1.0
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Rep 3508010	<2	5	1.3	<0.02	<1	<0.1
*Std OREAS 520	254	22	127	0.37	163	1.2
*Std OREAS 601	27	1269	156	50.70	280	2.4
*Std OREAS 601	26	1234	154	49.97	318	2.2
*Rep 3508041	-	-	-	0.22	6	1.3
*Std OREAS 520	258	22	131	0.51	159	1.3
*Rep 3508041	194	59	8.5	-	-	-
*Blk BLANK	<2	<1	<0.5	-	-	-
*Rep 3508076	297	172	16.6	0.61	38	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	27	1252	155	50.58	281	2.1
*Std OREAS 520	264	23	127	0.47	164	1.1
*Blk BLANK	-	-	-	<0.02	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508001	0.04	0.86	12.53	28.8	<1	20.6
3508002	<0.04	0.48	13.39	34.1	<1	21.7
3508003	<0.04	0.52	20.42	39.8	<1	22.2
3508004	<0.04	0.66	17.59	37.4	1	21.5
3508005	<0.04	0.80	16.84	33.9	1	20.9
3508006	0.06	4.80	16.33	42.1	1	21.4
3508007	<0.04	3.02	15.84	36.3	<1	20.8
3508008	0.04	0.23	16.98	35.0	<1	19.8
3508009	0.07	0.27	17.14	41.9	<1	20.6
3508010	<0.04	<0.02	1.30	1.2	<1	0.2
3508011	<0.04	0.26	18.13	33.6	1	21.0
3508012	<0.04	0.77	19.53	34.0	1	21.4
3508013	0.06	1.13	18.88	31.8	<1	20.6
3508014	<0.04	0.34	16.63	31.9	1	21.0
3508015	<0.04	0.34	17.58	32.5	1	21.4
3508016	<0.04	0.18	17.78	31.4	1	21.5
3508017	0.10	0.47	16.41	32.2	1	20.9
3508018	0.08	0.57	15.36	28.9	2	21.5
3508019	<0.04	0.20	19.18	32.8	<1	21.2
3508020	0.72	0.27	69.62	15.7	13	18.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508021	<0.04	0.30	17.31	30.0	<1	21.1
3508022	1.05	1.49	15.27	35.1	1	21.5
3508023	0.17	0.40	15.64	37.6	<1	21.1
3508024	0.08	0.23	15.54	36.7	<1	22.1
3508025	0.09	0.34	16.71	35.1	2	22.1
3508026	<0.04	0.65	19.52	28.5	<1	20.8
3508027	0.05	0.19	19.45	32.6	<1	20.8
3508028	0.08	0.24	18.19	32.5	<1	21.5
3508029	0.49	0.22	17.37	30.1	1	20.3
3508030	<0.04	<0.02	1.08	1.3	<1	0.2
3508031	0.18	0.26	17.84	33.9	4	19.0
3508032	0.19	0.48	17.90	31.1	3	19.1
3508033	0.06	0.23	20.01	31.3	2	18.6
3508034	<0.04	0.20	21.57	32.5	1	19.7
3508035	0.04	0.22	21.55	30.4	1	19.3
3508036	0.73	0.34	21.31	30.9	1	19.7
3508037	0.06	0.24	18.63	32.6	1	19.2
3508038	0.10	0.26	24.02	16.6	<1	22.6
3508039	0.10	0.14	26.72	13.8	<1	21.9
3508040	0.67	0.34	71.20	15.2	13	19.5
3508041	0.06	0.11	29.49	15.4	<1	24.2
3508042	0.09	0.12	26.90	16.4	<1	24.1
3508043	0.07	0.17	26.19	15.0	<1	24.4
3508044	0.05	0.18	26.57	12.9	<1	23.9
3508045	0.05	0.22	26.84	14.0	1	24.1
3508046	0.20	0.21	26.67	13.3	1	23.7
3508047	0.06	0.17	27.09	14.1	2	23.5
3508048	0.63	0.44	26.42	16.3	2	23.0
3508049	0.11	0.14	26.47	16.5	<1	23.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508050	<0.04	<0.02	0.95	3.3	<1	0.1
3508051	0.08	0.14	24.37	14.1	<1	23.2
3508052	0.10	0.16	28.06	18.4	<1	23.6
3508053	0.11	0.10	27.80	16.6	<1	24.3
3508054	0.07	0.14	28.73	12.9	<1	24.0
3508055	0.07	0.12	26.52	11.4	<1	22.4
3508056	0.08	0.12	28.01	12.3	<1	24.9
3508057	0.08	0.25	28.77	13.5	<1	24.2
3508058	0.07	0.20	27.95	15.1	<1	24.2
3508059	0.05	0.28	20.43	31.3	<1	20.2
3508060	0.71	0.36	71.58	14.6	13	19.7
3508061	0.05	0.22	20.71	31.4	2	19.7
3508062	0.04	0.36	23.06	22.7	<1	20.4
3508063	0.05	0.22	18.89	30.6	1	19.6
3508064	0.07	0.24	22.50	19.2	<1	19.0
3508065	0.06	0.24	18.03	31.6	2	20.0
3508066	<0.04	0.18	19.22	32.8	1	20.4
3508067	<0.04	0.19	16.65	29.3	<1	17.7
3508068	0.05	0.19	19.88	35.9	2	20.8
3508069	0.29	0.61	19.81	24.9	3	20.0
3508070	<0.04	<0.02	2.33	0.6	<1	0.5
3508071	1.32	2.64	18.46	26.2	3	18.4
3508072	0.18	0.62	19.28	25.3	4	18.9
3508073	0.25	3.22	16.60	25.2	2	17.3
3508074	0.08	0.32	21.16	25.3	2	18.8
3508075	0.20	0.25	20.98	27.9	2	18.8
3508076	0.99	2.12	18.34	29.5	2	18.4
*Dup 3508039	0.09	0.17	28.59	14.3	<1	21.5
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Rep 3508010	<0.04	<0.02	1.31	1.3	<1	0.2
*Std OREAS 520	2.98	0.10	79.03	200	<1	20.2
*Std OREAS 601	20.25	7.50	60.25	5.7	7	19.9
*Std OREAS 601	20.49	8.14	62.33	5.7	7	21.8
*Rep 3508041	0.06	0.13	30.40	16.6	<1	26.9
*Std OREAS 520	2.98	0.14	83.39	183	<1	20.0
*Rep 3508076	0.70	2.14	19.29	29.8	2	18.9
*Std OREAS 601	20.31	7.42	63.87	5.5	7	20.1
*Std OREAS 520	2.98	0.10	82.43	202	<1	19.3
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508001	0.60	0.08	5.7	0.24	2.72	2.9
3508002	0.65	0.08	6.2	0.24	1.40	2.3
3508003	0.65	0.08	9.6	0.26	1.48	3.1
3508004	0.64	0.08	8.1	0.24	1.38	2.8
3508005	0.68	0.07	8.0	0.25	2.67	2.6
3508006	0.68	0.09	7.9	0.25	2.87	2.5
3508007	0.60	0.08	7.6	0.24	7.08	2.8
3508008	0.62	0.07	8.2	0.26	2.35	3.1
3508009	0.58	0.07	8.1	0.26	2.74	2.8
3508010	0.03	<0.02	1.5	0.02	0.12	<0.1
3508011	0.55	0.07	8.7	0.26	1.84	3.0
3508012	0.62	0.07	9.3	0.28	1.99	3.9
3508013	0.58	0.07	9.5	0.27	1.72	4.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508014	0.53	0.09	8.1	0.26	1.68	3.7
3508015	0.55	0.09	8.9	0.26	1.53	3.7
3508016	0.55	0.06	8.5	0.27	2.04	3.3
3508017	0.57	0.07	8.3	0.26	3.20	4.7
3508018	0.52	0.07	7.5	0.25	3.07	4.6
3508019	0.68	0.07	9.2	0.30	3.04	6.0
3508020	2.50	0.08	35.0	0.41	91.75	20.4
3508021	0.61	0.07	8.9	0.27	3.68	5.4
3508022	0.59	0.08	7.4	0.24	5.23	4.3
3508023	0.55	0.08	7.8	0.22	12.20	4.3
3508024	0.59	0.08	7.7	0.25	5.04	4.7
3508025	0.60	0.09	8.2	0.27	3.21	4.9
3508026	0.64	0.07	9.6	0.28	4.08	6.4
3508027	0.73	0.07	9.6	0.27	3.40	5.1
3508028	0.69	0.07	9.0	0.27	3.90	5.6
3508029	0.64	0.06	8.6	0.25	18.74	4.9
3508030	0.05	<0.02	1.3	0.02	0.75	<0.1
3508031	0.81	0.09	9.2	0.25	5.13	3.4
3508032	0.77	0.09	9.0	0.25	14.19	3.6
3508033	0.63	0.07	10.2	0.25	5.56	3.7
3508034	0.65	0.06	11.0	0.27	3.96	4.8
3508035	0.61	0.06	11.0	0.26	4.10	5.7
3508036	0.57	0.07	10.7	0.25	8.88	5.6
3508037	0.61	0.07	9.3	0.25	14.99	5.2
3508038	0.52	0.06	12.4	0.23	29.27	10.5
3508039	0.51	0.05	14.6	0.24	21.59	11.0
3508040	2.44	0.07	35.0	0.39	109	19.7
3508041	0.52	0.05	14.7	0.24	4.34	11.7
3508042	0.50	0.06	14.4	0.24	6.40	11.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508043	0.51	0.05	13.6	0.23	7.37	11.7
3508044	0.50	0.05	14.0	0.24	4.87	11.6
3508045	0.51	0.06	14.3	0.24	8.93	11.3
3508046	0.50	0.05	14.9	0.23	4.91	11.7
3508047	0.47	0.05	14.5	0.24	4.41	11.6
3508048	0.42	0.06	14.3	0.24	4.29	11.4
3508049	0.50	0.06	14.1	0.24	3.44	11.6
3508050	0.03	<0.02	1.2	0.02	0.10	0.1
3508051	0.48	0.05	12.9	0.23	21.97	11.4
3508052	0.46	0.06	15.3	0.24	3.84	11.7
3508053	0.43	0.07	15.4	0.25	4.80	11.6
3508054	0.45	0.06	15.6	0.25	4.27	12.0
3508055	0.45	0.06	14.3	0.22	4.25	11.4
3508056	0.46	0.06	14.9	0.24	5.51	11.3
3508057	0.46	0.05	15.6	0.23	6.97	11.4
3508058	0.48	0.06	15.2	0.22	4.96	10.8
3508059	0.76	0.07	10.0	0.27	4.21	6.1
3508060	2.46	0.08	35.2	0.39	109	19.8
3508061	0.87	0.06	10.2	0.25	4.81	7.6
3508062	0.53	0.04	11.6	0.24	5.35	5.6
3508063	0.76	0.06	9.2	0.26	5.77	5.1
3508064	0.44	0.05	11.4	0.28	16.09	7.9
3508065	0.78	0.07	8.3	0.31	5.02	4.7
3508066	0.81	0.07	8.9	0.33	9.07	4.7
3508067	0.74	0.06	7.6	0.29	5.18	3.9
3508068	0.88	0.07	9.3	0.32	7.21	4.9
3508069	0.54	0.06	9.4	0.22	6.60	5.0
3508070	0.04	<0.02	2.0	0.02	0.08	0.2
3508071	0.49	0.07	9.2	0.19	57.83	3.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508072	0.70	0.08	9.6	0.23	12.38	4.2
3508073	0.82	0.06	8.1	0.20	93.33	4.7
3508074	0.92	0.07	10.9	0.26	9.64	6.3
3508075	0.89	0.09	11.0	0.24	6.40	4.9
3508076	0.77	0.07	9.2	0.22	8.84	4.1
*Dup 3508039	0.50	0.06	15.3	0.25	20.45	11.3
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508010	0.04	<0.02	1.5	0.02	0.06	<0.1
*Std OREAS 520	3.80	0.14	81.4	0.38	61.63	5.8
*Std OREAS 601	4.53	1.90	30.6	0.10	3.93	13.7
*Std OREAS 601	4.58	1.79	31.0	0.10	4.26	13.7
*Rep 3508041	0.57	0.05	16.5	0.27	5.39	13.0
*Std OREAS 520	3.92	0.14	84.8	0.38	69.59	5.2
*Rep 3508076	0.76	0.08	9.7	0.23	9.75	4.2
*Std OREAS 601	4.55	1.93	32.9	0.10	3.79	14.0
*Std OREAS 520	3.83	0.14	84.0	0.37	59.14	6.2
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508001	6.3	29.5	23.2	3	9.05	0.8
3508002	10.7	34.8	29.0	<2	3.69	0.9
3508003	30.6	43.2	29.6	2	3.01	1.1
3508004	34.6	39.8	25.7	<2	2.42	0.8
3508005	9.4	49.2	28.2	<2	2.76	0.8
3508006	7.6	53.0	29.0	3	5.68	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508007	4.2	39.4	25.8	2	4.45	0.9
3508008	4.1	42.8	26.0	3	1.70	0.8
3508009	4.2	40.2	27.2	3	1.77	0.7
3508010	1.1	0.3	<0.5	<2	<0.05	<0.3
3508011	3.6	49.0	27.7	2	1.52	0.7
3508012	4.1	51.1	27.6	2	1.87	0.7
3508013	4.2	57.9	22.8	2	1.56	0.7
3508014	4.1	48.0	23.3	2	1.38	0.8
3508015	4.3	57.1	24.0	<2	1.35	0.8
3508016	4.4	39.7	23.2	<2	1.35	0.7
3508017	5.8	59.0	24.3	3	1.41	0.9
3508018	5.6	66.0	21.4	2	1.70	0.9
3508019	4.4	50.9	22.9	<2	1.26	1.0
3508020	24.7	200	14.4	3	2.25	3.4
3508021	5.2	42.9	22.0	<2	1.27	0.9
3508022	57.1	51.3	25.5	3	1.55	0.9
3508023	9.6	37.0	23.7	4	5.45	1.1
3508024	6.8	48.5	26.9	3	1.33	1.0
3508025	14.1	62.8	25.1	2	1.30	1.0
3508026	6.0	49.6	18.5	2	1.00	0.8
3508027	4.6	54.7	21.2	2	1.06	0.8
3508028	5.7	49.7	22.2	2	1.25	0.8
3508029	24.5	49.2	21.3	2	1.22	0.8
3508030	1.2	0.4	<0.5	<2	0.06	<0.3
3508031	9.1	104	28.9	3	1.63	0.9
3508032	14.6	67.1	29.2	2	1.11	0.9
3508033	5.7	70.4	24.0	2	0.82	0.7
3508034	5.0	71.6	23.8	2	0.68	0.8
3508035	4.9	64.1	19.7	2	0.90	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508036	61.2	72.4	20.6	3	1.41	0.8
3508037	5.7	49.6	21.7	2	1.12	0.8
3508038	4.8	64.8	10.9	2	1.48	0.8
3508039	4.4	59.8	9.2	6	1.11	0.8
3508040	20.7	209	14.9	2	2.31	3.5
3508041	4.1	64.8	9.8	2	1.35	0.8
3508042	4.5	61.4	9.7	4	1.09	0.8
3508043	4.2	57.3	9.5	3	1.05	0.8
3508044	4.4	67.4	9.8	<2	1.02	0.7
3508045	4.6	74.7	9.8	<2	1.48	0.7
3508046	12.2	73.5	9.5	<2	1.21	0.7
3508047	4.9	80.9	9.4	<2	0.87	0.6
3508048	31.7	106	9.2	4	0.75	0.7
3508049	5.0	64.2	9.5	4	1.50	0.6
3508050	0.7	0.3	<0.5	<2	<0.05	<0.3
3508051	4.9	57.1	9.3	3	1.64	0.6
3508052	4.7	61.7	10.0	4	1.20	0.7
3508053	4.9	56.3	9.8	4	1.21	0.6
3508054	4.5	64.3	9.6	2	1.09	0.7
3508055	4.4	59.9	9.0	3	1.00	0.6
3508056	4.6	59.0	9.7	2	1.18	0.7
3508057	5.5	71.7	9.8	3	1.07	0.7
3508058	5.7	66.2	10.4	2	1.09	0.8
3508059	4.2	46.1	31.6	2	1.05	1.0
3508060	20.4	210	15.3	2	2.29	3.6
3508061	3.8	80.6	32.1	<2	0.74	1.2
3508062	5.7	60.6	18.1	<2	1.34	0.8
3508063	4.4	50.7	32.3	2	1.27	1.0
3508064	6.5	74.3	14.3	2	0.85	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508065	4.4	70.4	36.9	2	1.41	1.1
3508066	3.8	52.4	37.1	<2	1.28	1.1
3508067	3.3	37.2	34.6	<2	0.94	0.9
3508068	5.4	62.8	38.1	2	1.01	1.1
3508069	25.5	103	27.4	3	1.04	1.1
3508070	0.9	0.3	<0.5	3	0.06	<0.3
3508071	87.8	98.6	21.2	4	1.17	1.2
3508072	23.3	122	31.9	3	1.62	1.1
3508073	59.5	100	27.2	3	1.96	1.5
3508074	16.5	80.3	32.2	2	1.35	1.2
3508075	26.1	64.8	29.9	3	1.23	1.0
3508076	93.6	102	29.2	3	1.05	0.8
*Dup 3508039	4.6	61.4	9.1	6	1.18	0.9
*Blk BLANK	0.8	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508010	0.9	0.4	<0.5	<2	0.06	<0.3
*Std OREAS 520	7.5	114	19.4	2	3.20	4.8
*Std OREAS 601	299	88.5	5.3	11	30.44	4.0
*Std OREAS 601	321	99.6	5.3	11	32.28	4.3
*Rep 3508041	4.7	71.6	11.0	2	1.52	0.9
*Std OREAS 520	6.6	117	19.4	<2	3.28	4.9
*Rep 3508076	81.1	102	29.1	3	1.05	0.8
*Std OREAS 601	302	95.7	4.9	11	31.09	4.2
*Std OREAS 520	6.9	118	18.2	2	3.24	4.8
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508001	0.30	0.55	0.17	0.4	0.23	0.31
3508002	0.18	0.57	0.08	0.5	0.20	0.25
3508003	0.21	0.73	0.10	0.7	0.19	0.45
3508004	0.18	0.65	0.08	0.7	0.22	0.36
3508005	0.16	0.66	0.08	0.7	0.22	0.35
3508006	0.15	0.64	0.15	0.7	0.25	0.38
3508007	0.17	0.59	0.09	0.6	0.17	0.33
3508008	0.20	0.63	0.09	0.8	0.20	0.41
3508009	0.16	0.64	0.08	0.6	0.18	0.30
3508010	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508011	0.17	0.66	0.05	0.7	0.22	0.31
3508012	0.21	0.69	0.07	0.7	0.23	0.31
3508013	0.23	0.63	0.08	1.0	0.25	0.39
3508014	0.19	0.61	0.08	0.5	0.24	0.27
3508015	0.19	0.63	0.06	0.6	0.24	0.27
3508016	0.21	0.63	<0.05	0.5	0.20	0.25
3508017	0.23	0.55	0.07	0.5	0.26	0.34
3508018	0.24	0.57	0.08	0.5	0.34	0.29
3508019	0.31	0.65	0.07	0.9	0.21	0.39
3508020	1.55	0.91	0.24	19.9	1.08	5.47
3508021	0.28	0.58	<0.05	0.9	0.17	0.38
3508022	0.24	0.57	0.06	0.5	0.21	0.34
3508023	0.22	0.56	0.11	0.4	0.16	0.32
3508024	0.24	0.59	0.05	0.5	0.19	0.35
3508025	0.24	0.60	0.08	0.6	0.28	0.38
3508026	0.33	0.59	0.07	1.0	0.22	0.47
3508027	0.28	0.60	0.09	0.9	0.20	0.45
3508028	0.31	0.61	0.08	1.1	0.19	0.53
3508029	0.25	0.57	0.10	0.8	0.20	0.49

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508030	<0.05	<0.05	<0.05	<0.2	<0.02	0.13
3508031	0.19	0.56	0.11	0.7	0.52	0.51
3508032	0.20	0.56	0.07	0.7	0.31	0.95
3508033	0.21	0.55	0.07	0.7	0.28	0.42
3508034	0.28	0.56	0.06	1.1	0.29	0.52
3508035	0.31	0.57	0.06	1.1	0.27	0.62
3508036	0.30	0.55	0.12	1.2	0.34	0.86
3508037	0.27	0.55	0.10	0.7	0.26	0.76
3508038	0.60	0.49	0.12	2.9	0.24	1.14
3508039	0.65	0.52	0.09	3.0	0.24	1.20
3508040	1.41	0.86	0.24	20.0	0.96	5.47
3508041	0.65	0.53	0.09	2.9	0.22	1.06
3508042	0.61	0.52	0.14	3.0	0.22	1.06
3508043	0.63	0.53	0.07	2.9	0.19	1.07
3508044	0.63	0.54	<0.05	2.7	0.22	1.09
3508045	0.62	0.52	0.07	3.3	0.26	1.25
3508046	0.63	0.53	<0.05	2.9	0.25	1.17
3508047	0.63	0.53	0.08	2.9	0.29	1.19
3508048	0.61	0.51	0.16	2.7	0.39	1.25
3508049	0.59	0.53	0.12	3.1	0.21	1.21
3508050	<0.05	<0.05	<0.05	<0.2	<0.02	0.09
3508051	0.61	0.52	0.09	2.7	0.19	1.19
3508052	0.63	0.54	0.10	3.5	0.19	1.22
3508053	0.61	0.54	0.11	2.7	0.19	1.16
3508054	0.66	0.55	0.07	5.8	0.22	1.46
3508055	0.64	0.52	<0.05	3.4	0.20	1.21
3508056	0.59	0.53	0.10	2.5	0.20	1.02
3508057	0.63	0.52	0.09	2.8	0.26	1.08
3508058	0.59	0.50	0.08	2.5	0.24	1.00

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508059	0.34	0.53	0.06	1.4	0.18	0.68
3508060	1.38	0.88	0.26	19.9	0.97	5.30
3508061	0.41	0.55	<0.05	1.8	0.34	0.75
3508062	0.31	0.49	0.08	2.0	0.20	0.99
3508063	0.29	0.57	<0.05	1.3	0.20	0.62
3508064	0.41	0.54	0.09	2.3	0.26	1.10
3508065	0.27	0.62	0.10	1.1	0.29	0.61
3508066	0.29	0.63	0.06	1.4	0.23	0.72
3508067	0.23	0.59	0.09	0.9	0.15	0.55
3508068	0.29	0.66	0.10	1.3	0.25	0.65
3508069	0.27	0.52	0.25	1.6	0.45	0.80
3508070	<0.05	0.05	<0.05	<0.2	<0.02	0.14
3508071	0.21	0.44	0.22	1.6	0.42	1.17
3508072	0.25	0.52	0.12	1.5	0.54	0.89
3508073	0.25	0.45	0.13	1.5	0.37	1.22
3508074	0.34	0.54	<0.05	1.7	0.32	1.01
3508075	0.28	0.58	0.05	1.9	0.32	1.12
3508076	0.24	0.53	0.08	1.7	0.42	1.12
*Dup 3508039	0.64	0.55	0.09	3.2	0.23	1.27
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508010	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
*Std OREAS 520	0.41	0.73	0.35	10.2	0.28	19.11
*Std OREAS 601	1.09	0.60	14.83	11.4	1.31	4.09
*Std OREAS 601	0.98	0.58	15.98	11.5	1.20	3.99
*Rep 3508041	0.70	0.58	0.09	3.2	0.24	1.13
*Std OREAS 520	0.41	0.68	0.42	10.0	0.26	18.37
*Rep 3508076	0.24	0.55	0.08	1.7	0.43	1.13
*Std OREAS 601	1.09	0.60	14.64	11.8	1.33	4.19
*Std OREAS 520	0.47	0.74	0.33	10.6	0.29	19.30

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508001	1.4	15.4	1.5
3508002	0.7	16.4	1.5
3508003	0.6	20.3	1.7
3508004	0.5	18.3	1.5
3508005	0.9	18.8	1.5
3508006	1.5	18.5	1.5
3508007	1.3	17.0	1.4
3508008	3.8	17.6	1.6
3508009	1.1	18.5	1.6
3508010	<0.1	2.6	0.1
3508011	0.8	19.6	1.7
3508012	0.9	20.6	1.7
3508013	0.7	19.1	1.6
3508014	0.9	17.4	1.6
3508015	0.9	18.7	1.6
3508016	0.9	18.6	1.6
3508017	1.2	17.5	1.5
3508018	1.4	16.6	1.5
3508019	1.2	20.3	1.8
3508020	4.4	23.8	2.5
3508021	1.1	18.5	1.6
3508022	0.8	16.7	1.5
3508023	0.9	16.3	1.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508024	0.7	17.4	1.5
3508025	0.6	18.8	1.6
3508026	0.8	18.6	1.7
3508027	0.6	18.6	1.6
3508028	0.6	18.4	1.6
3508029	0.9	17.4	1.6
3508030	<0.1	2.5	0.1
3508031	0.7	17.5	1.5
3508032	0.6	17.5	1.5
3508033	0.5	17.8	1.5
3508034	0.6	17.9	1.6
3508035	0.8	17.3	1.6
3508036	1.5	17.3	1.5
3508037	0.9	16.7	1.5
3508038	1.0	15.9	1.4
3508039	0.9	16.2	1.6
3508040	4.0	27.5	2.5
3508041	0.9	17.4	1.5
3508042	1.0	17.0	1.5
3508043	0.8	16.8	1.5
3508044	1.0	16.7	1.5
3508045	1.0	16.8	1.5
3508046	0.8	16.8	1.5
3508047	0.9	17.0	1.5
3508048	1.0	16.4	1.5
3508049	0.8	16.9	1.6
3508050	<0.1	2.5	0.1
3508051	0.9	16.2	1.5
3508052	1.1	17.2	1.6
3508053	0.9	17.2	1.5
3508054	0.7	17.4	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508055	0.7	16.3	1.5
3508056	0.9	16.9	1.5
3508057	1.0	16.7	1.5
3508058	1.0	16.5	1.4
3508059	0.6	18.6	1.7
3508060	4.8	27.8	2.5
3508061	0.5	18.2	1.7
3508062	0.7	16.4	1.5
3508063	0.7	18.6	1.7
3508064	1.2	19.6	1.8
3508065	1.2	21.6	2.0
3508066	0.9	22.3	2.0
3508067	0.8	20.1	1.9
3508068	0.8	22.5	2.1
3508069	1.0	16.4	1.5
3508070	<0.1	2.9	0.2
3508071	4.1	14.9	1.3
3508072	1.1	17.4	1.5
3508073	1.2	15.0	1.3
3508074	0.9	18.1	1.6
3508075	0.7	18.1	1.6
3508076	0.9	16.8	1.5
*Dup 3508039	0.9	16.6	1.6
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508010	<0.1	2.6	0.1
*Std OREAS 520	44.3	22.2	2.2
*Std OREAS 601	5.8	10.9	0.6
*Std OREAS 601	5.7	12.2	0.7
*Rep 3508041	1.1	19.3	1.7
*Std OREAS 520	46.7	22.3	2.3
*Rep 3508076	0.9	17.1	1.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05178

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	6.0	11.5	0.7
*Std OREAS 520	45.6	22.1	2.2
*Blk BLANK	<0.1	<0.1	<0.1

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05201

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	19-Oct-2020
Project	MT MILLIGAN	Date Analysed	22-Oct-2020 - 02-Nov-2020
Submission Number	*BBY* MAX20_Core_15/ 241 Core (1-76)	Date Completed	03-Nov-2020
		SGS Order Number	BBM20-05201
Number of Samples	76		

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508247	3.59	49	8.65	477	7.96	10
3508248	4.34	66	8.41	472	7.57	7
3508249	5.36	47	7.80	449	8.44	7
3508250	1.37	<5	0.11	19	>15.00	1
3508251	4.59	16	8.49	454	6.94	6
3508252	4.34	40	8.07	451	8.50	8
3508253	4.90	36	8.50	355	8.40	6
3508254	4.86	38	8.42	408	8.63	6
3508255	-	48	8.43	403	8.72	7
3508256	4.20	27	8.35	500	7.72	6
3508257	3.45	22	8.06	349	7.09	6
3508258	4.80	35	8.63	368	8.61	5
3508259	5.15	56	8.32	377	4.76	5
3508260	0.15	215	7.70	967	2.56	71
3508261	4.32	15	8.89	423	7.87	5
3508262	5.07	22	8.51	341	8.09	7
3508263	5.20	23	8.58	298	8.97	6
3508264	4.98	29	8.25	289	8.39	5
3508265	4.86	32	7.98	318	9.07	7
3508266	5.24	94	8.37	353	8.45	7
3508267	5.33	44	8.39	353	8.72	9
3508268	5.25	63	8.22	376	8.40	9
3508269	4.47	35	8.26	502	8.32	9
3508270	1.55	<5	0.09	12	>15.00	1
3508271	4.81	63	8.05	483	8.61	7
3508272	5.21	52	8.18	377	8.77	9
3508273	4.79	35	8.58	439	7.76	7
3508274	4.70	33	8.32	516	7.78	8
3508275	4.90	19	8.16	517	8.42	9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508276	5.37	99	7.41	361	9.22	7
3508277	5.07	19	8.26	435	8.48	10
3508278	4.79	27	8.44	465	8.15	9
3508279	5.60	20	8.17	371	8.66	10
3508280	0.15	223	7.73	986	2.59	75
3508281	5.12	21	7.96	465	8.46	10
3508282	4.63	20	7.70	420	8.01	9
3508283	4.87	26	8.40	725	6.39	10
3508284	5.27	38	8.25	639	8.42	9
3508285	5.11	31	8.55	621	8.43	9
3508286	5.13	31	8.53	775	8.43	9
3508287	5.05	43	8.40	610	7.93	10
3508288	5.08	44	8.37	651	7.90	25
3508289	5.13	102	8.53	544	8.36	10
3508290	1.26	8	0.10	17	>15.00	2
3508291	5.38	24	8.20	593	8.20	8
3508292	4.79	26	8.25	469	8.64	9
3508293	5.28	24	8.09	441	8.74	7
3508294	5.03	22	8.43	539	8.51	9
3508295	-	22	8.34	541	8.59	7
3508296	4.99	28	8.11	595	8.13	9
3508297	5.41	31	7.83	410	8.40	9
3508298	4.88	55	8.12	491	8.56	9
3508299	5.29	32	8.07	426	8.65	19
3508300	0.15	224	7.78	1025	2.57	76
3508301	5.26	76	7.63	344	9.33	13
3508302	4.69	28	8.05	441	8.03	14
3508303	5.29	32	8.57	494	8.59	6
3508304	5.42	43	8.01	521	8.89	11

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508305	4.47	19	7.69	483	6.53	12
3508306	5.22	57	7.32	318	9.65	10
3508307	5.10	59	8.68	527	8.39	7
3508308	4.92	67	8.40	473	8.81	10
3508309	4.92	93	8.35	621	8.24	25
3508310	1.48	5	0.09	13	>15.00	3
3508311	5.29	154	7.86	627	8.40	14
3508312	5.45	289	7.69	499	8.64	25
3508313	5.23	498	7.40	470	8.95	35
3508314	5.20	60	8.19	478	9.32	13
3508315	5.24	99	8.43	514	9.20	16
3508316	5.02	37	8.26	694	8.47	14
3508317	5.48	40	7.78	431	9.29	21
3508318	5.08	89	7.95	378	9.39	25
3508319	5.34	82	8.14	408	9.75	18
3508320	0.13	360	7.33	1375	2.71	20
3508321	5.36	34	7.27	422	9.35	25
3508322	5.67	108	3.55	127	9.47	47
*Dup 3508285	-	30	8.80	628	8.32	9
*Std GS-9B	-	9180	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep PREP_BLANK	-	-	-	-	-	-
*Rep 3508270	-	<5	-	-	-	-
*Std SL76	-	6220	-	-	-	-
*Std OXG123	-	1020	-	-	-	-
*Rep 3508290	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508254	-	-	8.42	413	8.86	6
*Blk BLANK	-	-	0.01	1	0.01	<1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std OREAS 520	-	-	5.58	1398	3.84	33
*Blk BLANK	-	7	-	-	-	-
*Blk BLANK	-	-	<0.01	<1	0.01	<1
*Std OREAS 601	-	-	6.22	2029	1.25	31
*Std OREAS 520	-	-	5.99	1079	3.87	33
*Rep 3508285	-	-	8.46	626	8.29	9
*Std OREAS 601	-	-	6.37	1330	1.25	32
*Std OREAS 520	-	-	5.72	901	3.85	34
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OXG123	-	911	-	-	-	-
*Blk BLANK	-	8	-	-	-	-
*Std SL76	-	5770	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std GS-9B	-	8430	-	-	-	-

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508247	349	9.58	1.26	25	3.87	1834
3508248	444	9.60	1.18	25	3.83	1819
3508249	446	10.16	1.13	25	4.15	1861
3508250	4.3	0.15	0.02	1	2.08	119
3508251	243	9.54	1.14	26	3.63	1838
3508252	482	9.52	1.08	27	4.09	1889
3508253	208	9.28	0.99	26	4.02	1675
3508254	336	9.48	0.93	23	3.88	1798

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508255	339	9.51	0.92	24	3.88	1787
3508256	379	9.52	0.91	25	3.71	1870
3508257	422	9.36	0.72	23	3.41	1980
3508258	354	9.47	1.11	26	3.86	1787
3508259	348	12.43	1.63	47	5.84	2857
3508260	2650	4.37	2.85	34	1.50	506
3508261	337	8.59	1.22	19	3.61	2116
3508262	297	9.22	1.01	19	3.78	1854
3508263	411	9.69	0.74	17	3.91	1965
3508264	380	9.94	0.72	20	3.95	1903
3508265	551	10.15	0.86	20	4.04	1893
3508266	679	9.15	0.88	18	3.84	1665
3508267	449	9.10	0.77	20	4.14	1644
3508268	427	9.57	0.80	18	3.97	1667
3508269	471	9.48	0.97	22	3.80	1734
3508270	0.8	0.14	0.02	1	3.05	140
3508271	418	9.64	0.90	22	3.95	1758
3508272	455	9.73	1.13	22	4.15	1733
3508273	396	8.98	0.96	24	3.55	1643
3508274	486	9.13	1.13	23	3.67	1749
3508275	255	9.28	1.35	27	3.94	1758
3508276	432	9.99	1.05	22	4.34	1971
3508277	282	9.53	1.35	25	4.11	1798
3508278	417	9.50	1.28	28	4.10	1862
3508279	280	9.61	0.83	27	3.94	1870
3508280	2671	4.42	2.75	35	1.52	516
3508281	368	9.98	1.21	25	4.11	1936
3508282	348	9.22	1.10	25	4.03	1906
3508283	842	8.61	1.39	27	3.62	1825

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508284	386	9.26	1.08	23	3.85	1888
3508285	315	9.11	0.84	17	3.82	1765
3508286	248	9.46	0.83	17	3.73	1753
3508287	497	8.95	0.99	19	3.63	1752
3508288	528	9.31	1.09	18	3.58	1637
3508289	1045	9.19	1.05	16	3.70	1659
3508290	2.9	0.19	0.02	<1	1.52	157
3508291	302	9.70	1.05	16	3.74	1763
3508292	350	9.16	0.88	14	3.71	1723
3508293	387	9.68	0.92	15	3.92	1826
3508294	335	9.70	1.15	16	3.85	1783
3508295	325	9.62	1.15	15	3.80	1770
3508296	424	9.77	1.05	15	4.01	1828
3508297	389	10.42	0.86	12	4.07	1853
3508298	500	9.47	0.89	12	3.84	1807
3508299	314	9.51	0.84	13	4.02	1818
3508300	2783	4.41	3.47	36	1.50	547
3508301	670	10.59	0.93	16	4.32	1947
3508302	517	10.29	0.90	18	3.98	2055
3508303	396	9.50	0.94	20	3.55	1797
3508304	396	9.87	1.13	20	3.99	1874
3508305	416	10.25	1.03	27	4.22	2144
3508306	601	11.28	0.55	12	3.82	2174
3508307	382	9.39	0.90	14	3.78	1690
3508308	439	9.41	0.78	13	3.94	1757
3508309	502	9.51	0.91	12	3.97	1740
3508310	5.2	0.15	0.01	1	2.27	143
3508311	625	9.82	0.92	12	3.99	1912
3508312	944	10.03	0.93	13	4.29	1810

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508313	1641	10.35	0.82	13	4.58	1866
3508314	326	9.93	0.95	15	4.17	1779
3508315	509	9.47	1.10	15	4.09	1657
3508316	501	9.53	1.18	18	3.91	1651
3508317	400	10.18	0.97	21	4.64	1796
3508318	368	10.03	0.96	21	4.54	1769
3508319	410	9.98	1.01	21	4.40	1691
3508320	2337	5.70	4.27	14	1.12	642
3508321	216	11.37	1.08	21	4.93	1788
3508322	254	>15.00	0.27	12	6.01	2399
*Dup 3508285	326	9.29	0.86	18	3.93	1817
*Rep 3508254	341	9.52	0.93	24	3.88	1794
*Blk BLANK	<0.5	0.02	<0.01	<1	<0.01	3
*Std OREAS 520	2781	>15.00	3.52	17	1.14	2203
*Blk BLANK	<0.5	0.02	<0.01	<1	<0.01	3
*Std OREAS 601	952	2.54	2.13	21	0.37	456
*Std OREAS 520	2978	>15.00	3.57	19	1.19	2225
*Rep 3508285	316	8.96	0.84	18	3.81	1764
*Std OREAS 601	993	2.52	2.17	22	0.37	478
*Std OREAS 520	2921	>15.00	3.61	18	1.14	2321
*Blk BLANK	0.5	<0.01	<0.01	<1	<0.01	<2

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508247	1.72	18	0.15	0.06	1021	0.64

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508248	1.77	17	0.16	0.03	877	0.61
3508249	1.24	19	0.18	0.07	818	0.70
3508250	0.05	1	<0.01	<0.01	71.7	<0.01
3508251	1.92	17	0.21	0.04	902	0.62
3508252	1.29	19	0.12	0.04	906	0.66
3508253	1.41	18	0.09	0.03	928	0.61
3508254	1.43	19	0.09	0.03	987	0.62
3508255	1.45	19	0.10	0.04	996	0.62
3508256	1.80	17	0.16	0.13	892	0.65
3508257	2.23	16	0.17	0.11	731	0.64
3508258	1.33	18	0.14	0.47	889	0.64
3508259	0.88	23	0.17	4.90	363	0.58
3508260	2.05	56	0.11	0.36	307	0.46
3508261	1.64	16	0.14	0.34	798	0.58
3508262	1.47	18	0.12	0.10	984	0.61
3508263	1.41	18	0.14	0.29	1140	0.63
3508264	1.49	19	0.16	0.39	901	0.66
3508265	1.26	18	0.18	0.21	927	0.72
3508266	1.72	17	0.18	0.22	1053	0.63
3508267	1.44	20	0.12	0.13	906	0.58
3508268	1.63	20	0.13	0.20	884	0.62
3508269	1.37	20	0.14	0.27	845	0.62
3508270	0.04	<1	<0.01	0.01	76.2	<0.01
3508271	1.38	21	0.15	0.25	945	0.68
3508272	1.20	21	0.15	0.18	884	0.62
3508273	2.07	17	0.19	0.42	997	0.61
3508274	1.91	18	0.16	0.22	943	0.62
3508275	1.25	20	0.14	0.19	787	0.60
3508276	1.17	22	0.16	0.13	906	0.65

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508277	1.36	20	0.14	0.16	886	0.63
3508278	1.52	21	0.11	0.15	1007	0.63
3508279	1.57	21	0.14	0.23	1853	0.65
3508280	2.08	55	0.10	0.36	312	0.47
3508281	1.34	22	0.12	0.53	974	0.63
3508282	2.01	20	0.14	0.65	890	0.63
3508283	2.47	17	0.16	0.69	749	0.59
3508284	1.69	21	0.13	0.28	994	0.63
3508285	1.80	19	0.13	0.09	859	0.59
3508286	1.67	20	0.15	0.11	910	0.62
3508287	1.85	19	0.15	0.82	862	0.58
3508288	1.67	25	0.15	0.49	853	0.58
3508289	1.73	20	0.15	0.43	892	0.59
3508290	0.04	5	<0.01	0.01	80.6	<0.01
3508291	1.74	20	0.15	0.11	866	0.61
3508292	1.78	19	0.15	0.38	1016	0.60
3508293	1.67	19	0.15	0.15	915	0.66
3508294	1.52	20	0.18	0.14	873	0.65
3508295	1.51	20	0.18	0.14	879	0.64
3508296	1.62	21	0.16	0.40	783	0.64
3508297	1.57	22	0.16	0.11	838	0.67
3508298	1.68	21	0.14	0.20	833	0.61
3508299	1.58	21	0.14	0.32	866	0.62
3508300	2.08	59	0.11	0.39	318	0.47
3508301	1.15	24	0.15	0.27	837	0.67
3508302	1.49	23	0.15	1.66	834	0.63
3508303	1.73	18	0.16	0.63	907	0.63
3508304	1.19	22	0.12	0.37	833	0.62
3508305	2.02	23	0.08	0.97	519	0.62

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508306	1.16	23	0.09	1.70	1081	0.61
3508307	1.79	19	0.16	0.14	879	0.61
3508308	1.57	21	0.14	0.13	991	0.60
3508309	1.79	20	0.16	0.23	850	0.62
3508310	0.03	1	<0.01	0.02	79.7	<0.01
3508311	1.46	21	0.14	0.22	760	0.66
3508312	1.22	25	0.12	0.35	790	0.65
3508313	1.44	27	0.10	0.56	792	0.67
3508314	1.14	22	0.12	0.22	864	0.66
3508315	1.16	21	0.15	0.15	939	0.68
3508316	1.48	18	0.19	0.47	868	0.70
3508317	1.02	26	0.06	0.28	798	0.65
3508318	0.92	27	0.05	0.21	721	0.60
3508319	0.82	27	0.06	0.55	817	0.62
3508320	3.07	13	0.12	0.31	505	0.31
3508321	0.73	32	0.04	0.14	676	0.72
3508322	0.54	46	0.06	0.13	300	1.08
*Dup 3508285	1.86	20	0.13	0.10	858	0.60
*Rep 3508254	1.43	18	0.10	0.03	1011	0.61
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 520	1.37	72	0.08	0.95	97.3	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.7	<0.01
*Std OREAS 601	1.43	24	0.05	1.07	217	0.17
*Std OREAS 520	1.37	73	0.08	0.98	99.0	0.38
*Rep 3508285	1.78	20	0.12	0.09	849	0.59
*Std OREAS 601	1.43	23	0.05	1.13	225	0.17
*Std OREAS 520	1.37	76	0.08	1.03	102	0.38
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508247	486	102	13.4	0.36	7	0.5
3508248	482	106	13.3	0.44	7	0.9
3508249	533	106	14.4	0.46	5	0.4
3508250	4	3	0.8	0.02	<1	<0.1
3508251	522	108	10.9	0.42	11	1.2
3508252	519	103	15.9	0.52	5	0.4
3508253	530	78	14.5	0.19	8	0.3
3508254	501	90	16.3	0.35	14	0.5
3508255	511	89	16.7	0.38	13	0.5
3508256	473	97	13.3	0.60	11	0.4
3508257	483	99	13.7	0.40	7	0.5
3508258	501	96	18.4	0.41	5	0.3
3508259	476	119	14.9	0.51	13	0.4
3508260	120	76	72.6	0.44	23	3.5
3508261	466	98	17.6	0.40	5	0.4
3508262	475	90	16.4	0.46	7	0.3
3508263	524	87	17.3	0.44	5	0.3
3508264	525	93	15.6	0.38	6	0.3
3508265	515	93	14.3	0.65	5	0.3
3508266	479	82	16.6	0.80	7	0.3
3508267	493	79	13.0	0.34	5	0.2
3508268	498	77	13.2	0.37	4	0.2
3508269	478	90	12.6	0.55	7	0.3
3508270	3	4	0.5	0.04	<1	<0.1
3508271	476	94	20.6	0.45	6	0.4
3508272	502	93	14.9	0.39	8	0.3
3508273	415	89	15.0	0.38	8	0.3
3508274	451	99	15.0	0.52	8	0.4
3508275	479	96	13.8	0.28	7	0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508276	507	91	16.1	0.49	7	0.3
3508277	504	95	15.3	0.35	6	0.3
3508278	480	103	13.7	0.60	8	0.3
3508279	505	108	14.8	0.35	9	0.3
3508280	123	76	68.4	0.42	25	3.5
3508281	497	118	13.9	0.47	9	0.4
3508282	483	108	13.8	0.42	10	0.8
3508283	422	119	14.1	0.88	7	1.1
3508284	499	108	15.5	0.42	3	0.5
3508285	469	94	16.8	0.26	<1	0.2
3508286	468	93	16.2	0.19	2	0.3
3508287	450	91	15.0	0.52	3	0.4
3508288	457	88	17.9	0.48	4	0.3
3508289	462	104	15.3	1.27	3	0.3
3508290	4	3	1.3	0.03	9	<0.1
3508291	482	85	16.9	0.24	8	0.3
3508292	482	75	14.6	0.38	6	0.3
3508293	499	85	18.5	0.35	6	0.3
3508294	498	90	18.3	0.30	4	0.3
3508295	500	91	18.4	0.32	5	0.3
3508296	499	102	17.4	0.47	7	0.3
3508297	521	97	18.3	0.33	5	0.3
3508298	480	86	15.4	0.38	1	0.3
3508299	495	85	14.3	0.30	3	0.2
3508300	130	79	73.4	0.33	22	3.2
3508301	541	113	16.5	0.69	3	0.2
3508302	519	98	18.4	0.43	5	0.5
3508303	456	86	21.5	0.49	6	0.3
3508304	525	103	14.6	0.47	4	0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508305	528	114	13.6	0.46	3	1.1
3508306	521	87	14.1	0.56	9	0.4
3508307	479	84	15.0	0.29	3	0.2
3508308	506	90	12.1	0.37	3	0.2
3508309	464	95	13.3	0.35	4	0.3
3508310	3	3	1.3	0.06	<1	<0.1
3508311	505	98	17.5	0.44	3	0.2
3508312	537	99	16.3	0.59	<1	0.3
3508313	539	110	16.9	1.02	3	0.3
3508314	538	97	16.7	0.24	3	0.3
3508315	528	86	18.8	0.34	1	0.2
3508316	505	82	18.9	0.42	4	0.3
3508317	548	89	19.2	0.36	4	0.2
3508318	549	95	17.1	0.30	4	0.2
3508319	506	89	18.4	0.31	4	0.3
3508320	237	50	36.9	0.55	16	1.2
3508321	534	104	17.1	0.20	6	0.4
3508322	778	163	27.3	0.22	2	0.2
*Dup 3508285	475	95	17.0	0.28	1	0.2
*Rep 3508254	513	90	16.3	0.37	12	0.5
*Blk BLANK	<2	<1	0.7	0.05	<1	<0.1
*Std OREAS 520	253	22	127	0.48	149	1.2
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Std OREAS 601	27	1210	150	48.59	328	2.2
*Std OREAS 520	251	22	125	0.50	164	1.1
*Rep 3508285	468	94	16.4	0.25	<1	0.2
*Std OREAS 601	29	1273	152	50.52	282	2.2
*Std OREAS 520	258	22	121	0.47	145	1.0
*Blk BLANK	<2	<1	<0.5	0.02	<1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508247	<0.04	0.22	12.29	51.3	<1	20.5
3508248	<0.04	0.22	12.27	50.9	<1	21.1
3508249	<0.04	0.25	12.64	53.0	<1	20.4
3508250	<0.04	<0.02	1.12	2.6	<1	0.3
3508251	0.38	0.34	13.88	50.8	<1	21.0
3508252	0.08	0.23	10.90	49.0	<1	20.1
3508253	<0.04	0.16	9.59	49.9	<1	21.0
3508254	0.07	0.20	10.68	46.4	<1	21.1
3508255	0.06	0.21	10.78	48.8	<1	21.5
3508256	0.07	0.28	14.08	52.1	<1	21.1
3508257	0.17	0.13	11.25	46.7	<1	18.4
3508258	0.06	0.16	12.55	51.3	<1	21.5
3508259	0.43	0.11	15.41	99.3	3	24.7
3508260	0.68	0.35	74.48	16.9	13	19.2
3508261	0.13	0.24	12.16	48.3	<1	21.0
3508262	0.04	0.18	11.35	49.9	<1	21.8
3508263	0.08	0.21	11.82	55.9	<1	21.8
3508264	0.08	0.18	12.48	52.0	<1	21.2
3508265	0.05	0.25	13.96	49.0	<1	21.6
3508266	<0.04	0.21	13.48	51.0	<1	21.0
3508267	<0.04	0.12	9.04	48.6	<1	19.4
3508268	<0.04	0.15	11.18	52.9	<1	21.8
3508269	0.04	0.14	11.42	53.0	<1	20.4
3508270	<0.04	<0.02	0.95	2.8	<1	0.4
3508271	0.05	0.15	13.96	55.0	<1	21.6
3508272	0.04	0.18	12.28	54.7	<1	21.5
3508273	<0.04	0.14	16.29	50.7	<1	21.2
3508274	0.06	0.13	14.12	43.4	<1	20.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508275	<0.04	0.13	11.98	48.3	<1	20.9
3508276	<0.04	0.16	13.88	48.7	<1	20.9
3508277	<0.04	0.14	11.52	48.6	<1	20.7
3508278	<0.04	0.22	10.58	49.1	<1	21.2
3508279	<0.04	0.23	12.07	54.8	<1	21.9
3508280	0.65	0.40	73.29	17.7	14	20.6
3508281	0.07	0.20	10.75	59.8	1	21.6
3508282	0.11	0.19	12.00	50.6	1	20.5
3508283	0.13	0.40	13.12	45.4	<1	20.8
3508284	0.05	0.20	11.93	47.6	<1	21.5
3508285	<0.04	0.13	12.14	44.9	<1	19.7
3508286	<0.04	0.11	13.77	42.8	<1	20.0
3508287	0.08	0.17	13.23	44.4	<1	19.1
3508288	0.05	0.16	14.36	45.5	<1	20.2
3508289	0.05	0.29	13.59	44.2	<1	20.5
3508290	<0.04	<0.02	1.22	2.3	<1	0.4
3508291	<0.04	0.09	14.07	44.3	<1	20.0
3508292	0.06	0.09	13.43	39.9	<1	19.6
3508293	<0.04	0.11	14.78	42.1	<1	20.6
3508294	<0.04	0.12	15.66	43.9	<1	19.7
3508295	<0.04	0.11	15.15	43.4	<1	20.5
3508296	0.06	0.12	14.89	43.9	<1	19.4
3508297	<0.04	0.11	14.24	46.3	<1	20.0
3508298	<0.04	0.12	13.09	42.9	<1	19.5
3508299	0.04	0.11	12.43	44.1	<1	20.4
3508300	0.71	0.24	72.44	16.0	13	17.2
3508301	<0.04	0.17	12.78	43.8	<1	19.0
3508302	0.21	0.10	13.19	53.8	<1	21.1
3508303	0.09	0.10	15.32	43.6	<1	21.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508304	0.06	0.13	11.06	44.8	<1	20.2
3508305	0.18	0.20	10.31	44.4	<1	21.3
3508306	0.17	0.13	9.62	61.9	<1	22.1
3508307	<0.04	0.11	13.28	41.5	<1	20.9
3508308	<0.04	0.12	11.57	41.7	<1	20.2
3508309	<0.04	0.14	12.84	44.8	<1	20.7
3508310	<0.04	<0.02	1.03	2.0	<1	0.5
3508311	<0.04	0.15	12.69	42.8	<1	19.9
3508312	<0.04	0.19	11.56	44.1	<1	19.5
3508313	0.06	0.26	12.46	48.7	<1	20.3
3508314	<0.04	0.11	11.87	43.6	<1	20.3
3508315	<0.04	0.12	13.33	44.3	<1	21.2
3508316	0.05	0.13	17.98	45.7	<1	21.4
3508317	<0.04	0.12	10.17	46.0	<1	20.1
3508318	0.04	0.12	9.70	47.2	<1	21.2
3508319	<0.04	0.13	9.07	54.1	<1	20.3
3508320	0.16	0.21	20.34	15.1	1	18.9
3508321	0.04	0.12	7.47	54.3	<1	21.9
3508322	<0.04	0.15	10.13	72.6	<1	24.0
*Dup 3508285	<0.04	0.14	13.01	44.8	<1	21.4
*Rep 3508254	0.07	0.19	10.79	47.5	<1	21.4
*Blk BLANK	<0.04	<0.02	0.07	<0.1	<1	0.2
*Std OREAS 520	2.90	0.13	89.53	201	<1	19.2
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.98	7.95	61.79	5.6	7	21.8
*Std OREAS 520	2.81	0.17	87.71	203	<1	19.7
*Rep 3508285	<0.04	0.14	12.28	41.4	<1	19.5
*Std OREAS 601	20.19	7.35	65.66	5.9	8	19.8
*Std OREAS 520	2.98	0.09	84.49	185	<1	18.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (1-76)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05201

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.1

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508247	0.76	0.07	5.4	0.20	0.58	1.1
3508248	0.74	0.07	5.5	0.21	0.46	1.2
3508249	0.86	0.07	5.4	0.21	0.71	1.4
3508250	0.05	<0.02	1.3	0.02	0.07	0.1
3508251	0.69	0.07	6.4	0.20	1.15	1.0
3508252	0.92	0.07	4.7	0.21	0.51	1.0
3508253	0.83	0.06	4.1	0.19	0.46	0.7
3508254	0.90	0.07	4.7	0.21	3.21	0.9
3508255	0.92	0.07	4.6	0.21	2.92	0.9
3508256	0.80	0.08	6.3	0.21	0.61	1.7
3508257	0.63	0.06	5.1	0.17	1.50	1.3
3508258	0.92	0.07	5.5	0.22	1.41	1.1
3508259	0.76	0.07	6.6	0.22	4.23	1.6
3508260	2.59	0.08	38.2	0.37	105	21.1
3508261	0.92	0.07	5.4	0.21	1.73	1.5
3508262	0.96	0.06	4.9	0.21	0.70	1.1
3508263	0.96	0.08	5.2	0.22	1.50	1.2
3508264	0.88	0.07	5.5	0.22	1.23	1.2
3508265	0.86	0.08	6.1	0.22	0.97	1.1
3508266	0.80	0.07	6.0	0.21	1.02	1.4
3508267	0.69	0.05	4.0	0.17	0.79	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508268	0.77	0.06	4.9	0.20	0.95	0.9
3508269	0.72	0.07	5.1	0.19	1.46	1.0
3508270	0.04	<0.02	1.2	0.02	<0.05	0.1
3508271	1.05	0.09	6.2	0.24	1.56	2.9
3508272	0.87	0.07	5.4	0.22	0.84	1.0
3508273	0.80	0.08	7.5	0.22	1.30	2.9
3508274	0.85	0.07	6.4	0.21	1.17	2.0
3508275	0.84	0.06	5.3	0.20	0.83	0.9
3508276	0.97	0.08	6.0	0.24	2.04	1.5
3508277	0.82	0.06	5.1	0.20	0.85	1.0
3508278	0.81	0.07	4.6	0.19	1.01	1.0
3508279	0.84	0.07	5.3	0.21	0.81	1.1
3508280	2.52	0.08	37.3	0.38	105	21.7
3508281	0.82	0.07	4.6	0.21	1.13	1.0
3508282	0.76	0.07	5.3	0.20	1.51	1.6
3508283	0.72	0.06	6.1	0.19	16.04	2.3
3508284	0.79	0.06	5.4	0.23	10.38	1.4
3508285	0.82	0.06	5.7	0.23	0.84	1.0
3508286	0.80	0.06	6.4	0.24	0.61	1.2
3508287	0.72	0.06	6.1	0.21	1.17	1.1
3508288	0.85	0.07	6.8	0.23	1.82	1.8
3508289	0.76	0.10	6.5	0.22	1.00	1.2
3508290	0.03	<0.02	1.4	0.02	0.07	0.2
3508291	0.83	0.06	6.5	0.24	1.13	1.5
3508292	0.73	0.06	6.4	0.22	0.78	1.0
3508293	0.91	0.07	6.8	0.25	1.53	1.8
3508294	0.90	0.06	7.3	0.24	1.05	1.7
3508295	0.88	0.06	7.1	0.23	0.97	1.9
3508296	0.87	0.07	7.0	0.24	1.09	1.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508297	0.91	0.07	6.5	0.24	2.25	1.9
3508298	0.77	0.06	6.0	0.23	0.85	1.6
3508299	0.73	0.06	5.6	0.22	1.08	1.0
3508300	2.39	0.07	36.9	0.40	103	20.5
3508301	0.85	0.07	5.6	0.24	0.92	1.1
3508302	0.86	0.08	6.1	0.22	2.33	2.0
3508303	0.94	0.08	7.3	0.23	1.21	3.0
3508304	0.79	0.06	5.0	0.21	0.73	1.1
3508305	0.75	0.06	5.2	0.20	40.18	1.3
3508306	0.74	0.10	4.2	0.21	1.00	1.0
3508307	0.75	0.06	6.1	0.21	1.41	1.5
3508308	0.66	0.06	5.8	0.20	0.73	0.7
3508309	0.66	0.06	6.0	0.20	0.68	1.7
3508310	0.03	<0.02	1.2	0.02	0.18	0.1
3508311	0.84	0.06	5.9	0.22	0.85	2.2
3508312	0.81	0.07	5.2	0.20	0.96	1.9
3508313	0.83	0.08	6.0	0.21	0.90	2.4
3508314	0.84	0.06	5.3	0.21	0.75	1.8
3508315	0.94	0.07	6.0	0.23	0.55	2.3
3508316	0.95	0.08	8.6	0.23	5.76	3.4
3508317	0.94	0.08	4.4	0.22	1.08	1.7
3508318	0.90	0.07	4.3	0.21	2.33	1.4
3508319	0.92	0.07	3.9	0.20	3.53	1.5
3508320	1.36	0.10	9.9	0.36	11.51	3.3
3508321	1.01	0.07	2.9	0.20	0.88	1.4
3508322	1.51	0.11	3.7	0.27	0.77	0.8
*Dup 3508285	0.85	0.06	6.0	0.24	0.97	1.1
*Rep 3508254	0.91	0.07	4.6	0.21	3.26	0.9
*Blk BLANK	0.03	<0.02	<0.1	<0.01	0.06	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (1-76)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05201

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	3.91	0.13	89.8	0.37	67.03	5.6
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.40	1.79	31.4	0.11	4.02	13.0
*Std OREAS 520	3.62	0.12	86.9	0.38	68.72	5.0
*Rep 3508285	0.82	0.06	5.7	0.23	0.86	1.1
*Std OREAS 601	4.22	1.90	32.4	0.11	3.75	14.1
*Std OREAS 520	3.67	0.12	86.7	0.39	66.23	5.2
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508247	3.2	38.4	37.4	<2	2.13	0.7
3508248	2.8	36.2	37.4	<2	2.02	0.6
3508249	3.1	35.1	41.0	<2	1.44	0.6
3508250	0.6	0.5	0.5	<2	0.08	<0.3
3508251	15.4	36.5	36.1	<2	2.05	0.6
3508252	3.2	36.1	41.5	<2	1.67	0.5
3508253	3.4	33.6	39.2	<2	2.31	0.6
3508254	3.9	28.1	39.1	<2	3.07	0.7
3508255	3.8	27.9	40.6	<2	3.26	0.7
3508256	4.3	28.2	37.6	<2	2.79	0.7
3508257	3.6	21.1	32.6	2	1.50	0.4
3508258	3.2	38.3	38.1	3	2.17	0.7
3508259	6.6	64.4	33.3	20	2.60	1.1
3508260	20.7	202	15.6	3	2.19	3.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508261	3.9	42.3	35.7	<2	7.88	0.7
3508262	2.8	35.4	38.8	<2	6.57	0.6
3508263	3.1	25.8	39.3	<2	7.25	0.7
3508264	2.9	25.6	40.3	<2	4.34	0.7
3508265	2.9	29.5	42.0	<2	2.42	0.7
3508266	2.8	29.7	38.1	<2	2.99	0.6
3508267	2.1	24.2	38.4	<2	1.67	0.4
3508268	2.0	27.3	40.9	<2	1.73	0.5
3508269	2.0	30.7	38.5	<2	2.04	0.7
3508270	0.6	0.5	0.6	<2	0.09	<0.3
3508271	3.1	31.2	40.9	<2	3.22	0.9
3508272	2.4	36.3	43.2	<2	1.43	0.6
3508273	2.3	32.2	36.0	<2	3.34	1.0
3508274	1.9	38.0	37.9	<2	2.68	0.7
3508275	1.8	46.0	40.4	<2	1.66	0.5
3508276	1.9	36.0	48.1	<2	2.23	0.8
3508277	1.8	44.5	42.7	<2	1.94	0.6
3508278	2.5	44.5	43.8	<2	2.77	0.6
3508279	2.1	29.6	41.2	<2	3.49	0.5
3508280	20.4	196	16.9	3	2.19	3.8
3508281	2.6	42.4	44.5	<2	3.05	0.7
3508282	3.1	40.8	42.6	2	2.79	0.6
3508283	3.6	48.4	36.2	<2	1.61	0.6
3508284	3.0	34.0	34.2	<2	0.91	0.5
3508285	2.2	24.9	33.7	<2	0.51	0.4
3508286	2.2	24.8	33.5	<2	0.82	0.5
3508287	2.9	30.3	31.4	<2	1.39	0.5
3508288	3.5	33.4	32.2	<2	1.11	0.7
3508289	2.9	31.6	33.9	<2	1.23	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508290	0.8	0.4	<0.5	<2	<0.05	<0.3
3508291	2.0	31.6	35.4	<2	1.82	0.5
3508292	2.8	25.3	32.1	<2	2.81	0.5
3508293	2.5	28.2	35.7	<2	2.29	0.6
3508294	2.4	34.0	33.8	<2	1.33	0.5
3508295	2.4	37.0	34.7	<2	1.27	0.6
3508296	2.4	33.9	36.6	<2	1.95	0.7
3508297	1.8	27.3	37.6	<2	1.42	0.6
3508298	1.9	27.1	34.8	<2	1.30	0.6
3508299	2.1	27.1	38.2	<2	2.36	0.7
3508300	23.7	189	15.4	2	2.09	3.2
3508301	2.1	29.9	40.1	<2	1.10	0.7
3508302	5.5	29.7	38.0	<2	1.57	0.8
3508303	3.3	29.4	32.9	<2	2.41	0.8
3508304	2.9	35.7	38.6	<2	0.98	0.6
3508305	3.4	35.6	40.0	<2	0.81	0.6
3508306	3.3	16.5	38.7	<2	2.60	0.7
3508307	1.8	26.3	31.8	<2	0.84	0.5
3508308	2.2	24.0	35.9	<2	0.85	0.5
3508309	1.8	26.8	35.7	<2	0.71	0.5
3508310	0.9	0.3	<0.5	<2	<0.05	<0.3
3508311	2.0	27.1	36.0	<2	0.89	0.6
3508312	1.7	27.4	38.4	<2	0.69	0.7
3508313	4.2	24.5	41.7	<2	0.99	0.8
3508314	2.1	28.7	38.0	<2	1.30	0.6
3508315	2.1	33.6	36.3	<2	0.71	0.6
3508316	2.2	37.2	33.5	<2	1.17	0.7
3508317	2.1	31.3	41.6	<2	1.51	1.0
3508318	1.8	32.1	42.8	<2	1.09	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (1-76)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05201

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508319	2.5	33.0	42.8	<2	0.91	0.7
3508320	7.3	81.3	10.4	3	0.67	2.0
3508321	2.8	32.2	51.8	<2	2.03	0.8
3508322	1.1	7.6	68.2	<2	0.42	1.1
*Dup 3508285	2.1	25.5	34.5	<2	0.53	0.5
*Rep 3508254	3.9	28.8	39.4	<2	3.18	0.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.1	113	19.4	2	3.07	4.9
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	318	97.1	5.6	12	31.22	4.2
*Std OREAS 520	6.4	115	19.7	<2	3.26	4.7
*Rep 3508285	2.0	24.1	32.8	<2	0.51	0.4
*Std OREAS 601	297	89.6	5.8	10	29.13	4.0
*Std OREAS 520	7.0	106	18.6	<2	2.86	4.1
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508247	0.08	0.53	0.07	<0.2	0.15	0.15
3508248	0.08	0.53	0.06	0.2	0.14	0.27
3508249	0.09	0.58	0.08	0.2	0.15	0.16
3508250	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508251	0.06	0.54	0.10	0.2	0.15	0.61
3508252	0.07	0.52	0.09	<0.2	0.15	0.10
3508253	0.05	0.48	<0.05	<0.2	0.15	0.07

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508254	0.06	0.50	0.07	<0.2	0.12	0.22
3508255	0.06	0.52	0.08	<0.2	0.12	0.23
3508256	0.10	0.56	0.10	0.3	0.12	0.17
3508257	0.08	0.45	0.17	0.2	0.09	0.17
3508258	0.07	0.53	0.17	<0.2	0.16	0.11
3508259	0.10	0.59	1.94	0.4	0.37	0.21
3508260	1.48	0.90	0.26	19.8	0.99	5.34
3508261	0.09	0.49	0.15	0.2	0.18	0.37
3508262	0.08	0.53	0.10	<0.2	0.15	0.08
3508263	0.08	0.54	0.11	0.2	0.11	0.12
3508264	0.07	0.56	0.09	<0.2	0.12	0.12
3508265	0.06	0.60	0.07	<0.2	0.14	0.10
3508266	0.09	0.55	0.10	0.3	0.13	0.17
3508267	0.05	0.44	0.07	<0.2	0.11	0.08
3508268	0.06	0.52	0.07	<0.2	0.13	0.08
3508269	0.06	0.52	0.12	<0.2	0.14	0.10
3508270	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508271	0.16	0.60	0.10	0.4	0.13	0.26
3508272	0.06	0.57	0.06	<0.2	0.17	0.12
3508273	0.15	0.59	0.09	0.6	0.13	0.27
3508274	0.11	0.56	0.09	0.4	0.15	0.22
3508275	0.06	0.53	0.11	<0.2	0.19	0.09
3508276	0.10	0.64	0.09	0.4	0.14	0.21
3508277	0.07	0.52	0.08	<0.2	0.18	0.11
3508278	0.07	0.50	0.10	<0.2	0.17	0.12
3508279	0.07	0.54	0.09	0.2	0.12	0.12
3508280	1.47	0.91	0.26	19.9	0.97	5.51
3508281	0.07	0.53	0.14	<0.2	0.17	0.12
3508282	0.07	0.54	0.14	<0.2	0.18	0.30

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508283	0.08	0.52	0.09	<0.2	0.19	0.37
3508284	0.12	0.52	0.05	<0.2	0.14	0.16
3508285	0.09	0.54	<0.05	<0.2	0.11	0.07
3508286	0.10	0.56	<0.05	<0.2	0.11	0.07
3508287	0.08	0.53	0.07	<0.2	0.14	0.11
3508288	0.11	0.55	0.07	0.5	0.15	0.23
3508289	0.08	0.54	0.10	0.2	0.14	0.13
3508290	<0.05	<0.05	<0.05	<0.2	<0.02	0.13
3508291	0.09	0.59	<0.05	0.2	0.13	0.13
3508292	0.06	0.53	0.07	<0.2	0.11	0.14
3508293	0.10	0.60	0.05	0.3	0.12	0.17
3508294	0.11	0.61	<0.05	0.3	0.15	0.18
3508295	0.11	0.59	<0.05	0.3	0.15	0.17
3508296	0.11	0.59	0.08	0.4	0.14	0.19
3508297	0.12	0.58	<0.05	0.4	0.12	0.21
3508298	0.09	0.54	0.06	0.3	0.13	0.13
3508299	0.07	0.55	0.07	<0.2	0.12	0.08
3508300	1.42	0.87	0.23	19.9	0.94	5.13
3508301	0.07	0.60	0.09	0.2	0.14	0.13
3508302	0.11	0.55	0.18	0.3	0.13	0.20
3508303	0.15	0.56	0.09	0.5	0.12	0.25
3508304	0.07	0.52	0.07	<0.2	0.15	0.09
3508305	0.06	0.50	0.09	<0.2	0.15	0.65
3508306	0.06	0.50	0.19	<0.2	0.07	0.15
3508307	0.09	0.55	0.07	0.2	0.12	0.10
3508308	<0.05	0.52	0.05	<0.2	0.10	0.07
3508309	0.09	0.53	<0.05	0.2	0.11	0.11
3508310	<0.05	<0.05	<0.05	<0.2	<0.02	0.14
3508311	0.12	0.55	0.06	0.2	0.11	0.12

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (1-76)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05201

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508312	0.10	0.51	0.06	0.2	0.12	0.12
3508313	0.11	0.56	0.14	0.2	0.10	0.30
3508314	0.10	0.54	0.06	<0.2	0.12	0.10
3508315	0.13	0.58	0.05	<0.2	0.15	0.09
3508316	0.17	0.61	0.07	0.4	0.14	0.19
3508317	0.10	0.54	0.06	<0.2	0.14	0.10
3508318	0.09	0.50	0.06	0.3	0.14	0.15
3508319	0.08	0.49	0.07	<0.2	0.15	0.13
3508320	0.19	0.55	<0.05	1.4	0.24	1.23
3508321	0.09	0.48	0.08	<0.2	0.14	0.11
3508322	<0.05	0.67	0.07	0.2	0.03	0.11
*Dup 3508285	0.09	0.57	<0.05	<0.2	0.11	0.08
*Rep 3508254	0.07	0.52	0.07	<0.2	0.12	0.22
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.41	0.73	0.39	10.3	0.27	18.39
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.96	0.61	14.91	10.7	1.15	3.81
*Std OREAS 520	0.38	0.71	0.36	9.4	0.24	17.18
*Rep 3508285	0.08	0.52	<0.05	<0.2	0.10	0.07
*Std OREAS 601	1.00	0.56	14.44	11.4	1.15	4.01
*Std OREAS 520	0.40	0.71	0.35	10.2	0.25	18.05
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508247	1.0	16.9	1.4
3508248	0.9	16.5	1.4
3508249	0.6	17.7	1.5
3508250	<0.1	2.6	0.1
3508251	1.3	16.2	1.4
3508252	1.0	16.4	1.5
3508253	0.8	15.1	1.4
3508254	1.5	16.1	1.5
3508255	1.5	16.6	1.5
3508256	1.3	17.4	1.5
3508257	1.5	14.4	1.2
3508258	1.0	17.0	1.5
3508259	3.4	18.2	1.5
3508260	4.8	27.8	2.6
3508261	1.5	16.0	1.4
3508262	0.9	16.5	1.5
3508263	1.0	17.1	1.5
3508264	0.8	17.2	1.5
3508265	1.0	18.1	1.5
3508266	1.0	17.2	1.4
3508267	0.5	14.1	1.2
3508268	0.7	16.2	1.4
3508269	1.0	15.8	1.3
3508270	<0.1	2.4	0.1
3508271	1.0	19.0	1.6
3508272	0.6	17.4	1.5
3508273	1.6	18.0	1.5
3508274	1.6	16.8	1.4
3508275	0.9	16.2	1.4
3508276	1.2	19.5	1.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05201

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508277	1.1	16.1	1.4
3508278	1.4	15.5	1.4
3508279	1.7	16.6	1.4
3508280	4.5	28.5	2.7
3508281	1.9	16.4	1.4
3508282	1.8	16.3	1.4
3508283	1.3	16.0	1.3
3508284	0.6	14.9	1.4
3508285	0.4	14.9	1.4
3508286	0.3	15.9	1.4
3508287	0.8	14.7	1.3
3508288	0.7	15.6	1.4
3508289	0.6	15.3	1.4
3508290	<0.1	2.3	0.1
3508291	0.8	15.9	1.5
3508292	0.9	15.1	1.3
3508293	0.9	17.4	1.5
3508294	0.5	15.9	1.5
3508295	0.5	17.0	1.4
3508296	0.8	16.6	1.5
3508297	0.8	16.2	1.5
3508298	0.5	15.6	1.4
3508299	0.6	16.1	1.4
3508300	4.2	23.8	2.4
3508301	0.8	16.2	1.4
3508302	2.0	15.8	1.4
3508303	1.3	16.2	1.4
3508304	0.6	14.7	1.3
3508305	1.1	14.1	1.2
3508306	1.8	14.3	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05201

Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (1-76)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508307	0.3	15.0	1.3
3508308	0.4	14.7	1.2
3508309	0.4	15.1	1.2
3508310	<0.1	2.1	0.1
3508311	0.5	15.5	1.3
3508312	0.4	14.2	1.2
3508313	0.6	15.9	1.4
3508314	0.6	14.4	1.3
3508315	0.4	15.2	1.4
3508316	0.8	16.8	1.4
3508317	0.8	14.5	1.3
3508318	0.7	14.0	1.3
3508319	0.7	13.2	1.2
3508320	1.0	17.5	2.1
3508321	0.9	14.4	1.3
3508322	0.1	19.9	1.7
*Dup 3508285	0.4	15.6	1.4
*Rep 3508254	1.5	16.4	1.5
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	47.4	22.6	2.4
*Blk BLANK	<0.1	0.2	<0.1
*Std OREAS 601	5.6	12.0	0.7
*Std OREAS 520	46.8	22.0	2.3
*Rep 3508285	0.4	14.9	1.4
*Std OREAS 601	5.9	10.8	0.6
*Std OREAS 520	44.4	20.8	2.2
*Blk BLANK	<0.1	<0.1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (1-76)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05201

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05203

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	19-Oct-2020
Project	MT MILLIGAN	Date Analysed	22-Oct-2020 - 02-Nov-2020
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core	Date Completed	02-Nov-2020
		SGS Order Number	BBM20-05203
Number of Samples	76		

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
71	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508323	5.55	271	6.88	273	9.84	22
3508324	5.66	51	7.42	504	9.35	17
3508325	2.90	7	9.19	1259	3.70	3
3508326	3.56	17	9.36	1838	3.44	3
3508327	5.39	46	7.61	1106	6.85	2
3508328	4.47	85	7.26	434	9.38	17
3508329	5.19	24	8.83	766	7.90	2
3508330	1.14	5	0.09	16	>15.00	1
3508331	4.89	28	8.86	1308	7.02	2
3508332	4.93	31	8.94	1227	6.75	2
3508333	5.00	25	9.34	1262	7.22	1
3508334	4.99	36	9.06	938	7.98	3
3508335	4.99	42	9.35	931	7.65	2
3508336	5.11	30	8.04	733	8.30	5
3508337	5.32	52	5.90	454	9.24	9
3508338	5.20	55	7.35	417	9.09	4
3508339	5.08	46	7.96	568	8.00	4
3508340	0.15	235	7.72	1046	2.59	75
3508341	5.19	19	9.28	563	8.64	3
3508342	5.09	38	8.99	707	8.53	2
3508343	5.53	55	8.66	588	8.96	3
3508344	4.44	23	8.51	1448	4.79	85
3508345	3.56	17	8.59	1200	5.42	85
3508346	3.51	19	8.54	1459	5.32	85
3508347	5.03	33	7.10	426	9.36	9
3508348	5.15	46	7.28	739	8.70	9
3508349	5.75	87	7.05	509	9.03	21
3508350	1.17	9	0.10	17	>15.00	1
3508351	5.46	55	6.78	508	9.54	11

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508352	5.17	141	6.45	640	8.31	36
3508353	5.63	60	5.85	541	9.55	13
3508354	5.77	19	8.22	759	9.42	9
3508355	5.23	29	8.20	999	8.71	5
3508356	5.03	9	8.49	1116	8.15	7
3508357	5.15	10	8.89	1342	7.84	2
3508358	5.27	23	8.64	1195	8.36	4
3508359	4.92	48	8.48	1090	8.38	5
3508360	0.15	219	7.83	1000	2.58	75
3508361	5.38	19	8.88	682	8.12	9
3508362	5.20	41	8.76	649	8.01	8
3508363	5.13	20	9.08	741	7.83	6
3508364	5.25	22	6.63	391	8.76	18
3508365	3.77	25	7.63	595	8.75	19
3508366	3.03	20	9.42	876	5.36	5
3508367	3.01	13	9.47	999	4.97	5
3508368	5.37	39	6.00	417	9.09	19
3508369	5.54	40	7.72	433	8.82	11
3508370	1.19	7	0.09	13	>15.00	<1
3508371	5.82	33	6.06	324	9.43	16
3508372	5.51	32	7.31	374	9.20	20
3508373	5.53	42	7.24	417	8.87	13
3508374	5.44	30	8.89	593	8.38	10
3508375	5.44	46	8.86	589	8.30	11
3508376	5.43	45	7.10	481	8.04	103
3508377	5.61	30	7.53	619	8.75	17
3508378	4.95	46	8.91	433	7.99	9
3508379	5.41	24	9.05	607	7.95	7
3508380	0.15	230	7.81	1019	2.58	74

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508381	3.08	43	7.76	471	9.29	8
3508382	5.63	12	8.53	1210	6.39	24
3508383	5.60	15	8.72	1348	6.22	18
3508384	3.46	8	9.41	789	4.07	5
3508385	5.09	36	7.13	440	8.82	18
3508386	5.46	49	6.28	428	9.14	17
3508387	4.82	13	8.36	499	7.99	11
3508388	5.26	43	7.31	306	10.01	17
3508389	5.35	37	7.13	419	9.35	16
3508390	1.22	6	0.08	17	>15.00	1
3508391	5.01	34	8.67	573	7.99	7
3508392	5.22	54	7.50	352	9.00	20
3508393	5.24	33	7.29	347	8.70	17
3508394	4.91	49	9.03	165	7.80	7
3508395	5.27	45	7.59	356	9.36	14
3508396	5.23	30	6.50	182	9.89	24
3508397	5.32	29	7.36	160	10.23	21
3508398	5.38	20	6.60	184	9.90	23
*Dup 3508361	-	21	8.94	674	8.28	8
*Blk BLANK	-	-	<0.01	<1	0.01	<1
*Rep 3508373	-	-	7.25	422	8.74	15
*Std OREAS 601	-	-	6.34	2349	1.27	29
*Std OREAS 520	-	-	5.93	1241	3.88	34
*Std SL76	-	5640	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OXG123	-	986	-	-	-	-
*Rep 3508327	-	39	-	-	-	-
*Rep 3508356	-	12	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508384	-	9	-	-	-	-
*Std GS-9B	-	9720	-	-	-	-
*Std SL76	-	6110	-	-	-	-
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OREAS 520	-	-	5.79	765	3.88	35
*Std OREAS 601	-	-	6.60	867	1.31	27
*Std OREAS 601	-	-	6.25	3351	1.28	42
*Rep 3508352	-	-	6.45	628	8.33	39
*Std OREAS 520	-	-	5.73	1673	3.98	36
*Blk BLANK	-	-	<0.01	<1	<0.01	<1

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508323	523	11.38	0.75	16	4.89	1871
3508324	328	10.61	1.27	17	4.87	1901
3508325	82.7	4.80	2.25	8	1.29	850
3508326	49.9	4.48	2.57	10	1.21	752
3508327	317	9.11	2.45	20	6.32	1868
3508328	804	8.65	0.71	8	4.37	1921
3508329	365	7.55	1.16	8	2.77	1389
3508330	2.5	0.21	0.02	<1	2.12	168
3508331	334	7.14	1.60	10	2.77	1330
3508332	348	6.80	1.55	9	2.63	1189
3508333	346	6.81	1.70	9	2.57	1168

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508334	475	7.52	1.47	9	2.92	1412
3508335	501	7.40	1.47	9	2.91	1395
3508336	489	9.15	1.36	11	3.51	1724
3508337	556	12.64	0.94	11	4.94	2347
3508338	849	10.85	1.07	13	4.23	1996
3508339	430	10.03	1.46	18	4.04	1861
3508340	2645	4.30	2.92	35	1.53	536
3508341	180	8.38	1.65	15	3.36	1488
3508342	284	9.10	1.83	16	3.78	1548
3508343	932	9.30	1.61	15	3.88	1672
3508344	225	6.65	2.97	11	3.23	1225
3508345	176	6.24	2.73	8	3.29	1194
3508346	194	6.77	2.55	10	3.31	1250
3508347	407	10.90	1.04	12	4.44	1968
3508348	405	10.05	1.42	13	3.96	1680
3508349	591	11.64	1.19	13	4.66	1818
3508350	3.7	0.22	0.02	<1	2.02	181
3508351	450	11.19	1.21	12	4.77	1924
3508352	366	11.49	0.95	12	4.90	1907
3508353	560	12.26	0.91	12	5.27	2093
3508354	291	10.50	1.61	16	4.26	1791
3508355	313	10.16	1.67	18	4.14	1743
3508356	166	9.26	1.68	16	3.80	1669
3508357	102	8.62	1.87	15	3.55	1467
3508358	259	8.46	1.67	14	3.47	1562
3508359	267	8.97	1.52	14	3.74	1628
3508360	2648	4.34	3.40	35	1.51	519
3508361	268	8.94	1.20	13	3.45	1472
3508362	592	8.54	1.31	12	3.48	1530

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508363	423	7.98	1.57	12	3.10	1611
3508364	348	10.38	1.00	12	4.41	2210
3508365	512	10.66	1.32	11	3.93	1940
3508366	214	5.91	1.12	9	2.06	1227
3508367	159	5.73	1.47	9	2.05	1233
3508368	325	12.23	0.96	10	4.69	2251
3508369	441	10.62	1.20	11	4.05	1832
3508370	2.6	0.18	0.01	<1	1.77	160
3508371	286	12.42	0.92	10	4.78	2165
3508372	439	11.16	1.08	12	4.39	1978
3508373	471	11.31	1.10	11	4.20	1965
3508374	426	8.66	1.28	12	3.49	1578
3508375	439	8.78	1.27	12	3.48	1571
3508376	605	9.64	1.15	8	4.85	1853
3508377	434	10.50	1.42	9	4.17	1862
3508378	371	7.73	0.73	7	2.92	1436
3508379	219	8.27	1.49	9	3.29	1438
3508380	2632	4.33	3.17	35	1.51	519
3508381	278	10.88	1.61	12	4.46	1680
3508382	132	6.67	2.38	6	2.76	1197
3508383	149	6.90	2.71	7	2.81	1205
3508384	213	5.50	0.98	8	1.48	804
3508385	358	11.40	1.21	12	4.52	1856
3508386	352	11.96	0.83	11	4.69	1885
3508387	158	8.22	0.82	10	3.49	1406
3508388	293	10.53	0.67	9	4.38	1662
3508389	214	10.73	0.83	9	4.33	1720
3508390	1.0	0.19	<0.01	<1	2.37	157
3508391	259	8.39	1.07	10	3.46	1361

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508392	585	10.47	0.92	10	4.16	1672
3508393	243	10.86	0.86	12	4.31	1791
3508394	461	7.92	0.45	8	2.95	1270
3508395	178	10.52	0.90	9	4.24	1664
3508396	150	11.30	0.67	8	4.83	1650
3508397	110	11.37	0.69	10	4.53	1653
3508398	117	12.47	0.65	9	4.71	1781
*Dup 3508361	277	9.21	1.19	12	3.57	1523
*Blk BLANK	0.7	0.01	<0.01	<1	<0.01	2
*Rep 3508373	475	11.34	1.10	11	4.22	1966
*Std OREAS 601	953	2.49	2.18	21	0.39	463
*Std OREAS 520	2879	14.94	3.60	18	1.19	2236
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Std OREAS 520	2913	>15.00	3.66	18	1.14	2282
*Std OREAS 601	1030	2.61	2.29	22	0.39	485
*Std OREAS 601	953	2.51	2.16	21	0.39	487
*Rep 3508352	361	11.46	0.95	12	4.93	1898
*Std OREAS 520	2924	>15.00	3.68	18	1.23	2383
*Blk BLANK	0.5	<0.01	<0.01	<1	<0.01	<2

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508323	0.74	28	0.11	0.20	789	0.76
3508324	0.79	26	0.14	0.31	729	0.77
3508325	4.38	4	0.20	0.39	780	0.39

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508326	4.12	4	0.19	0.25	764	0.38
3508327	0.99	14	0.05	0.22	560	0.63
3508328	1.62	20	0.16	0.48	1176	0.66
3508329	2.27	9	0.24	0.42	1197	0.60
3508330	0.04	<1	<0.01	0.01	77.3	<0.01
3508331	2.48	9	0.21	0.37	1066	0.61
3508332	2.56	9	0.19	0.31	1078	0.61
3508333	2.49	9	0.19	0.16	1000	0.59
3508334	1.96	10	0.12	0.47	945	0.58
3508335	1.92	9	0.12	0.45	911	0.59
3508336	1.50	13	0.07	0.21	881	0.65
3508337	0.89	20	0.06	0.32	688	0.90
3508338	1.06	17	0.11	0.53	857	0.82
3508339	1.30	14	0.11	0.35	893	0.80
3508340	2.07	54	0.11	0.39	312	0.46
3508341	1.16	13	0.12	0.07	1071	0.70
3508342	1.17	12	0.26	0.11	924	0.81
3508343	1.09	14	0.22	0.39	995	0.93
3508344	2.79	48	0.29	0.41	953	0.46
3508345	2.90	47	0.29	0.08	1160	0.45
3508346	3.01	47	0.29	0.46	1016	0.49
3508347	0.87	19	0.15	0.13	855	0.87
3508348	1.12	15	0.26	0.15	822	0.83
3508349	0.71	23	0.14	0.22	626	0.85
3508350	0.04	<1	<0.01	0.01	79.9	0.02
3508351	0.60	25	0.06	0.16	562	0.82
3508352	1.50	30	0.25	0.23	524	0.90
3508353	0.77	30	0.12	0.18	500	0.95
3508354	0.74	24	0.10	0.25	645	0.76

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508355	0.83	21	0.17	0.43	779	0.81
3508356	1.29	18	0.19	0.33	687	0.79
3508357	1.37	12	0.29	0.16	828	0.79
3508358	1.40	13	0.29	0.24	948	0.74
3508359	1.50	15	0.30	0.39	950	0.77
3508360	2.07	55	0.10	0.36	317	0.48
3508361	1.80	15	0.20	0.24	942	0.66
3508362	1.71	16	0.16	0.20	917	0.64
3508363	1.87	14	0.12	1.44	808	0.64
3508364	1.48	26	0.05	1.20	530	0.73
3508365	1.18	32	0.11	0.24	720	0.72
3508366	3.86	11	0.24	0.38	1170	0.47
3508367	3.79	10	0.23	0.13	1272	0.46
3508368	1.10	31	0.05	0.24	525	0.82
3508369	1.17	26	0.04	0.26	574	0.72
3508370	0.04	<1	<0.01	0.01	79.6	<0.01
3508371	0.83	27	0.04	0.30	474	0.82
3508372	0.86	26	0.07	1.25	580	0.73
3508373	1.03	23	0.09	0.53	642	0.78
3508374	1.48	16	0.16	0.90	982	0.59
3508375	1.50	16	0.17	0.99	984	0.60
3508376	1.36	30	0.17	1.05	668	0.65
3508377	1.08	24	0.17	0.23	753	0.75
3508378	2.36	12	0.21	0.54	1244	0.62
3508379	1.81	14	0.19	0.09	919	0.62
3508380	2.07	54	0.10	0.35	316	0.48
3508381	0.69	29	0.03	0.14	662	0.71
3508382	2.53	19	0.22	0.14	1051	0.46
3508383	2.40	20	0.23	0.15	1024	0.47

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508384	4.68	6	0.19	1.18	876	0.45
3508385	1.08	25	0.13	0.29	611	0.83
3508386	1.13	28	0.09	0.12	606	0.86
3508387	2.18	16	0.12	0.09	924	0.64
3508388	1.00	26	0.14	0.23	983	0.73
3508389	1.15	24	0.10	0.09	914	0.77
3508390	0.04	<1	<0.01	<0.01	73.7	<0.01
3508391	2.00	14	0.16	0.10	910	0.64
3508392	1.24	24	0.20	0.21	766	0.79
3508393	1.36	25	0.12	0.17	731	0.77
3508394	2.51	15	0.19	0.79	1092	0.61
3508395	0.93	28	0.04	0.33	725	0.67
3508396	0.74	31	0.03	0.05	559	0.72
3508397	0.71	31	0.02	0.06	622	0.69
3508398	0.77	32	0.03	0.09	546	0.77
*Dup 3508361	1.77	15	0.20	0.25	945	0.69
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Rep 3508373	1.04	23	0.09	0.52	623	0.78
*Std OREAS 601	1.46	22	0.05	1.05	227	0.18
*Std OREAS 520	1.38	73	0.07	0.93	101	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 520	1.39	78	0.07	1.02	102	0.38
*Std OREAS 601	1.52	25	0.05	1.12	238	0.18
*Std OREAS 601	1.44	25	0.05	1.11	223	0.18
*Rep 3508352	1.49	29	0.25	0.22	526	0.89
*Std OREAS 520	1.41	73	0.08	1.09	101	0.40
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508323	566	105	24.1	0.40	2	0.2
3508324	535	108	21.3	0.30	7	0.7
3508325	124	30	43.5	0.03	3	1.7
3508326	114	28	37.8	<0.02	2	1.8
3508327	368	102	26.0	0.24	2	0.4
3508328	455	83	26.4	0.79	2	0.5
3508329	397	55	20.7	0.38	2	0.6
3508330	3	3	1.3	<0.02	<1	<0.1
3508331	357	59	18.9	0.38	2	0.6
3508332	356	59	20.3	0.37	2	0.5
3508333	345	61	19.0	0.36	1	0.5
3508334	394	75	19.3	0.52	1	0.5
3508335	392	71	19.9	0.55	1	0.5
3508336	483	91	21.1	0.55	<1	0.5
3508337	680	116	29.7	0.64	2	0.4
3508338	620	102	26.9	0.92	4	0.4
3508339	565	93	28.3	0.53	2	0.5
3508340	125	78	69.8	0.42	26	3.2
3508341	451	80	23.5	0.23	2	0.4
3508342	488	78	27.2	0.33	4	0.4
3508343	502	84	31.2	1.06	3	0.5
3508344	264	77	33.7	0.28	4	1.4
3508345	260	74	35.9	0.22	3	1.3
3508346	289	85	36.6	0.23	3	1.3
3508347	602	110	24.7	0.49	2	0.4
3508348	544	100	21.8	0.42	4	0.3
3508349	635	121	26.2	0.55	4	0.3
3508350	5	4	2.0	0.03	<1	<0.1
3508351	609	110	26.5	0.42	4	0.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508352	601	117	29.2	0.41	6	0.5
3508353	697	122	28.7	0.59	3	0.2
3508354	564	106	22.9	0.34	3	0.3
3508355	544	105	21.5	0.35	5	0.3
3508356	480	88	23.9	0.24	5	0.4
3508357	426	85	21.0	0.13	3	0.3
3508358	426	81	21.0	0.30	3	0.4
3508359	453	85	22.5	0.35	2	0.4
3508360	120	75	73.8	0.50	24	3.2
3508361	421	74	22.2	0.31	4	0.4
3508362	400	80	24.5	0.69	2	0.4
3508363	378	70	26.1	0.41	5	0.5
3508364	546	86	30.9	0.35	3	0.5
3508365	515	91	29.6	0.66	3	0.4
3508366	259	69	49.5	0.30	4	1.4
3508367	250	70	44.9	0.35	4	1.5
3508368	590	118	40.4	0.46	2	0.5
3508369	525	104	31.0	0.54	3	0.4
3508370	3	4	1.5	0.07	<1	<0.1
3508371	601	126	36.3	0.30	2	0.4
3508372	552	119	30.4	0.36	3	0.4
3508373	573	101	29.1	0.46	4	0.4
3508374	408	74	20.4	0.34	3	0.6
3508375	411	75	20.6	0.41	3	0.6
3508376	456	89	25.1	0.52	3	0.4
3508377	512	99	33.1	0.34	2	0.4
3508378	360	59	21.2	0.37	4	0.7
3508379	381	68	21.8	0.36	3	0.5
3508380	118	74	71.6	0.44	26	3.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508381	532	91	24.3	0.25	2	0.3
3508382	285	41	39.8	0.14	4	1.3
3508383	292	43	40.6	0.15	3	1.3
3508384	156	28	63.7	0.15	4	1.6
3508385	576	87	27.5	0.45	4	0.4
3508386	620	76	31.7	0.27	2	0.4
3508387	390	55	25.1	0.17	3	0.5
3508388	523	82	27.5	0.28	5	0.4
3508389	540	79	28.0	0.22	3	0.4
3508390	<2	3	4.4	0.02	<1	<0.1
3508391	393	63	21.9	0.29	3	0.5
3508392	512	92	28.2	0.53	3	0.4
3508393	534	86	26.2	0.26	3	0.4
3508394	368	62	17.6	0.56	4	0.7
3508395	519	81	24.3	0.22	1	0.3
3508396	581	81	30.6	0.13	4	0.3
3508397	594	89	26.8	0.11	1	0.2
3508398	637	98	29.9	0.10	<1	0.3
*Dup 3508361	428	74	22.5	0.33	4	0.4
*Blk BLANK	<2	<1	<0.5	0.02	<1	<0.1
*Rep 3508373	556	101	34.3	0.44	4	0.4
*Std OREAS 601	27	1258	156	49.79	329	2.4
*Std OREAS 520	248	22	126	0.38	158	1.2
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Std OREAS 520	262	23	130	0.38	142	1.0
*Std OREAS 601	28	1298	154	53.57	295	2.0
*Std OREAS 601	28	1286	153	46.01	311	2.2
*Rep 3508352	615	114	29.2	0.41	3	0.5
*Std OREAS 520	280	22	127	0.37	160	1.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<2	1	<0.5	<0.02	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508323	<0.04	0.17	9.76	53.3	<1	22.5
3508324	0.06	0.25	10.41	55.2	1	21.1
3508325	<0.04	0.03	30.01	17.4	<1	20.0
3508326	<0.04	0.03	29.97	14.4	<1	19.3
3508327	<0.04	0.13	9.46	58.9	4	20.6
3508328	0.05	0.33	17.58	41.0	<1	22.7
3508329	0.05	0.09	21.12	28.4	<1	25.6
3508330	<0.04	<0.02	1.07	2.8	<1	0.2
3508331	<0.04	0.11	19.25	31.7	<1	24.2
3508332	<0.04	0.08	17.10	27.5	<1	24.7
3508333	<0.04	0.12	16.29	28.8	<1	25.0
3508334	0.05	0.15	14.17	41.8	<1	25.1
3508335	0.04	0.17	14.65	42.0	<1	25.3
3508336	<0.04	0.16	11.72	36.9	<1	24.3
3508337	<0.04	0.21	11.98	55.0	<1	23.2
3508338	0.05	0.19	13.07	55.9	<1	24.5
3508339	0.05	0.13	12.82	51.4	1	24.6
3508340	0.63	0.38	71.81	16.1	12	19.4
3508341	<0.04	0.09	11.92	36.9	<1	25.5
3508342	<0.04	0.10	16.90	41.9	1	24.5
3508343	0.13	0.21	16.31	40.1	<1	24.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508344	0.05	0.07	23.90	33.8	3	18.1
3508345	<0.04	0.07	23.91	29.7	3	18.1
3508346	0.05	0.07	23.79	43.6	3	18.9
3508347	<0.04	0.16	13.61	49.1	<1	24.3
3508348	<0.04	0.15	15.37	47.4	<1	25.1
3508349	<0.04	0.16	11.80	56.4	<1	23.0
3508350	<0.04	<0.02	0.98	2.7	<1	0.2
3508351	<0.04	0.17	8.83	55.5	<1	22.4
3508352	<0.04	0.10	17.33	54.4	<1	22.0
3508353	<0.04	0.15	10.43	46.2	<1	20.8
3508354	<0.04	0.17	10.32	46.4	<1	24.0
3508355	0.05	0.12	12.52	57.1	1	24.0
3508356	<0.04	0.08	14.39	42.0	<1	23.5
3508357	<0.04	0.08	17.60	39.7	1	24.2
3508358	<0.04	0.11	18.75	41.4	1	24.5
3508359	<0.04	0.12	19.41	50.3	<1	23.4
3508360	0.68	0.43	74.40	16.1	13	18.8
3508361	0.04	0.11	16.77	40.6	<1	22.0
3508362	<0.04	0.17	15.67	39.0	<1	21.2
3508363	0.20	0.11	14.82	38.6	1	22.0
3508364	0.16	0.13	11.21	52.4	<1	19.9
3508365	0.05	0.20	13.97	44.9	<1	22.4
3508366	0.04	0.08	30.01	30.0	<1	21.2
3508367	<0.04	0.07	30.24	24.4	<1	20.6
3508368	0.05	0.19	13.06	56.1	<1	22.0
3508369	<0.04	0.15	10.83	51.9	<1	22.2
3508370	<0.04	<0.02	1.14	4.3	<1	0.2
3508371	<0.04	0.18	11.10	57.4	<1	22.9
3508372	0.13	0.15	11.96	66.3	<1	22.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508373	0.08	0.17	12.11	58.7	<1	22.9
3508374	0.11	0.11	13.57	50.9	<1	22.0
3508375	0.11	0.10	13.86	51.6	<1	21.8
3508376	0.11	0.18	15.70	62.0	<1	20.7
3508377	0.04	0.19	14.93	52.4	<1	21.1
3508378	0.10	0.08	20.53	48.3	<1	24.2
3508379	<0.04	0.12	17.06	36.2	<1	22.3
3508380	0.66	0.39	71.80	16.6	13	19.4
3508381	<0.04	0.13	7.95	51.1	2	22.1
3508382	<0.04	0.05	25.34	33.1	2	19.7
3508383	<0.04	0.05	25.13	33.3	1	19.2
3508384	0.09	0.04	29.99	26.3	<1	19.7
3508385	0.05	0.14	12.87	55.3	<1	21.6
3508386	0.05	0.13	12.07	54.8	<1	21.8
3508387	<0.04	0.08	14.39	37.6	<1	21.4
3508388	0.05	0.13	13.04	52.9	<1	22.2
3508389	0.04	0.12	12.50	48.1	<1	22.8
3508390	<0.04	<0.02	1.02	3.6	<1	0.2
3508391	0.04	0.10	16.53	43.1	<1	22.8
3508392	0.06	0.19	14.87	55.5	<1	22.6
3508393	<0.04	0.13	13.47	51.4	<1	22.2
3508394	0.06	0.08	17.32	54.7	<1	23.4
3508395	0.04	0.12	8.63	56.2	<1	22.8
3508396	<0.04	0.11	8.29	57.7	<1	21.3
3508397	<0.04	0.13	7.45	49.4	<1	21.7
3508398	<0.04	0.12	9.23	52.8	<1	21.5
*Dup 3508361	<0.04	0.12	16.65	42.8	<1	22.8
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Rep 3508373	0.09	0.19	12.32	58.4	<1	23.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	20.21	8.28	62.04	5.8	7	22.2
*Std OREAS 520	2.97	0.16	83.27	211	<1	19.3
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 520	2.89	0.06	83.04	190	<1	18.8
*Std OREAS 601	20.32	7.58	60.22	5.5	6	21.7
*Std OREAS 601	19.23	7.72	63.77	5.4	7	21.5
*Rep 3508352	<0.04	0.12	17.51	54.1	<1	22.3
*Std OREAS 520	2.76	0.14	87.38	196	<1	19.6
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508323	1.19	0.09	3.9	0.23	0.71	1.4
3508324	1.06	0.09	4.3	0.23	66.41	1.6
3508325	1.14	0.05	14.6	0.27	3.59	9.5
3508326	1.08	0.02	14.9	0.26	3.89	9.7
3508327	1.06	0.09	4.6	0.17	1.16	4.4
3508328	1.28	0.13	8.2	0.26	3.26	4.4
3508329	0.95	0.10	10.6	0.21	3.57	4.7
3508330	0.04	<0.02	1.3	0.02	0.08	0.1
3508331	0.90	0.08	9.6	0.19	2.54	4.4
3508332	0.89	0.07	8.7	0.17	2.00	4.6
3508333	0.86	0.07	8.1	0.17	1.30	4.0
3508334	1.00	0.08	7.0	0.19	2.12	3.5
3508335	0.98	0.09	7.4	0.19	1.92	3.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508336	1.14	0.09	5.4	0.21	1.89	3.4
3508337	1.51	0.11	4.9	0.28	1.96	3.7
3508338	1.29	0.11	5.7	0.25	1.60	3.1
3508339	1.27	0.09	5.9	0.22	1.53	3.3
3508340	2.38	0.07	36.2	0.39	105	19.4
3508341	1.18	0.07	5.6	0.19	0.95	3.1
3508342	1.32	0.08	7.7	0.23	0.80	4.5
3508343	1.45	0.10	7.1	0.25	1.05	5.1
3508344	1.16	0.04	11.6	0.24	8.55	5.5
3508345	1.12	0.05	11.8	0.24	2.26	5.5
3508346	1.23	0.05	11.7	0.25	3.20	5.4
3508347	1.29	0.10	6.0	0.24	1.50	3.2
3508348	1.15	0.08	6.9	0.22	1.08	3.7
3508349	1.15	0.10	5.1	0.22	0.86	2.6
3508350	0.05	<0.02	1.1	0.02	0.06	0.4
3508351	1.26	0.11	3.6	0.22	0.78	2.1
3508352	1.33	0.09	7.9	0.24	1.26	3.6
3508353	1.28	0.10	4.3	0.21	1.34	2.5
3508354	1.15	0.08	4.5	0.19	0.90	2.2
3508355	1.07	0.09	5.7	0.20	2.17	2.6
3508356	1.17	0.08	6.6	0.21	1.89	3.3
3508357	1.01	0.06	8.3	0.20	1.14	3.4
3508358	1.04	0.08	8.8	0.22	2.94	3.8
3508359	1.12	0.07	9.0	0.24	4.82	4.0
3508360	2.51	0.07	37.7	0.39	104	19.2
3508361	1.07	0.07	7.9	0.24	1.35	3.0
3508362	1.19	0.08	7.2	0.23	1.40	3.1
3508363	1.00	0.07	7.1	0.22	2.72	2.9
3508364	1.48	0.08	4.6	0.28	5.61	2.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508365	1.40	0.09	6.3	0.26	6.78	2.8
3508366	1.26	0.05	15.4	0.23	3.21	8.8
3508367	1.30	0.04	15.6	0.22	3.39	9.2
3508368	1.79	0.10	5.4	0.32	2.43	3.1
3508369	1.44	0.08	4.7	0.25	1.54	2.6
3508370	0.04	<0.02	1.3	0.02	<0.05	0.1
3508371	1.73	0.10	4.5	0.30	1.55	2.8
3508372	1.47	0.09	5.0	0.28	1.11	2.3
3508373	1.36	0.09	5.3	0.26	0.86	2.4
3508374	0.97	0.07	6.3	0.21	1.70	2.2
3508375	1.00	0.07	6.4	0.22	1.73	2.2
3508376	1.15	0.11	7.4	0.25	2.10	3.4
3508377	1.33	0.08	6.5	0.29	1.12	2.6
3508378	1.07	0.08	10.1	0.25	3.10	5.3
3508379	1.10	0.07	8.2	0.22	2.30	3.8
3508380	2.46	0.08	36.2	0.40	105	19.5
3508381	1.21	0.08	3.3	0.21	1.13	1.6
3508382	1.36	0.05	12.8	0.24	2.35	6.8
3508383	1.26	0.05	12.7	0.23	1.91	6.8
3508384	1.43	0.03	14.8	0.29	3.72	9.3
3508385	1.38	0.09	5.5	0.27	1.18	2.4
3508386	1.50	0.10	5.2	0.26	1.54	3.0
3508387	1.23	0.08	6.9	0.23	2.22	4.2
3508388	1.29	0.09	5.7	0.25	1.62	2.4
3508389	1.38	0.09	5.4	0.25	1.89	3.2
3508390	0.11	<0.02	1.2	0.03	<0.05	0.1
3508391	1.16	0.08	7.9	0.24	2.07	4.3
3508392	1.24	0.09	6.5	0.27	1.77	2.6
3508393	1.32	0.10	6.0	0.26	1.72	3.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508394	0.91	0.08	8.6	0.21	2.90	4.8
3508395	1.24	0.08	3.5	0.23	1.53	1.9
3508396	1.49	0.09	3.2	0.25	0.90	1.7
3508397	1.17	0.08	2.7	0.22	0.61	1.3
3508398	1.33	0.08	3.5	0.24	0.85	1.8
*Dup 3508361	1.09	0.08	7.7	0.24	1.32	3.1
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508373	1.45	0.09	5.4	0.26	0.80	2.4
*Std OREAS 601	4.63	1.82	31.5	0.11	4.05	13.4
*Std OREAS 520	3.82	0.13	85.6	0.38	67.00	5.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 520	3.60	0.11	80.6	0.36	60.44	5.0
*Std OREAS 601	4.32	1.61	30.4	0.10	3.67	13.4
*Std OREAS 601	4.55	1.72	32.1	0.11	4.20	13.4
*Rep 3508352	1.32	0.09	7.9	0.23	1.36	3.6
*Std OREAS 520	3.88	0.13	87.1	0.38	67.02	5.3
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508323	2.1	22.7	47.8	<2	1.34	1.0
3508324	1.8	40.2	48.6	<2	1.07	0.7
3508325	2.3	36.8	10.3	<2	0.77	1.0
3508326	2.3	43.6	9.6	<2	0.71	1.0
3508327	1.6	88.9	23.9	<2	1.02	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508328	2.9	21.1	33.4	<2	1.70	1.5
3508329	3.3	36.0	21.4	<2	1.86	1.5
3508330	0.7	0.5	<0.5	<2	0.07	<0.3
3508331	3.2	43.0	20.2	<2	0.96	0.9
3508332	2.5	41.9	19.3	<2	0.68	1.0
3508333	2.9	42.4	18.4	<2	0.64	0.8
3508334	3.1	43.8	24.7	<2	0.75	1.0
3508335	3.0	46.4	24.4	<2	0.76	1.0
3508336	2.5	44.4	32.0	<2	0.72	1.0
3508337	1.9	30.0	47.4	<2	0.75	1.1
3508338	2.7	34.2	42.3	<2	1.08	1.0
3508339	5.3	46.8	35.2	<2	0.93	1.0
3508340	21.6	189	15.0	2	2.31	3.4
3508341	2.8	51.3	29.8	<2	0.85	0.7
3508342	2.9	54.9	32.1	<2	1.09	0.8
3508343	13.3	46.9	36.7	<2	0.91	1.0
3508344	3.6	92.0	17.7	<2	0.68	0.7
3508345	5.3	77.4	17.3	<2	1.08	0.7
3508346	3.8	84.0	19.4	<2	0.75	0.8
3508347	2.2	31.0	42.7	<2	0.93	1.1
3508348	2.5	32.5	30.9	<2	1.09	0.9
3508349	2.1	36.1	46.4	<2	0.98	0.9
3508350	1.3	0.5	0.5	<2	<0.05	<0.3
3508351	1.7	35.7	49.3	<2	1.00	0.9
3508352	1.8	29.3	47.4	<2	0.88	1.1
3508353	1.6	25.1	49.7	<2	1.01	1.1
3508354	2.2	49.6	43.8	<2	1.14	0.9
3508355	1.9	53.8	40.5	<2	1.62	1.0
3508356	2.1	54.5	38.5	<2	1.21	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508357	2.2	62.0	28.9	<2	0.94	0.9
3508358	2.4	54.2	30.9	<2	1.05	0.9
3508359	2.4	48.8	33.1	<2	0.89	0.9
3508360	21.2	201	14.4	2	2.30	3.5
3508361	2.2	37.7	31.3	<2	1.52	0.8
3508362	2.6	41.0	31.6	<2	1.61	0.8
3508363	3.4	49.8	30.2	2	1.62	0.9
3508364	2.3	33.7	50.4	2	1.32	1.2
3508365	3.1	41.3	42.5	<2	1.57	1.0
3508366	3.2	26.2	16.8	<2	1.05	0.8
3508367	3.2	34.2	16.8	<2	1.07	0.8
3508368	2.1	29.5	53.4	<2	1.06	1.1
3508369	2.0	36.2	44.1	<2	1.02	1.1
3508370	0.5	0.4	0.6	<2	0.09	<0.3
3508371	2.0	29.0	53.9	<2	0.91	1.2
3508372	2.9	33.8	46.3	<2	1.32	1.0
3508373	2.3	35.3	42.8	<2	0.96	1.0
3508374	2.8	43.1	30.3	<2	1.17	0.9
3508375	2.9	43.3	30.7	2	1.22	0.8
3508376	3.2	36.7	39.6	2	1.78	1.3
3508377	2.3	42.5	41.6	<2	0.96	1.0
3508378	3.6	22.4	26.5	<2	2.54	1.6
3508379	2.0	46.6	28.7	<2	0.93	1.2
3508380	19.5	212	15.0	2	2.33	3.6
3508381	1.8	55.5	49.3	<2	0.71	0.9
3508382	4.5	57.1	27.0	<2	1.00	0.7
3508383	3.4	63.9	26.4	<2	0.54	0.8
3508384	3.1	24.3	15.6	<2	0.82	1.0
3508385	2.0	38.4	45.6	<2	1.30	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508386	1.9	27.4	49.3	<2	0.99	1.1
3508387	2.7	27.5	33.0	<2	1.29	1.1
3508388	2.5	21.9	46.8	<2	1.08	1.1
3508389	2.6	27.6	45.1	<2	0.95	1.1
3508390	<0.5	0.2	<0.5	<2	0.07	<0.3
3508391	2.3	35.7	31.1	<2	1.13	1.3
3508392	2.2	30.5	43.3	<2	1.08	1.2
3508393	1.9	29.2	44.5	<2	1.00	1.3
3508394	2.4	15.1	25.6	<2	1.19	1.2
3508395	1.7	31.3	48.8	<2	0.80	1.0
3508396	1.9	23.3	54.7	<2	0.63	1.0
3508397	2.1	23.0	46.0	<2	0.56	0.7
3508398	1.7	21.3	46.3	<2	0.89	0.9
*Dup 3508361	2.2	37.5	31.9	<2	1.51	0.8
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508373	2.4	34.9	42.5	<2	0.97	0.9
*Std OREAS 601	308	101	5.4	12	31.39	4.3
*Std OREAS 520	5.9	114	18.2	<2	3.28	4.7
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.4	103	16.8	<2	3.16	4.1
*Std OREAS 601	308	89.4	5.0	11	31.28	3.7
*Std OREAS 601	308	93.4	5.3	12	30.70	4.2
*Rep 3508352	1.9	29.6	47.9	<2	0.90	1.1
*Std OREAS 520	6.4	113	18.6	<2	3.29	4.9
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508323	0.11	0.57	0.12	<0.2	0.10	0.09
3508324	0.09	0.59	0.12	<0.2	0.20	0.21
3508325	0.58	0.68	<0.05	2.6	0.14	1.43
3508326	0.59	0.67	<0.05	2.7	0.16	1.34
3508327	0.24	0.39	0.07	0.4	0.39	0.22
3508328	0.25	0.63	0.18	0.7	0.07	0.35
3508329	0.25	0.56	0.07	0.7	0.13	0.36
3508330	<0.05	<0.05	<0.05	<0.2	<0.02	0.12
3508331	0.22	0.49	0.08	0.6	0.17	0.30
3508332	0.22	0.45	0.06	0.5	0.17	0.30
3508333	0.19	0.45	0.08	0.4	0.19	0.22
3508334	0.19	0.46	0.12	0.4	0.17	0.19
3508335	0.18	0.49	0.10	0.4	0.18	0.18
3508336	0.19	0.49	0.08	0.4	0.18	0.18
3508337	0.20	0.63	0.15	0.4	0.12	0.17
3508338	0.17	0.62	0.14	0.3	0.12	0.13
3508339	0.19	0.57	0.08	0.3	0.17	0.28
3508340	1.37	0.88	0.25	18.4	0.94	4.85
3508341	0.18	0.49	0.06	0.4	0.18	0.16
3508342	0.25	0.62	0.09	0.5	0.19	0.24
3508343	0.27	0.68	0.21	0.5	0.16	0.29
3508344	0.31	0.58	0.10	2.1	0.35	1.12
3508345	0.31	0.59	<0.05	2.2	0.29	1.15
3508346	0.31	0.60	0.06	2.1	0.33	1.08
3508347	0.18	0.62	0.09	0.4	0.11	0.18
3508348	0.20	0.61	0.06	0.3	0.16	0.18
3508349	0.14	0.56	0.09	0.3	0.14	0.15
3508350	<0.05	<0.05	<0.05	<0.2	<0.02	0.17
3508351	0.12	0.50	0.08	0.2	0.13	0.11

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508352	0.20	0.62	0.10	0.8	0.11	0.38
3508353	0.14	0.54	0.14	0.3	0.08	0.12
3508354	0.13	0.48	0.08	0.2	0.17	0.11
3508355	0.14	0.52	0.13	0.3	0.18	0.14
3508356	0.18	0.55	0.09	0.4	0.18	0.16
3508357	0.19	0.57	<0.05	0.4	0.20	0.17
3508358	0.20	0.60	0.08	0.5	0.17	0.20
3508359	0.21	0.64	0.06	0.6	0.15	0.22
3508360	1.43	0.92	0.29	19.2	0.93	4.96
3508361	0.19	0.62	0.11	0.3	0.14	0.14
3508362	0.19	0.62	0.08	0.4	0.14	0.14
3508363	0.18	0.56	0.19	0.4	0.17	0.18
3508364	0.15	0.64	0.19	0.3	0.12	0.18
3508365	0.17	0.62	0.09	0.4	0.14	0.25
3508366	0.48	0.63	0.07	2.8	0.09	1.54
3508367	0.52	0.61	<0.05	3.0	0.12	1.46
3508368	0.19	0.71	0.15	0.5	0.09	0.25
3508369	0.17	0.56	0.09	0.3	0.13	0.14
3508370	<0.05	<0.05	0.08	<0.2	<0.02	0.10
3508371	0.17	0.67	0.11	0.4	0.11	0.17
3508372	0.14	0.64	0.17	0.4	0.13	0.17
3508373	0.14	0.62	0.12	0.3	0.14	0.17
3508374	0.12	0.55	0.11	0.4	0.17	0.28
3508375	0.12	0.56	0.15	0.4	0.17	0.28
3508376	0.19	0.62	0.14	0.7	0.15	0.34
3508377	0.16	0.68	0.13	0.5	0.16	0.24
3508378	0.30	0.63	0.12	1.3	0.07	0.53
3508379	0.22	0.58	0.08	0.8	0.16	0.32
3508380	1.42	0.92	0.24	19.1	0.92	4.95

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Member of the SGS Group (SGS SA)

Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508381	0.10	0.50	0.13	0.3	0.20	0.13
3508382	0.35	0.60	0.07	2.5	0.19	1.24
3508383	0.35	0.58	<0.05	2.4	0.20	1.20
3508384	0.57	0.75	0.12	2.8	0.08	1.51
3508385	0.14	0.65	0.11	0.3	0.14	0.17
3508386	0.17	0.62	0.17	0.4	0.12	0.20
3508387	0.23	0.55	0.05	0.7	0.09	0.32
3508388	0.14	0.62	0.08	0.4	0.08	0.20
3508389	0.18	0.63	0.09	0.5	0.10	0.25
3508390	<0.05	<0.05	<0.05	<0.2	<0.02	0.19
3508391	0.23	0.57	0.06	0.8	0.13	0.36
3508392	0.15	0.66	0.12	0.5	0.12	0.26
3508393	0.19	0.61	0.08	0.6	0.10	0.29
3508394	0.26	0.54	0.16	1.0	0.05	0.41
3508395	0.11	0.53	0.09	0.3	0.12	0.13
3508396	0.11	0.58	0.07	0.3	0.10	0.14
3508397	0.09	0.49	0.07	<0.2	0.10	0.08
3508398	0.11	0.53	0.05	0.2	0.09	0.12
*Dup 3508361	0.18	0.63	0.08	0.4	0.13	0.14
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508373	0.15	0.62	0.11	0.4	0.14	0.20
*Std OREAS 601	0.97	0.62	15.33	11.4	1.17	4.05
*Std OREAS 520	0.38	0.72	0.37	9.8	0.25	18.15
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.36	0.64	0.36	9.5	0.24	17.31
*Std OREAS 601	0.92	0.55	15.25	10.9	1.16	3.96
*Std OREAS 601	0.99	0.59	15.04	11.0	1.17	3.92
*Rep 3508352	0.20	0.62	0.08	0.8	0.10	0.39
*Std OREAS 520	0.39	0.73	0.37	9.5	0.25	17.46

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508323	0.6	16.9	1.5
3508324	0.7	17.5	1.5
3508325	1.3	21.9	1.9
3508326	1.5	21.8	1.8
3508327	0.5	11.9	1.1
3508328	1.1	18.9	1.7
3508329	1.0	15.4	1.4
3508330	<0.1	2.4	0.1
3508331	0.7	13.8	1.2
3508332	0.7	12.7	1.1
3508333	0.6	12.2	1.1
3508334	0.6	13.6	1.2
3508335	0.6	14.0	1.2
3508336	0.6	14.7	1.4
3508337	0.8	19.6	1.8
3508338	1.1	17.9	1.6
3508339	1.0	17.1	1.5
3508340	4.1	27.1	2.5
3508341	0.6	14.6	1.2
3508342	0.8	18.2	1.5
3508343	0.9	19.6	1.6
3508344	1.1	17.6	1.6
3508345	0.8	17.8	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508346	0.9	18.1	1.6
3508347	1.2	18.0	1.6
3508348	0.7	16.6	1.5
3508349	0.6	16.7	1.4
3508350	<0.1	2.3	0.1
3508351	0.5	15.7	1.4
3508352	1.0	17.9	1.6
3508353	0.8	16.5	1.4
3508354	0.8	14.9	1.3
3508355	1.0	15.3	1.3
3508356	1.1	16.1	1.4
3508357	0.7	15.5	1.3
3508358	0.8	17.2	1.4
3508359	0.9	18.2	1.5
3508360	5.0	26.7	2.6
3508361	0.9	17.5	1.5
3508362	0.7	17.6	1.6
3508363	1.3	16.5	1.5
3508364	1.7	18.8	1.8
3508365	1.0	18.4	1.7
3508366	1.6	17.5	1.6
3508367	1.5	16.8	1.5
3508368	0.8	21.4	2.0
3508369	0.7	17.3	1.6
3508370	<0.1	2.6	0.1
3508371	0.6	21.0	2.0
3508372	0.8	19.1	1.8
3508373	0.8	18.2	1.6
3508374	1.2	16.3	1.4
3508375	1.2	16.3	1.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05203

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508376	0.8	18.4	1.6
3508377	0.7	20.5	1.8
3508378	1.1	18.5	1.6
3508379	0.9	17.1	1.5
3508380	4.7	27.2	2.5
3508381	1.1	14.9	1.3
3508382	1.1	17.7	1.6
3508383	1.0	17.6	1.6
3508384	1.3	23.6	2.1
3508385	1.0	20.0	1.7
3508386	0.9	19.2	1.7
3508387	1.1	17.0	1.5
3508388	1.2	18.6	1.6
3508389	0.9	18.9	1.7
3508390	<0.1	2.5	0.2
3508391	0.9	17.2	1.5
3508392	0.8	20.5	1.8
3508393	1.2	19.3	1.7
3508394	1.6	16.7	1.4
3508395	1.2	17.1	1.5
3508396	0.5	17.9	1.6
3508397	0.7	15.1	1.4
3508398	0.4	16.6	1.6
*Dup 3508361	0.9	18.0	1.6
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508373	0.8	18.3	1.7
*Std OREAS 601	5.7	12.4	0.7
*Std OREAS 520	45.2	22.2	2.3
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	43.8	20.0	2.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (77-152)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05203

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	5.6	10.8	0.7
*Std OREAS 601	5.8	11.9	0.7
*Rep 3508352	1.0	18.0	1.6
*Std OREAS 520	45.5	22.5	2.3
*Blk BLANK	<0.1	<0.1	<0.1

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05204

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	19-Oct-2020
Project	MT MILLIGAN	Date Analysed	22-Oct-2020 - 02-Nov-2020
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core	Date Completed	02-Nov-2020
		SGS Order Number	BBM20-05204
Number of Samples	76		

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
71	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508399	4.97	15	5.38	158	10.16	23
3508400	0.15	638	7.59	915	2.53	56
3508401	5.56	44	6.39	141	10.32	95
3508402	5.38	19	6.83	217	9.53	27
3508403	5.72	16	7.71	231	9.44	24
3508404	5.50	<5	7.65	212	9.74	24
3508405	5.60	<5	6.80	138	9.86	33
3508406	5.54	10	7.76	189	9.47	23
3508407	5.37	2470	7.35	169	9.45	21
3508408	5.46	19	7.32	268	9.27	28
3508409	5.77	32	6.86	237	9.48	16
3508410	1.05	5	0.08	11	>15.00	<1
3508411	5.29	11	7.27	360	8.81	17
3508412	3.24	11	7.12	331	9.14	18
3508413	4.59	13	8.59	1101	6.09	15
3508414	4.81	16	9.31	1333	5.16	5
3508415	4.81	23	9.48	1342	5.08	5
3508416	4.55	13	9.03	1147	5.26	5
3508417	3.38	7	9.19	1292	5.28	6
3508418	4.92	<5	9.45	1436	3.41	4
3508419	5.01	<5	9.51	1438	3.48	3
3508420	0.15	223	7.80	988	2.57	69
3508421	3.31	9	8.94	1317	3.85	3
3508422	6.10	27	8.36	457	8.62	8
3508423	5.56	19	7.73	356	8.64	9
3508424	5.25	16	8.36	578	7.24	5
3508425	5.29	16	9.09	579	7.24	3
3508426	5.60	17	8.29	422	8.70	5
3508427	5.48	17	8.90	427	8.39	7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508428	5.45	16	7.87	333	8.33	6
3508429	6.31	19	8.01	402	8.55	35
3508430	1.19	16	0.14	13	>15.00	1
3508431	5.18	22	7.82	372	8.51	8
3508432	3.68	8	6.56	850	7.20	257
3508433	5.58	11	6.57	646	7.25	256
3508434	4.36	43	7.58	372	8.33	41
3508435	4.35	15	8.56	349	8.97	8
3508436	3.38	10	9.06	478	8.77	7
3508437	3.44	14	8.53	1008	3.81	11
3508438	2.97	12	9.07	1238	3.76	13
3508439	5.96	17	7.56	347	9.30	115
3508440	0.15	224	7.81	955	2.52	72
3508441	5.70	13	6.50	272	8.32	57
3508442	5.65	11	6.54	256	9.29	79
3508443	5.78	10	7.45	264	9.48	30
3508444	4.77	16	6.91	320	9.71	17
3508445	5.40	13	6.67	320	9.95	19
3508446	4.71	20	6.56	335	9.60	30
3508447	5.84	8	7.21	241	9.20	35
3508448	5.89	8	6.18	238	9.23	21
3508449	5.49	12	6.95	384	8.50	16
3508450	1.30	<5	0.07	10	>15.00	1
3508451	6.22	21	6.47	375	9.19	151
3508452	5.38	27	7.47	448	9.00	17
3508453	5.16	22	5.97	299	9.81	61
3508454	5.57	33	7.17	336	10.26	28
3508455	5.57	30	7.27	339	9.96	29
3508456	4.83	20	7.89	457	8.39	33

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508457	5.73	58	5.66	269	9.53	454
3508458	5.92	42	5.90	363	9.36	198
3508459	5.34	7	7.05	458	8.14	77
3508460	0.15	222	7.63	922	2.45	66
3508461	4.43	9	7.38	499	7.06	130
3508462	4.59	5	7.35	311	7.08	125
3508463	4.46	8	7.37	679	6.71	94
3508464	4.17	14	7.38	624	5.90	83
3508465	3.54	14	8.54	970	7.90	43
3508466	5.18	16	7.84	739	8.20	6
3508467	4.88	17	7.50	532	8.38	7
3508468	4.84	20	8.06	689	7.87	7
3508469	5.48	14	7.34	674	7.91	8
3508470	1.14	<5	0.07	13	>15.00	<1
3508471	5.88	8	8.21	679	9.51	13
3508472	4.92	18	7.37	506	9.11	16
3508473	5.40	18	7.66	512	9.28	15
3508474	5.23	18	8.12	516	8.55	16
*Dup 3508437	-	26	8.36	884	3.74	11
*Std SL76	-	5640	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OXG123	-	911	-	-	-	-
*Blk BLANK	-	8	-	-	-	-
*Rep 3508410	-	<5	-	-	-	-
*Std SL76	-	5770	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508430	-	6	-	-	-	-
*Std GS-9B	-	8430	-	-	-	-
*Rep 3508450	-	<5	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Rep 3508448	-	-	6.22	239	9.33	18
*Blk BLANK	-	-	<0.01	<1	<0.01	1
*Std OREAS 601	-	-	6.19	1416	1.20	30
*Std OREAS 520	-	-	5.82	824	3.78	33
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OREAS 520	-	-	5.79	765	3.88	35
*Std OREAS 601	-	-	6.60	867	1.31	27
*Blk BLANK	-	-	<0.01	<1	0.01	<1
*Std OREAS 601	-	-	6.22	2029	1.25	31
*Rep 3508424	-	-	8.53	584	7.42	4
*Std OREAS 520	-	-	5.99	1079	3.87	33

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508399	93.4	12.65	0.52	7	5.32	1858
3508400	5100	4.89	2.55	31	1.40	501
3508401	238	11.99	0.53	8	4.84	1761
3508402	158	11.97	0.77	8	4.66	1731
3508403	181	11.10	1.00	10	4.34	1696
3508404	27.0	11.42	1.10	12	4.28	1584
3508405	58.0	12.42	0.71	11	4.61	1842
3508406	80.6	11.14	0.97	11	4.29	1682
3508407	151	11.39	0.91	11	4.46	1697
3508408	92.2	11.60	0.96	12	4.28	1823
3508409	247	12.41	0.98	12	4.56	1964

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508410	1.3	0.19	0.01	<1	2.14	175
3508411	147	11.07	1.05	13	4.29	1903
3508412	143	11.55	1.02	14	4.32	2161
3508413	172	6.71	1.66	10	2.48	1847
3508414	167	5.94	2.35	9	2.01	1490
3508415	161	5.99	2.31	9	2.03	1503
3508416	194	6.12	2.36	9	2.04	1383
3508417	60.3	6.14	2.66	11	2.00	1246
3508418	60.2	4.64	3.89	9	1.31	715
3508419	53.2	4.69	3.18	12	1.26	652
3508420	2693	4.48	2.82	35	1.50	514
3508421	70.0	4.76	2.68	9	1.20	723
3508422	509	10.01	1.37	13	3.68	1808
3508423	434	11.04	1.06	14	3.91	2051
3508424	384	8.80	1.38	14	3.21	1913
3508425	271	7.85	1.33	14	3.13	1721
3508426	321	10.17	1.24	15	3.83	1724
3508427	314	8.69	1.02	15	3.35	1549
3508428	284	9.05	0.85	14	3.43	1592
3508429	226	10.16	1.21	16	4.09	1677
3508430	1.6	0.20	0.01	<1	1.60	160
3508431	304	11.53	1.16	18	3.87	1894
3508432	163	7.88	1.93	16	5.63	1329
3508433	138	7.51	1.89	19	5.78	1232
3508434	319	9.96	1.09	21	3.97	1881
3508435	182	9.88	1.24	20	3.62	1631
3508436	285	8.46	1.37	21	2.95	1725
3508437	70.3	4.78	4.45	10	1.71	1195
3508438	133	4.72	4.65	12	1.53	1043

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508439	305	9.55	1.65	26	4.48	2101
3508440	2689	4.28	3.13	35	1.46	519
3508441	274	10.51	1.45	19	5.48	2255
3508442	174	10.19	1.14	21	5.68	2041
3508443	312	10.50	1.08	22	4.39	2290
3508444	353	10.03	1.32	22	4.11	3162
3508445	309	10.48	1.47	22	4.13	3339
3508446	208	11.04	1.31	22	4.41	2648
3508447	103	10.15	0.99	22	4.48	1829
3508448	88.4	11.69	0.93	19	4.88	1993
3508449	223	10.59	1.00	19	4.30	2267
3508450	0.9	0.19	0.01	<1	2.41	176
3508451	447	10.77	1.14	18	5.16	2043
3508452	304	11.03	1.18	20	4.13	2063
3508453	612	10.50	0.81	16	4.70	1947
3508454	730	9.60	1.04	18	4.14	2170
3508455	742	9.56	1.09	19	4.17	2124
3508456	232	9.84	1.75	21	4.09	2138
3508457	875	8.71	1.07	18	6.88	1629
3508458	1461	10.98	1.09	19	5.86	1955
3508459	286	8.64	1.64	20	4.80	2011
3508460	2645	4.22	3.32	34	1.43	497
3508461	83.2	6.86	1.29	16	4.15	1285
3508462	60.0	6.43	0.70	13	3.86	1344
3508463	62.5	6.64	1.96	12	4.17	1491
3508464	150	6.93	1.58	13	3.87	1495
3508465	407	8.91	1.74	21	3.95	1645
3508466	231	9.07	1.37	18	3.31	1558
3508467	386	8.73	0.90	14	3.79	1733

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508468	402	9.14	1.37	18	3.82	1786
3508469	321	8.85	1.61	20	3.49	2481
3508470	1.7	0.17	<0.01	<1	2.09	180
3508471	204	10.03	1.67	22	4.33	1734
3508472	301	10.38	1.37	21	4.46	2322
3508473	299	9.96	1.25	21	4.33	2019
3508474	292	10.29	1.59	24	4.40	1943
*Dup 3508437	66.3	4.61	4.35	10	1.65	1180
*Rep 3508448	86.3	11.77	0.94	19	4.90	1993
*Blk BLANK	0.7	<0.01	<0.01	<1	<0.01	2
*Std OREAS 601	969	2.42	2.12	21	0.36	446
*Std OREAS 520	2882	14.80	3.59	18	1.11	2188
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Std OREAS 520	2913	>15.00	3.66	18	1.14	2282
*Std OREAS 601	1030	2.61	2.29	22	0.39	485
*Blk BLANK	<0.5	0.02	<0.01	<1	<0.01	3
*Std OREAS 601	952	2.54	2.13	21	0.37	456
*Rep 3508424	383	8.94	1.41	14	3.24	1914
*Std OREAS 520	2978	>15.00	3.57	19	1.19	2225

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508399	0.61	32	0.03	0.06	451	0.77
3508400	2.01	32	0.11	0.83	345	0.48
3508401	0.73	60	0.06	0.13	737	0.74

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508402	0.77	32	0.05	0.17	559	0.75
3508403	0.69	29	0.04	0.52	603	0.68
3508404	0.69	29	0.02	0.02	573	0.70
3508405	0.65	32	0.03	0.15	627	0.79
3508406	0.76	27	0.03	0.12	616	0.70
3508407	0.75	28	0.03	0.09	695	0.72
3508408	0.90	26	0.05	0.18	661	0.73
3508409	0.60	29	0.04	0.54	567	0.77
3508410	0.03	<1	<0.01	<0.01	75.2	<0.01
3508411	1.17	25	0.09	0.45	623	0.71
3508412	0.97	27	0.04	0.16	669	0.70
3508413	3.08	18	0.24	0.43	1031	0.43
3508414	2.89	10	0.24	0.06	1446	0.42
3508415	2.86	11	0.25	0.06	1467	0.42
3508416	2.91	11	0.24	0.10	1521	0.43
3508417	2.87	10	0.25	0.06	1350	0.43
3508418	3.40	4	0.19	0.68	515	0.40
3508419	3.39	4	0.20	0.88	527	0.40
3508420	2.06	57	0.11	0.36	314	0.47
3508421	4.05	4	0.20	0.46	644	0.40
3508422	1.33	19	0.10	0.45	799	0.65
3508423	1.32	21	0.08	0.83	714	0.76
3508424	2.10	13	0.13	1.13	749	0.59
3508425	2.23	12	0.21	1.01	871	0.57
3508426	1.04	18	0.18	0.51	737	0.65
3508427	1.84	13	0.19	0.19	1021	0.60
3508428	1.36	14	0.23	0.16	823	0.63
3508429	1.17	28	0.17	0.13	829	0.66
3508430	0.09	<1	<0.01	0.01	77.0	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508431	1.13	20	0.17	0.43	804	0.79
3508432	1.88	103	0.23	0.11	698	0.44
3508433	2.19	114	0.23	0.13	600	0.41
3508434	1.33	36	0.14	0.32	903	0.73
3508435	0.94	21	0.12	0.14	754	0.63
3508436	1.30	16	0.09	0.88	1056	0.53
3508437	2.68	8	0.15	1.86	330	0.40
3508438	2.76	7	0.17	1.42	526	0.39
3508439	0.76	50	0.06	0.47	685	0.59
3508440	2.09	58	0.10	0.36	311	0.47
3508441	0.77	34	0.09	0.75	488	0.64
3508442	0.50	41	0.04	0.28	631	0.57
3508443	0.76	30	0.04	0.92	686	0.65
3508444	0.81	24	0.06	2.06	667	0.61
3508445	0.63	28	0.04	1.79	448	0.60
3508446	0.51	32	0.02	2.06	517	0.65
3508447	0.76	28	0.03	0.29	651	0.64
3508448	0.71	32	0.03	0.39	528	0.73
3508449	1.36	26	0.10	0.86	594	0.70
3508450	0.04	<1	<0.01	0.02	74.2	<0.01
3508451	0.82	46	0.09	0.37	525	0.66
3508452	0.99	25	0.17	0.34	658	0.72
3508453	0.88	37	0.10	1.01	530	0.62
3508454	0.85	26	0.09	1.38	727	0.55
3508455	0.85	26	0.08	1.22	711	0.55
3508456	1.08	29	0.11	1.02	626	0.65
3508457	0.67	111	0.07	0.24	393	0.44
3508458	0.58	73	0.07	0.76	500	0.62
3508459	1.63	47	0.09	0.67	606	0.50

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508460	2.06	56	0.09	0.33	304	0.45
3508461	3.12	53	0.17	0.15	879	0.46
3508462	3.53	54	0.19	0.41	1083	0.48
3508463	2.48	52	0.20	0.93	801	0.47
3508464	3.26	49	0.19	0.54	917	0.49
3508465	1.16	27	0.15	0.14	906	0.61
3508466	1.50	17	0.15	0.30	938	0.60
3508467	1.81	20	0.18	0.41	857	0.63
3508468	1.63	22	0.16	0.26	795	0.61
3508469	1.79	19	0.16	1.66	729	0.57
3508470	0.03	<1	<0.01	<0.01	79.4	<0.01
3508471	1.01	28	0.08	0.29	711	0.63
3508472	1.17	30	0.08	1.47	625	0.69
3508473	1.19	27	0.10	0.76	692	0.63
3508474	1.12	29	0.08	0.75	593	0.59
*Dup 3508437	2.55	7	0.14	1.80	319	0.38
*Rep 3508448	0.71	32	0.03	0.38	537	0.73
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.8	<0.01
*Std OREAS 601	1.45	25	0.04	0.99	217	0.17
*Std OREAS 520	1.41	76	0.07	0.91	98.8	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 520	1.39	78	0.07	1.02	102	0.38
*Std OREAS 601	1.52	25	0.05	1.12	238	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.7	<0.01
*Std OREAS 601	1.43	24	0.05	1.07	217	0.17
*Rep 3508424	2.16	13	0.14	1.10	771	0.59
*Std OREAS 520	1.37	73	0.08	0.98	99.0	0.38

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508399	619	82	33.7	0.10	<1	0.4
3508400	113	66	75.5	1.33	90	2.9
3508401	582	106	26.9	0.33	2	0.3
3508402	570	98	21.8	0.21	2	0.3
3508403	544	90	19.6	0.21	2	0.3
3508404	576	90	24.0	0.05	1	0.3
3508405	615	93	27.3	0.12	1	0.3
3508406	525	93	22.4	0.11	<1	0.3
3508407	557	91	23.0	0.15	<1	0.3
3508408	547	95	23.5	0.13	2	0.3
3508409	577	101	22.1	0.24	1	0.3
3508410	3	4	<0.5	0.05	<1	<0.1
3508411	499	108	30.0	0.15	5	0.5
3508412	511	89	24.3	0.15	5	0.4
3508413	287	70	30.4	0.23	6	1.4
3508414	249	62	32.5	0.27	3	1.6
3508415	251	62	41.2	0.29	3	1.6
3508416	255	51	24.1	0.32	3	1.6
3508417	249	43	23.8	0.16	2	1.7
3508418	118	23	58.4	0.11	3	1.7
3508419	121	24	35.0	0.10	3	1.8
3508420	117	74	69.2	0.51	28	3.3
3508421	121	28	27.5	0.09	1	1.8
3508422	454	97	22.3	0.60	3	0.4
3508423	540	116	23.7	0.62	1	0.4
3508424	406	116	18.8	0.51	2	0.6
3508425	384	97	18.4	0.32	3	0.5
3508426	495	103	22.8	0.42	3	0.3
3508427	413	97	17.9	0.36	3	0.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508428	436	93	17.8	0.33	3	0.4
3508429	466	102	18.7	0.26	2	0.4
3508430	3	5	<0.5	<0.02	<1	<0.1
3508431	572	99	17.9	0.34	4	0.3
3508432	290	62	28.3	0.15	2	1.1
3508433	262	68	30.5	0.18	3	1.1
3508434	484	112	27.2	0.41	5	0.4
3508435	473	110	22.8	0.27	5	0.3
3508436	400	114	17.6	0.43	9	0.4
3508437	148	131	27.7	0.20	9	0.8
3508438	133	44	31.4	0.14	9	1.2
3508439	481	125	19.8	0.42	1	0.5
3508440	118	80	77.4	0.37	26	3.5
3508441	496	114	23.3	0.37	1	0.4
3508442	478	95	21.5	0.19	2	0.3
3508443	538	129	20.8	0.36	3	0.4
3508444	575	127	17.4	0.71	11	0.8
3508445	721	134	19.8	0.49	3	0.9
3508446	573	128	18.7	0.35	5	0.6
3508447	524	117	20.2	0.17	2	0.4
3508448	609	115	24.6	0.13	1	0.3
3508449	527	122	24.7	0.31	<1	0.5
3508450	2	4	1.4	0.04	<1	<0.1
3508451	495	120	23.0	0.53	2	0.4
3508452	508	141	28.0	1.09	1	0.4
3508453	476	116	30.9	0.92	<1	0.5
3508454	447	125	23.9	1.10	2	0.5
3508455	444	129	24.1	1.12	1	0.5
3508456	505	148	21.7	0.34	5	0.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508457	342	84	21.5	0.75	<1	0.3
3508458	478	137	23.8	1.35	1	0.4
3508459	399	106	26.0	0.40	2	1.0
3508460	113	76	72.0	0.30	25	3.4
3508461	263	78	40.9	0.12	3	1.6
3508462	250	92	37.9	0.15	2	1.6
3508463	280	148	33.0	2.00	2	1.6
3508464	272	282	38.4	2.30	2	1.7
3508465	422	123	18.9	0.36	2	0.4
3508466	409	111	20.7	0.29	<1	0.4
3508467	419	100	26.2	0.48	1	0.5
3508468	426	113	21.6	0.51	<1	0.4
3508469	400	110	16.9	0.48	11	0.7
3508470	<2	3	1.5	0.03	<1	<0.1
3508471	510	91	23.9	0.35	2	0.3
3508472	527	102	22.5	0.46	5	0.4
3508473	484	93	24.7	0.38	4	0.4
3508474	544	112	20.2	0.51	3	0.4
*Dup 3508437	144	128	25.7	0.18	8	0.8
*Rep 3508448	588	116	24.1	-	-	-
*Blk BLANK	<2	<1	<0.5	0.02	<1	<0.1
*Std OREAS 601	26	1282	158	51.19	328	2.4
*Std OREAS 520	245	22	134	0.42	165	1.3
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Std OREAS 520	262	23	130	0.38	142	1.0
*Std OREAS 601	28	1298	154	53.57	295	2.0
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Std OREAS 601	27	1210	150	48.59	328	2.2
*Rep 3508424	407	116	19.4	0.53	3	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	251	22	125	0.50	164	1.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508399	<0.04	0.13	9.36	58.3	<1	21.0
3508400	1.37	1.09	69.65	17.0	12	19.1
3508401	<0.04	0.14	9.77	57.0	<1	21.6
3508402	0.05	0.14	9.59	55.8	<1	22.3
3508403	0.07	0.13	7.57	58.8	<1	23.1
3508404	<0.04	0.11	7.57	52.4	<1	22.6
3508405	<0.04	0.12	8.34	58.9	<1	22.9
3508406	<0.04	0.11	7.84	53.8	<1	22.2
3508407	<0.04	0.12	7.56	51.4	<1	20.5
3508408	<0.04	0.12	10.35	51.0	<1	23.5
3508409	0.05	0.12	8.42	66.8	<1	23.1
3508410	<0.04	<0.02	1.02	3.6	<1	0.1
3508411	0.07	0.12	12.44	58.4	<1	22.5
3508412	0.04	0.12	8.74	46.3	<1	21.7
3508413	0.06	0.03	26.12	31.3	1	19.3
3508414	<0.04	0.04	31.39	25.2	<1	21.6
3508415	<0.04	0.05	31.95	25.0	<1	21.3
3508416	<0.04	0.03	31.85	27.3	1	21.5
3508417	<0.04	<0.02	31.63	24.3	1	21.9
3508418	0.04	<0.02	29.29	18.1	1	19.9
3508419	<0.04	<0.02	29.25	20.7	<1	20.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508420	0.70	0.39	72.43	16.5	13	19.8
3508421	<0.04	<0.02	28.43	17.4	<1	19.8
3508422	<0.04	0.19	12.37	46.2	<1	22.6
3508423	0.07	0.19	10.92	52.1	<1	23.6
3508424	0.08	0.18	14.72	42.2	<1	22.3
3508425	0.09	0.12	18.26	44.9	<1	22.1
3508426	0.06	0.20	14.20	56.5	<1	22.6
3508427	<0.04	0.16	16.25	48.5	<1	23.1
3508428	<0.04	0.18	17.09	45.9	<1	21.7
3508429	<0.04	0.13	13.32	50.1	1	21.6
3508430	<0.04	0.02	1.17	3.7	<1	0.4
3508431	0.04	0.10	12.99	53.3	<1	22.3
3508432	<0.04	0.06	17.09	50.3	4	15.8
3508433	<0.04	0.04	17.04	48.2	4	14.9
3508434	<0.04	0.19	15.69	49.7	<1	20.6
3508435	<0.04	0.15	13.04	51.9	<1	22.8
3508436	0.04	0.19	11.47	43.4	<1	22.8
3508437	0.11	0.71	27.35	22.2	1	17.1
3508438	0.08	0.03	30.05	20.2	2	18.8
3508439	0.04	0.19	9.45	54.2	2	20.1
3508440	0.69	0.35	71.98	17.2	13	19.4
3508441	0.07	0.17	11.42	64.6	2	20.6
3508442	<0.04	0.13	8.21	64.2	1	19.0
3508443	0.06	0.20	8.70	60.2	<1	21.5
3508444	0.18	0.36	8.65	55.0	2	20.7
3508445	0.12	0.28	8.72	58.6	2	21.4
3508446	0.15	0.20	6.42	55.9	1	19.7
3508447	<0.04	0.16	7.32	53.9	<1	20.8
3508448	<0.04	0.14	8.19	64.2	<1	21.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508449	0.07	0.20	14.61	55.4	<1	22.3
3508450	<0.04	<0.02	0.89	1.2	<1	0.6
3508451	0.09	0.24	10.99	61.4	1	20.4
3508452	0.07	0.32	15.21	55.1	<1	23.0
3508453	0.07	0.49	12.51	57.8	<1	19.4
3508454	0.08	0.41	11.07	54.6	<1	20.1
3508455	0.07	0.39	11.18	54.8	<1	20.6
3508456	0.22	0.21	11.23	52.0	2	22.9
3508457	<0.04	0.24	9.30	63.1	1	15.7
3508458	0.24	0.54	9.42	69.6	1	19.7
3508459	0.17	0.23	10.99	50.1	3	18.4
3508460	0.62	0.33	68.09	15.8	12	18.8
3508461	<0.04	0.09	19.74	37.4	2	16.8
3508462	0.23	0.19	21.86	33.1	1	16.5
3508463	3.59	1.97	22.47	35.8	2	18.7
3508464	7.64	4.22	22.22	35.7	3	17.5
3508465	<0.04	0.32	14.39	47.5	1	22.8
3508466	0.04	0.31	14.67	44.2	<1	24.5
3508467	0.05	0.34	20.36	49.1	<1	22.4
3508468	<0.04	0.27	16.63	48.8	<1	22.8
3508469	0.14	0.27	18.04	44.9	2	22.3
3508470	<0.04	<0.02	1.28	2.2	<1	0.2
3508471	0.05	0.14	9.90	46.7	<1	21.2
3508472	0.28	0.16	10.36	52.4	1	20.6
3508473	0.16	0.17	13.25	48.9	<1	21.7
3508474	0.29	0.20	8.84	50.8	1	20.6
*Dup 3508437	0.12	0.72	25.55	20.8	1	16.6
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.32	8.63	62.84	5.9	8	22.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	2.77	0.13	88.37	202	<1	20.5
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 520	2.89	0.06	83.04	190	<1	18.8
*Std OREAS 601	20.32	7.58	60.22	5.5	6	21.7
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.98	7.95	61.79	5.6	7	21.8
*Rep 3508424	0.08	0.15	15.12	44.4	<1	22.4
*Std OREAS 520	2.81	0.17	87.71	203	<1	19.7

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508399	1.55	0.10	3.5	0.27	1.29	1.9
3508400	2.56	0.10	35.0	0.38	378	21.1
3508401	1.26	0.08	4.0	0.22	2.72	3.1
3508402	1.19	0.09	4.0	0.22	1.23	2.3
3508403	1.10	0.08	3.0	0.21	5.06	1.3
3508404	1.19	0.08	3.0	0.22	0.76	1.5
3508405	1.32	0.09	3.2	0.24	1.96	2.0
3508406	1.16	0.08	3.1	0.22	1.23	1.6
3508407	1.05	0.07	3.0	0.21	0.92	1.7
3508408	1.19	0.09	4.3	0.25	1.46	2.4
3508409	1.16	0.09	3.2	0.25	1.21	1.5
3508410	<0.02	<0.02	1.2	0.02	<0.05	0.1
3508411	1.27	0.10	5.3	0.25	1.55	3.0
3508412	1.15	0.09	3.5	0.24	1.19	1.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508413	1.03	0.04	13.4	0.21	1.31	6.3
3508414	1.20	0.05	16.0	0.24	3.00	8.9
3508415	1.24	0.05	16.3	0.24	2.89	8.8
3508416	1.14	0.07	16.2	0.24	2.48	8.5
3508417	1.06	0.05	16.1	0.23	3.41	9.0
3508418	1.11	0.03	14.3	0.28	4.88	9.5
3508419	1.08	0.03	14.4	0.28	4.28	9.7
3508420	2.41	0.07	36.3	0.39	108	19.9
3508421	1.11	0.03	13.7	0.28	4.79	9.4
3508422	1.12	0.08	5.5	0.26	2.61	2.4
3508423	1.23	0.07	4.7	0.25	4.54	2.4
3508424	1.00	0.07	7.0	0.24	3.60	3.5
3508425	0.90	0.06	8.8	0.24	4.20	3.6
3508426	1.19	0.07	6.3	0.25	1.62	2.5
3508427	0.97	0.06	7.6	0.22	6.04	3.7
3508428	1.00	0.07	7.8	0.24	4.78	3.1
3508429	1.03	0.07	5.9	0.23	1.19	2.0
3508430	<0.02	<0.02	1.3	0.03	0.10	0.2
3508431	1.01	0.08	5.8	0.24	2.20	2.1
3508432	1.07	0.05	8.3	0.21	2.06	3.1
3508433	1.03	0.04	8.3	0.20	2.36	3.2
3508434	1.25	0.08	6.7	0.25	3.45	2.5
3508435	1.09	0.07	5.6	0.21	1.67	1.7
3508436	0.85	0.07	5.0	0.18	1.14	1.7
3508437	0.89	0.04	13.0	0.24	5.15	7.6
3508438	1.01	0.04	14.6	0.25	7.73	8.6
3508439	0.92	0.07	4.1	0.18	2.84	1.6
3508440	2.56	0.08	38.8	0.38	103	19.7
3508441	1.10	0.08	5.0	0.21	4.28	2.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508442	1.00	0.08	3.3	0.19	6.12	1.8
3508443	0.98	0.08	3.6	0.19	1.73	1.6
3508444	0.84	0.08	3.6	0.18	14.07	1.6
3508445	0.91	0.07	3.6	0.18	50.08	1.4
3508446	0.89	0.08	2.5	0.17	6.19	1.2
3508447	0.98	0.08	3.0	0.18	1.76	1.3
3508448	1.16	0.09	3.2	0.20	1.91	1.7
3508449	1.14	0.08	6.7	0.23	3.38	3.1
3508450	0.03	<0.02	1.2	0.02	<0.05	0.1
3508451	1.07	0.08	4.6	0.21	4.42	1.9
3508452	1.20	0.08	6.7	0.26	4.06	2.3
3508453	1.29	0.08	5.2	0.24	1.97	1.5
3508454	1.04	0.08	4.7	0.20	1.48	1.5
3508455	1.09	0.08	4.8	0.20	1.38	1.5
3508456	0.91	0.06	5.0	0.18	2.14	1.9
3508457	0.92	0.06	3.8	0.17	1.37	1.2
3508458	1.08	0.09	3.9	0.20	23.58	1.7
3508459	1.00	0.07	5.1	0.16	1.63	3.4
3508460	2.30	0.08	35.7	0.36	97.89	18.9
3508461	1.40	0.06	9.8	0.20	1.42	7.3
3508462	1.27	0.06	10.8	0.20	0.97	8.4
3508463	1.21	0.06	11.1	0.21	2.47	8.5
3508464	1.35	0.06	11.1	0.21	0.63	8.0
3508465	0.86	0.07	6.7	0.19	1.42	2.2
3508466	1.03	0.07	6.7	0.21	2.65	2.6
3508467	1.14	0.09	9.3	0.25	20.65	3.4
3508468	1.00	0.08	7.6	0.24	1.44	2.1
3508469	0.85	0.07	9.0	0.21	3.58	2.9
3508470	0.04	<0.02	1.4	0.02	0.14	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508471	1.04	0.07	4.2	0.20	2.76	2.8
3508472	1.06	0.08	4.5	0.21	4.27	2.2
3508473	1.09	0.07	6.2	0.21	2.03	3.3
3508474	0.88	0.06	3.9	0.18	1.99	2.0
*Dup 3508437	0.84	0.05	12.3	0.23	4.86	7.4
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.49	1.86	33.0	0.10	4.37	13.7
*Std OREAS 520	3.84	0.13	88.5	0.37	66.79	5.5
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 520	3.60	0.11	80.6	0.36	60.44	5.0
*Std OREAS 601	4.32	1.61	30.4	0.10	3.67	13.4
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.40	1.79	31.4	0.11	4.02	13.0
*Rep 3508424	1.06	0.07	7.2	0.24	3.76	3.5
*Std OREAS 520	3.62	0.12	86.9	0.38	68.72	5.0

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508399	1.6	18.0	63.1	<2	0.89	1.0
3508400	20.7	158	13.6	4	3.44	3.5
3508401	2.2	17.2	52.0	<2	0.88	1.0
3508402	1.9	27.1	54.1	<2	1.05	0.9
3508403	2.1	36.8	50.4	<2	1.05	0.8
3508404	1.7	40.2	51.4	<2	0.68	0.8
3508405	2.3	26.1	55.9	<2	0.99	1.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508406	1.8	35.4	50.7	<2	0.68	0.9
3508407	1.9	30.0	47.4	<2	1.01	0.8
3508408	2.1	34.1	50.6	<2	0.94	0.9
3508409	2.0	34.5	54.8	<2	1.13	0.9
3508410	0.5	0.4	0.6	<2	0.06	<0.3
3508411	2.3	35.8	50.4	<2	1.21	1.0
3508412	2.4	36.9	51.6	<2	1.63	0.9
3508413	3.1	54.7	23.5	<2	0.77	0.8
3508414	3.7	59.3	17.8	<2	0.65	0.9
3508415	3.8	58.3	17.5	<2	0.61	0.8
3508416	3.3	62.2	17.8	<2	0.57	0.8
3508417	3.5	77.7	17.1	<2	0.50	0.9
3508418	2.6	95.9	11.2	<2	0.38	1.0
3508419	2.8	73.5	12.1	<2	0.42	1.0
3508420	21.5	194	16.3	2	2.33	3.5
3508421	2.2	51.2	10.6	<2	0.38	1.0
3508422	2.9	46.8	40.2	<2	1.10	1.0
3508423	2.9	37.3	45.0	<2	0.99	1.1
3508424	3.8	51.2	33.3	2	0.84	1.0
3508425	5.1	45.9	29.1	2	0.73	0.7
3508426	3.5	41.9	39.5	<2	1.04	0.7
3508427	4.1	34.4	32.0	<2	1.20	0.7
3508428	5.1	28.2	33.7	<2	1.31	0.7
3508429	2.3	43.1	39.9	<2	0.81	0.7
3508430	0.9	0.3	0.5	<2	0.07	<0.3
3508431	2.9	37.5	43.4	<2	1.16	0.9
3508432	2.5	90.1	42.3	<2	0.68	0.6
3508433	2.3	77.5	41.1	<2	0.56	0.6
3508434	3.6	37.2	41.0	<2	1.53	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508435	3.1	37.4	39.0	<2	1.37	0.8
3508436	5.8	41.9	32.2	<2	1.98	0.7
3508437	49.3	87.8	14.4	<2	1.07	1.0
3508438	7.0	103	12.5	<2	0.80	1.0
3508439	3.9	63.5	45.5	<2	0.79	0.9
3508440	23.3	198	15.0	2	2.46	3.8
3508441	3.4	58.3	45.4	<2	1.00	0.8
3508442	2.2	43.5	46.7	<2	0.92	0.8
3508443	4.2	39.1	48.3	<2	1.00	0.8
3508444	17.8	53.4	43.4	2	1.24	0.8
3508445	7.9	58.2	48.4	2	1.26	1.0
3508446	6.0	50.3	53.1	2	1.06	0.8
3508447	3.7	39.0	49.3	<2	0.88	0.7
3508448	2.7	35.2	56.6	<2	0.78	1.0
3508449	3.4	35.6	46.2	<2	0.81	0.9
3508450	<0.5	0.4	<0.5	3	<0.05	<0.3
3508451	6.1	41.2	50.6	<2	0.81	0.9
3508452	4.2	43.2	44.5	<2	0.74	1.0
3508453	3.2	29.7	48.6	<2	0.56	0.9
3508454	3.9	36.9	39.1	2	0.69	0.8
3508455	3.6	39.2	40.2	2	0.67	0.8
3508456	12.0	66.9	39.4	<2	0.69	0.7
3508457	2.2	36.1	53.2	<2	0.47	0.6
3508458	12.8	40.9	53.3	<2	0.66	0.9
3508459	10.3	70.0	48.0	<2	0.59	0.7
3508460	21.7	192	14.7	2	2.33	3.5
3508461	6.4	49.7	38.9	<2	0.78	0.8
3508462	21.2	24.7	36.5	<2	1.18	0.9
3508463	254	48.7	36.8	3	0.49	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508464	258	59.5	36.9	3	0.40	0.9
3508465	4.0	52.9	35.4	<2	0.79	0.7
3508466	3.6	41.9	32.9	<2	0.73	0.9
3508467	3.3	29.0	38.7	<2	0.79	0.9
3508468	2.9	44.8	42.5	<2	0.72	0.7
3508469	9.1	63.1	35.9	3	0.87	0.7
3508470	0.7	0.3	<0.5	<2	<0.05	<0.3
3508471	2.6	44.7	42.9	<2	0.75	0.7
3508472	13.7	39.0	43.5	<2	1.13	0.8
3508473	9.3	35.3	39.4	<2	1.08	0.7
3508474	22.5	47.1	39.4	<2	0.77	0.6
*Dup 3508437	66.8	86.3	13.9	<2	1.01	1.0
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	307	98.5	5.4	14	31.85	4.6
*Std OREAS 520	6.6	116	19.6	2	3.42	5.1
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.4	103	16.8	<2	3.16	4.1
*Std OREAS 601	308	89.4	5.0	11	31.28	3.7
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	318	97.1	5.6	12	31.22	4.2
*Rep 3508424	3.9	50.4	33.2	2	0.89	1.0
*Std OREAS 520	6.4	115	19.7	<2	3.26	4.7

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508399	0.10	0.62	<0.05	0.3	0.07	0.13
3508400	1.47	0.87	0.35	17.1	0.87	4.62
3508401	0.19	0.54	0.08	0.8	0.06	0.27
3508402	0.13	0.54	0.13	0.3	0.10	0.15
3508403	0.08	0.48	0.14	<0.2	0.13	0.09
3508404	0.10	0.50	0.07	0.3	0.15	0.12
3508405	0.13	0.55	0.10	0.3	0.10	0.16
3508406	0.10	0.50	0.08	0.3	0.12	0.14
3508407	0.10	0.47	0.05	0.3	0.10	0.12
3508408	0.13	0.56	0.06	0.3	0.10	0.13
3508409	0.10	0.57	0.08	0.2	0.12	0.10
3508410	<0.05	<0.05	0.05	<0.2	<0.02	0.09
3508411	0.17	0.59	0.08	0.6	0.10	0.27
3508412	0.11	0.53	0.11	0.3	0.10	0.18
3508413	0.33	0.52	0.06	2.8	0.16	1.33
3508414	0.45	0.60	<0.05	3.4	0.15	1.70
3508415	0.44	0.62	<0.05	3.4	0.16	1.68
3508416	0.43	0.61	<0.05	3.2	0.16	1.62
3508417	0.47	0.63	<0.05	3.3	0.19	1.63
3508418	0.57	0.70	0.09	2.5	0.22	1.34
3508419	0.57	0.70	0.10	2.5	0.18	1.34
3508420	1.39	0.91	0.27	18.7	0.92	5.02
3508421	0.57	0.69	<0.05	2.3	0.13	1.25
3508422	0.14	0.56	0.11	0.4	0.13	0.16
3508423	0.14	0.56	0.14	0.3	0.11	0.15
3508424	0.20	0.55	0.12	0.7	0.16	0.28
3508425	0.19	0.59	0.09	0.7	0.15	0.35
3508426	0.14	0.62	0.07	0.4	0.14	0.17
3508427	0.22	0.56	0.06	0.8	0.11	0.29

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508428	0.18	0.61	0.06	0.7	0.09	0.24
3508429	0.12	0.57	0.07	0.5	0.16	0.21
3508430	<0.05	<0.05	0.06	<0.2	<0.02	0.17
3508431	0.11	0.59	0.10	0.3	0.13	0.14
3508432	0.17	0.47	<0.05	1.8	0.31	0.93
3508433	0.17	0.47	<0.05	1.9	0.29	0.93
3508434	0.23	0.64	0.15	0.5	0.13	0.28
3508435	0.15	0.55	0.08	0.3	0.13	0.13
3508436	0.16	0.48	0.12	0.3	0.15	0.15
3508437	0.50	0.65	0.14	2.2	0.36	1.19
3508438	0.54	0.68	0.11	2.4	0.41	1.27
3508439	0.10	0.48	0.06	0.3	0.25	0.14
3508440	1.47	0.90	0.25	19.5	1.01	6.03
3508441	0.13	0.53	0.08	0.4	0.24	0.22
3508442	0.10	0.47	0.08	0.2	0.19	0.09
3508443	0.10	0.48	0.09	0.3	0.16	0.11
3508444	0.09	0.47	0.18	0.2	0.25	0.65
3508445	0.08	0.49	0.17	0.3	0.28	1.58
3508446	0.07	0.45	0.20	<0.2	0.24	0.19
3508447	0.09	0.45	0.07	0.2	0.17	0.11
3508448	0.11	0.51	0.05	0.3	0.14	0.12
3508449	0.18	0.59	0.11	0.6	0.14	0.27
3508450	<0.05	<0.05	<0.05	<0.2	<0.02	0.08
3508451	0.11	0.54	<0.05	0.3	0.17	0.15
3508452	0.14	0.65	0.09	0.5	0.17	0.26
3508453	0.11	0.56	0.13	0.4	0.13	0.17
3508454	0.10	0.50	0.16	0.3	0.15	0.15
3508455	0.09	0.51	0.10	0.3	0.16	0.14
3508456	0.11	0.49	0.10	0.3	0.27	0.23

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508457	0.08	0.43	0.09	0.3	0.16	0.10
3508458	0.10	0.50	0.10	0.2	0.18	0.21
3508459	0.19	0.41	0.09	0.6	0.32	0.33
3508460	1.39	0.84	0.26	19.5	0.91	5.37
3508461	0.40	0.50	0.06	1.3	0.20	0.55
3508462	0.47	0.53	<0.05	1.3	0.09	0.67
3508463	0.46	0.53	0.11	1.4	0.21	0.76
3508464	0.45	0.52	0.31	1.3	0.27	0.66
3508465	0.14	0.51	<0.05	0.4	0.21	0.13
3508466	0.18	0.55	0.06	0.5	0.17	0.22
3508467	0.21	0.66	0.05	0.8	0.11	0.31
3508468	0.12	0.62	0.06	0.4	0.16	0.18
3508469	0.18	0.56	0.16	0.7	0.26	0.33
3508470	<0.05	<0.05	<0.05	<0.2	<0.02	0.12
3508471	0.14	0.46	0.07	0.2	0.18	0.12
3508472	0.15	0.49	0.13	0.2	0.18	0.14
3508473	0.18	0.50	0.09	0.5	0.15	0.22
3508474	0.11	0.42	0.07	0.2	0.22	0.16
*Dup 3508437	0.48	0.61	0.18	2.0	0.35	1.16
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	1.01	0.58	15.82	11.5	1.21	4.11
*Std OREAS 520	0.42	0.72	0.39	10.7	0.26	19.04
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.36	0.64	0.36	9.5	0.24	17.31
*Std OREAS 601	0.92	0.55	15.25	10.9	1.16	3.96
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.96	0.61	14.91	10.7	1.15	3.81
*Rep 3508424	0.21	0.56	0.12	0.7	0.16	0.29
*Std OREAS 520	0.38	0.71	0.36	9.4	0.24	17.18

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508399	0.5	19.7	1.8
3508400	3.8	25.4	2.4
3508401	0.9	16.8	1.5
3508402	1.0	16.3	1.5
3508403	10.2	15.3	1.3
3508404	0.7	15.4	1.4
3508405	1.1	16.8	1.6
3508406	0.7	15.9	1.5
3508407	0.7	15.0	1.3
3508408	1.2	17.5	1.6
3508409	1.3	17.8	1.6
3508410	<0.1	2.4	0.1
3508411	1.5	18.7	1.6
3508412	1.7	16.9	1.5
3508413	1.6	15.7	1.4
3508414	1.4	17.8	1.6
3508415	1.4	17.9	1.7
3508416	1.2	17.8	1.6
3508417	1.3	18.1	1.6
3508418	2.5	22.3	2.0
3508419	2.3	23.0	1.9
3508420	4.7	27.8	2.6
3508421	2.1	21.6	1.9
3508422	1.3	18.0	1.7
3508423	1.4	18.3	1.7
3508424	1.2	17.2	1.5
3508425	1.5	18.2	1.6
3508426	0.9	18.9	1.7
3508427	1.0	17.2	1.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508428	0.9	18.6	1.6
3508429	1.0	17.5	1.5
3508430	<0.1	2.7	0.2
3508431	1.5	18.1	1.6
3508432	1.0	14.6	1.3
3508433	1.0	14.2	1.3
3508434	1.6	18.1	1.8
3508435	1.1	15.1	1.5
3508436	1.9	12.9	1.3
3508437	4.2	18.5	1.8
3508438	2.3	20.1	1.9
3508439	1.4	13.1	1.3
3508440	4.6	25.2	2.7
3508441	1.2	14.8	1.4
3508442	1.7	13.2	1.4
3508443	2.0	13.6	1.4
3508444	1.9	13.1	1.3
3508445	2.7	13.9	1.3
3508446	2.0	12.4	1.2
3508447	1.0	12.5	1.3
3508448	1.0	14.4	1.4
3508449	1.4	16.6	1.6
3508450	0.1	1.9	0.1
3508451	0.8	15.4	1.5
3508452	1.0	18.5	1.7
3508453	0.7	16.3	1.6
3508454	0.9	14.2	1.4
3508455	1.0	14.3	1.4
3508456	1.3	13.3	1.3
3508457	0.8	12.4	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05204

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508458	0.9	13.6	1.4
3508459	1.3	11.7	1.2
3508460	4.5	24.2	2.5
3508461	2.0	14.2	1.4
3508462	2.5	14.8	1.5
3508463	1.8	15.0	1.5
3508464	2.0	15.1	1.5
3508465	0.6	14.1	1.3
3508466	0.7	14.5	1.4
3508467	0.8	18.4	1.8
3508468	0.6	17.3	1.6
3508469	1.1	16.0	1.5
3508470	<0.1	2.3	0.1
3508471	0.7	14.0	1.3
3508472	1.6	15.2	1.4
3508473	1.0	15.1	1.4
3508474	0.7	12.6	1.1
*Dup 3508437	3.8	17.9	1.7
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	6.0	11.4	0.7
*Std OREAS 520	48.4	21.4	2.4
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	43.8	20.0	2.2
*Std OREAS 601	5.6	10.8	0.7
*Blk BLANK	<0.1	0.2	<0.1
*Std OREAS 601	5.6	12.0	0.7
*Rep 3508424	1.3	17.3	1.5
*Std OREAS 520	46.8	22.0	2.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (153-228)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	76

ANALYSIS REPORT BBM20-05204

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05205

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	19-Oct-2020
Project	MT MILLIGAN	Date Analysed	22-Oct-2020 - 02-Nov-2020
Submission Number (229-241)	*BBY* MAX20_Core_15/ 241 Core	Date Completed	02-Nov-2020
		SGS Order Number	BBM20-05205
Number of Samples	13		

Methods Summary

Number of Sample	Method Code	Description
13	G_WGH_KG	Weight of samples received
12	G_PRP	Combined Sample Preparation
13	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
13	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
13	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml
13	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (229-241)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	13

ANALYSIS REPORT BBM20-05205

Element	Wtkg	@Au	@Ag	@As	@Be	@Bi
Method	G_WGH_KG	GE_FAA30V5	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.01	5	0.02	1	0.1	0.04
Upper Limit	--	10,000	100	10,000	2,500	10,000
Unit	kg	ppb	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508475	5.16	24	0.82	2	0.4	1.37
3508476	5.65	14	0.31	2	0.3	<0.04
3508477	5.31	18	0.40	2	0.4	0.14
3508478	5.55	62	0.75	2	0.3	0.05
3508479	5.73	42	0.57	2	0.3	<0.04
3508480	0.12	317	0.50	17	1.1	0.16
3508481	5.05	8	0.30	2	0.5	0.15
3508482	5.11	20	0.48	2	0.3	0.05
3508483	5.34	22	0.27	3	0.2	<0.04
3508484	5.65	18	0.19	4	0.3	0.15
3508485	5.64	13	0.57	3	0.3	0.10
3508486	5.47	16	0.74	3	0.3	0.08
3508487	5.08	17	0.43	3	0.3	0.07
*Std SL76	-	5640	-	-	-	-
*Rep 3508478	-	61	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Blk BLANK	-	-	0.03	<1	<0.1	<0.04
*Std OREAS 520	-	-	0.38	142	1.0	2.89
*Std OREAS 601	-	-	53.57	295	2.0	20.32

Element	@Cd	@Ce	@Co	@Cs	@Ga	@Hf
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.05	0.1	1	0.1	0.02
Upper Limit	10,000	1,000	10,000	1,000	1,000	500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508475	0.28	10.78	50.6	<1	20.0	1.22
3508476	0.18	9.76	49.3	<1	19.9	1.14
3508477	0.19	10.89	46.7	<1	21.1	0.92

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(229-241)
Number of Samples 13

ANALYSIS REPORT BBM20-05205

Element	@Cd	@Ce	@Co	@Cs	@Ga	@Hf
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.05	0.1	1	0.1	0.02
Upper Limit	10,000	1,000	10,000	1,000	1,000	500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508478	0.26	10.03	50.1	<1	22.0	1.01
3508479	0.29	9.77	55.5	<1	20.9	1.26
3508480	0.19	23.02	15.6	1	19.9	1.35
3508481	0.18	13.07	46.6	<1	21.3	1.16
3508482	0.28	10.09	48.4	<1	17.1	1.06
3508483	0.14	7.66	50.6	<1	20.5	0.99
3508484	0.14	10.37	50.8	<1	20.9	1.09
3508485	0.47	10.61	48.5	<1	19.7	1.38
3508486	0.50	10.45	52.4	<1	18.8	1.33
3508487	0.20	6.57	55.0	1	17.0	0.87
*Blk BLANK	<0.02	<0.05	<0.1	<1	<0.1	<0.02
*Std OREAS 520	0.06	83.04	190	<1	18.8	3.60
*Std OREAS 601	7.58	60.22	5.5	6	21.7	4.32

Element	@In	@La	@Lu	@Mo	@Nb	@Pb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.1	0.01	0.05	0.1	0.5
Upper Limit	500	10,000	1,000	10,000	1,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508475	0.09	4.7	0.22	4.37	2.6	102
3508476	0.08	3.9	0.22	3.36	2.0	2.2
3508477	0.07	4.9	0.19	6.01	2.0	3.7
3508478	0.08	4.3	0.20	1.11	2.0	2.5
3508479	0.09	3.9	0.23	1.29	2.2	2.0
3508480	0.10	11.3	0.35	10.38	3.2	7.1
3508481	0.08	5.9	0.21	2.32	3.1	6.1
3508482	0.08	4.1	0.22	1.62	2.0	1.9
3508483	0.07	3.1	0.19	1.09	1.5	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (229-241)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	13

ANALYSIS REPORT BBM20-05205

Element	@In	@La	@Lu	@Mo	@Nb	@Pb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.1	0.01	0.05	0.1	0.5
Upper Limit	500	10,000	1,000	10,000	1,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508484	0.09	4.5	0.20	3.73	2.2	3.2
3508485	0.09	4.2	0.25	2.22	2.9	2.5
3508486	0.10	4.2	0.25	2.28	2.9	2.6
3508487	0.06	2.7	0.17	3.09	1.7	2.8
*Blk BLANK	<0.02	<0.1	<0.01	<0.05	<0.1	<0.5
*Std OREAS 520	0.11	80.6	0.36	60.44	5.0	6.4
*Std OREAS 601	1.61	30.4	0.10	3.67	13.4	308

Element	@Rb	@Sc	@Se	@Sb	@Sn	@Ta
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.2	0.5	2	0.05	0.3	0.05
Upper Limit	10,000	10,000	1,000	10,000	1,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508475	20.3	50.4	<2	1.16	0.8	0.13
3508476	29.2	46.6	<2	0.67	0.7	0.11
3508477	34.6	37.3	<2	1.02	0.6	0.11
3508478	31.5	40.0	<2	0.86	0.6	0.11
3508479	30.8	50.7	<2	0.67	0.8	0.13
3508480	75.6	11.3	3	0.79	2.0	0.19
3508481	26.4	42.5	<2	1.15	0.9	0.16
3508482	18.5	49.2	<2	0.95	0.7	0.11
3508483	36.2	44.6	<2	1.09	0.6	0.09
3508484	24.3	42.9	<2	1.91	1.0	0.12
3508485	23.4	51.8	<2	1.42	1.1	0.16
3508486	19.0	52.8	<2	1.53	0.9	0.18
3508487	30.9	41.9	<2	2.43	0.6	0.09
*Blk BLANK	<0.2	<0.5	<2	<0.05	<0.3	<0.05
*Std OREAS 520	103	16.8	<2	3.16	4.1	0.36

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (229-241)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	13

ANALYSIS REPORT BBM20-05205

Element	@Rb	@Sc	@Se	@Sb	@Sn	@Ta
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.2	0.5	2	0.05	0.3	0.05
Upper Limit	10,000	10,000	1,000	10,000	1,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	89.4	5.0	11	31.28	3.7	0.92

Element	@Tb	@Te	@Th	@Tl	@U	@W
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.2	0.02	0.05	0.1
Upper Limit	10,000	1,000	10,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508475	0.53	0.12	0.3	0.08	0.26	0.9
3508476	0.52	0.06	0.3	0.12	0.15	0.5
3508477	0.48	0.10	0.3	0.13	0.15	1.2
3508478	0.46	0.11	0.3	0.12	0.13	0.4
3508479	0.52	0.07	0.3	0.12	0.11	0.5
3508480	0.56	0.08	1.8	0.23	1.22	0.9
3508481	0.53	0.07	0.5	0.11	0.27	1.0
3508482	0.48	0.07	0.3	0.09	0.16	0.6
3508483	0.44	0.05	0.2	0.15	0.08	0.6
3508484	0.48	0.09	0.3	0.10	0.16	1.1
3508485	0.56	0.09	0.3	0.09	0.14	1.0
3508486	0.54	0.09	0.4	0.07	0.18	0.8
3508487	0.36	0.11	<0.2	0.14	0.12	1.0
*Blk BLANK	<0.05	<0.05	<0.2	<0.02	<0.05	<0.1
*Std OREAS 520	0.64	0.36	9.5	0.24	17.31	43.8
*Std OREAS 601	0.55	15.25	10.9	1.16	3.96	5.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(229-241)
Number of Samples 13

ANALYSIS REPORT BBM20-05205

Element	@Y	@Yb	@Al	@Ba	@Ca	@Cr
Method	GE_IMS40Q12	GE_IMS40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.1	0.1	0.01	1	0.01	1
Upper Limit	10,000	1,000	15	10,000	15	10,000
Unit	ppm m / m	ppm m / m	%	ppm m / m	%	ppm m / m
3508475	16.3	1.5	6.17	358	10.07	33
3508476	15.6	1.5	6.60	356	9.29	32
3508477	14.5	1.3	8.30	449	8.93	11
3508478	14.1	1.3	7.68	339	9.60	16
3508479	16.4	1.5	6.28	379	9.58	34
3508480	19.8	2.2	8.94	1395	2.83	21
3508481	16.0	1.4	7.02	329	9.37	22
3508482	14.8	1.4	5.60	265	10.09	138
3508483	13.3	1.2	7.66	352	9.49	29
3508484	14.3	1.3	7.09	287	8.93	21
3508485	17.2	1.6	5.32	318	9.78	30
3508486	16.8	1.6	5.16	236	9.90	61
3508487	11.1	1.1	6.79	308	9.98	131
*Blk BLANK	<0.1	<0.1	<0.01	<1	<0.01	<1
*Std OREAS 520	20.0	2.2	5.79	765	3.88	35
*Std OREAS 601	10.8	0.7	6.60	867	1.31	27

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508475	237	12.23	0.72	17	5.10	2386
3508476	329	12.08	1.01	20	4.97	2163
3508477	445	9.91	1.17	24	4.20	2237
3508478	779	10.86	1.06	21	4.49	1886
3508479	755	12.43	1.02	24	5.11	2077
3508480	2381	5.93	4.35	14	1.25	638

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MT MILLIGAN
Submission Number *BBY* MAX20_Core_15/ 241 Core
(229-241)
Number of Samples 13

ANALYSIS REPORT BBM20-05205

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508481	254	10.92	0.85	22	4.46	2263
3508482	496	10.63	0.69	20	5.61	2066
3508483	320	10.76	1.21	27	4.86	1724
3508484	276	11.52	0.79	26	4.80	2227
3508485	563	13.91	0.80	23	5.22	2404
3508486	742	11.32	0.66	22	5.76	2371
3508487	581	9.73	1.06	33	6.50	2089
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Std OREAS 520	2913	>15.00	3.66	18	1.14	2282
*Std OREAS 601	1030	2.61	2.29	22	0.39	485

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508475	0.96	43	0.07	0.88	657	0.79
3508476	1.08	36	0.07	0.29	573	0.82
3508477	1.37	24	0.11	1.33	824	0.68
3508478	1.08	28	0.08	0.31	765	0.67
3508479	0.80	39	0.06	0.26	536	0.75
3508480	3.15	14	0.12	0.32	528	0.32
3508481	1.38	29	0.10	1.08	666	0.71
3508482	0.99	50	0.08	0.42	502	0.66
3508483	0.95	35	0.04	0.20	562	0.63
3508484	1.05	32	0.06	1.41	678	0.69
3508485	0.78	41	0.06	0.50	491	0.83
3508486	1.11	42	0.05	0.52	466	0.69

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (229-241)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	13

ANALYSIS REPORT BBM20-05205

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508487	0.70	50	0.03	0.35	637	0.50
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 520	1.39	78	0.07	1.02	102	0.38
*Std OREAS 601	1.52	25	0.05	1.12	238	0.18

Element	@V	@Zn	@Zr
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	2	1	0.5
Upper Limit	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508475	615	149	27.2
3508476	609	127	25.8
3508477	513	114	20.2
3508478	530	122	22.3
3508479	594	140	29.0
3508480	240	50	41.6
3508481	527	137	24.4
3508482	508	121	25.9
3508483	511	108	22.3
3508484	577	142	24.5
3508485	661	175	29.8
3508486	550	138	28.6
3508487	423	122	20.0
*Blk BLANK	<2	<1	<0.5
*Std OREAS 520	262	23	130
*Std OREAS 601	28	1298	154

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MT MILLIGAN
Submission Number (229-241)	*BBY* MAX20_Core_15/ 241 Core
Number of Samples	13

ANALYSIS REPORT BBM20-05205

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05206

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	19-Oct-2020
Submission Number (77-152)	*BBY* MAX20_Core_14/ 246 Cores	Date Analysed	22-Oct-2020 - 05-Nov-2020
		Date Completed	05-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05206

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508077	5.04	13	7.99	1107	6.57	51
3508078	5.15	20	7.67	1125	6.55	54
3508079	4.47	65	5.79	858	9.79	24
3508080	0.13	664	7.64	934	2.54	58
3508081	3.85	37	5.34	474	13.30	22
3508082	3.13	14	8.48	1330	4.96	44
3508083	4.91	15	8.51	1342	4.79	7
3508084	3.69	7	8.56	1683	4.46	8
3508085	5.08	31	7.58	498	4.93	11
3508086	5.05	12	9.01	1269	5.00	32
3508087	5.06	22	8.31	913	4.78	49
3508088	5.27	31	7.65	600	5.17	70
3508089	5.41	6	7.68	575	7.07	61
3508090	1.48	7	0.07	12	>15.00	1
3508091	3.95	11	7.82	833	7.06	52
3508092	3.69	8	8.20	1079	6.17	50
3508093	5.40	5	6.47	1595	6.29	306
3508094	4.79	10	6.71	1466	6.45	345
3508095	-	9	6.68	1518	6.34	370
3508096	5.05	<5	8.73	969	5.65	53
3508097	4.94	6	8.84	1474	4.93	31
3508098	5.09	7	8.26	1501	5.48	110
3508099	5.11	7	8.65	1520	5.68	29
3508100	0.13	213	7.91	1007	2.59	69
3508101	4.97	9	9.02	1434	6.39	30
3508102	4.83	10	8.85	1230	5.93	39
3508103	3.51	11	8.76	1258	6.38	50
3508104	6.76	13	8.84	1100	6.10	14
3508105	4.60	<5	8.85	1504	5.28	53

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508106	5.83	13	8.68	1161	5.31	14
3508107	3.79	<5	8.59	1049	6.60	26
3508108	6.25	22	8.80	1230	5.50	9
3508109	4.63	6	8.07	986	6.45	37
3508110	1.41	<5	0.08	12	>15.00	1
3508111	4.90	6	8.42	1234	5.82	28
3508112	4.98	8	8.25	955	6.18	23
3508113	5.25	8	7.94	987	6.19	13
3508114	5.08	69	8.75	1018	5.75	18
3508115	5.13	9	8.41	754	6.48	44
3508116	5.09	33	8.21	1096	5.61	34
3508117	5.26	5	8.11	1092	6.50	39
3508118	5.34	6	8.51	915	5.86	51
3508119	4.77	<5	8.22	1093	5.29	22
3508120	0.13	211	7.86	941	2.45	62
3508121	5.37	18	8.60	911	5.71	27
3508122	4.11	15	8.64	1233	4.87	34
3508123	3.83	48	8.15	1185	5.51	36
3508124	3.32	20	8.61	1510	3.05	10
3508125	3.55	16	8.10	1358	4.40	26
3508126	4.86	18	8.42	1215	5.09	15
3508127	4.80	15	8.71	1395	4.09	24
3508128	2.99	14	7.92	1220	3.84	28
3508129	4.08	15	8.22	1157	2.41	9
3508130	1.51	11	0.08	13	>15.00	<1
3508131	4.50	7	8.52	1621	2.39	9
3508132	3.70	11	8.31	1536	2.21	8
3508133	6.54	27	6.86	463	4.38	7
3508134	5.05	10	8.25	1163	5.79	4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508135	-	15	8.23	1137	5.82	3
3508136	4.97	12	8.00	951	5.73	6
3508137	4.51	12	7.84	1034	5.60	20
3508138	4.80	13	8.42	976	6.26	4
3508139	4.88	7	8.58	897	6.14	3
3508140	0.13	222	7.80	957	2.45	69
3508141	4.62	23	8.21	1118	5.10	9
3508142	4.81	8	8.55	1089	6.12	4
3508143	4.94	13	8.69	995	5.84	4
3508144	4.97	13	8.53	1215	6.14	4
3508145	4.80	11	8.79	965	6.34	3
3508146	4.89	17	8.60	993	5.86	4
3508147	4.75	13	8.78	1022	5.64	4
3508148	4.81	10	8.56	1003	6.80	5
3508149	4.89	12	8.43	1088	6.34	12
3508150	1.44	12	0.07	21	>15.00	<1
3508151	4.88	16	8.34	929	6.83	5
3508152	4.75	7	8.57	1063	5.87	4
*Dup 3508115	-	9	7.91	703	5.99	42
*Std OREAS 601	-	-	6.38	1211	1.29	34
*Std OREAS 520	-	-	5.76	990	3.92	35
*Blk BLANK	-	-	0.01	2	0.01	<1
*Std OREAS 520	-	-	5.76	1064	3.74	32
*Std OREAS 601	-	-	6.42	1398	1.20	36
*Rep 3508146	-	-	8.69	1016	5.99	3
*Blk BLANK	-	<5	-	-	-	-
*Std GS-9B	-	8730	-	-	-	-
*Blk BLANK	-	7	-	-	-	-
*Std OXG123	-	981	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std SL76	-	5770	-	-	-	-
*Blk BLANK	-	8	-	-	-	-
*Rep 3508079	-	62	-	-	-	-
*Rep 3508126	-	23	-	-	-	-
*Blk BLANK	-	10	-	-	-	-
*Std OXG123	-	1020	-	-	-	-
*Std SL76	-	5820	-	-	-	-
*Rep 3508148	-	11	-	-	-	-
*Std OREAS 520	-	-	5.76	996	3.88	36
*Rep 3508097	-	-	8.78	1474	4.86	28
*Std OREAS 601	-	-	6.35	1309	1.29	26
*Blk BLANK	-	-	<0.01	<1	<0.01	<1

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508077	192	6.49	2.50	33	3.20	1616
3508078	243	6.82	2.75	38	3.14	2038
3508079	188	5.37	4.29	26	2.06	3086
3508080	5172	4.64	3.10	32	1.40	515
3508081	296	5.73	3.39	29	2.00	3727
3508082	166	6.07	4.35	29	1.89	2161
3508083	122	5.86	3.73	18	1.77	1679
3508084	156	5.76	5.44	21	1.58	1779
3508085	366	5.98	4.95	22	1.73	1787
3508086	218	6.32	3.21	33	2.15	1337
3508087	247	7.46	4.15	53	3.39	1825

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508088	204	7.73	4.23	47	3.56	2123
3508089	241	7.48	1.84	38	3.80	1708
3508090	1.7	0.18	0.01	<1	2.61	168
3508091	193	7.17	1.85	29	3.36	1630
3508092	235	6.73	2.19	35	3.24	1681
3508093	182	7.04	3.51	49	6.07	1539
3508094	258	7.24	3.43	56	6.30	1437
3508095	226	7.24	3.57	55	6.25	1413
3508096	233	6.34	2.45	37	2.76	1195
3508097	289	6.23	3.03	34	2.20	1135
3508098	266	6.35	3.52	37	3.08	1438
3508099	241	6.17	2.74	35	2.22	1305
3508100	2780	4.25	3.44	37	1.50	535
3508101	220	6.33	3.14	32	2.23	1425
3508102	229	6.62	2.86	32	2.51	1327
3508103	249	6.27	2.54	23	2.55	1271
3508104	372	6.94	2.55	32	2.56	1416
3508105	408	6.64	3.23	30	2.46	1413
3508106	440	6.39	3.37	40	2.52	1440
3508107	302	6.55	2.61	36	2.77	1551
3508108	318	6.93	3.26	40	2.53	1460
3508109	403	6.67	2.79	40	3.09	1596
3508110	1.0	0.20	0.01	1	2.65	167
3508111	211	6.29	3.19	34	2.54	1666
3508112	365	7.04	2.50	44	2.93	1866
3508113	358	7.24	3.11	66	2.74	1896
3508114	324	7.15	2.61	48	2.74	1336
3508115	295	7.74	2.15	47	3.51	1471
3508116	278	6.24	2.62	26	2.71	1327

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508117	209	6.38	2.07	27	3.04	1328
3508118	227	6.88	2.35	39	2.90	1425
3508119	238	5.96	3.32	30	2.29	1749
3508120	2740	4.38	3.49	38	1.45	489
3508121	297	6.62	2.20	33	2.52	1369
3508122	260	6.23	2.93	30	2.19	1218
3508123	397	6.90	2.96	35	2.73	1483
3508124	141	5.04	4.29	12	1.49	903
3508125	206	6.55	2.89	24	2.33	1269
3508126	270	6.83	2.95	28	2.60	1258
3508127	165	5.89	3.12	20	2.16	1184
3508128	169	6.26	3.81	29	2.24	1747
3508129	210	4.03	4.97	8	1.21	934
3508130	1.7	0.20	0.02	1	2.77	164
3508131	46.5	4.10	4.75	4	1.15	850
3508132	68.2	3.96	5.31	7	1.14	1054
3508133	3866	7.88	5.92	18	2.23	2185
3508134	437	8.15	2.66	33	2.85	1699
3508135	428	7.97	2.63	32	2.78	1651
3508136	511	8.39	2.53	35	2.93	2086
3508137	491	7.43	2.55	34	2.76	1862
3508138	376	7.81	2.33	43	2.79	1843
3508139	306	8.09	2.80	54	2.92	2039
3508140	2723	4.31	3.47	37	1.47	506
3508141	734	8.34	3.79	56	3.12	3400
3508142	240	8.22	2.69	47	2.99	2090
3508143	144	7.81	2.40	45	2.83	1549
3508144	197	7.92	2.27	37	2.76	1608
3508145	230	7.96	1.81	37	2.86	1591

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508146	272	8.01	2.65	48	2.87	1874
3508147	344	7.67	2.46	44	2.78	1710
3508148	366	8.12	2.00	39	2.87	1709
3508149	580	7.88	2.37	41	2.92	2043
3508150	1.4	0.17	0.01	1	2.17	161
3508151	354	8.67	1.77	35	2.93	1700
3508152	521	7.98	2.49	38	2.68	1718
*Dup 3508115	248	7.25	2.09	45	3.35	1339
*Std OREAS 601	981	2.54	2.23	22	0.38	479
*Std OREAS 520	2910	>15.00	3.67	18	1.15	2363
*Blk BLANK	1.0	0.02	<0.01	<1	<0.01	4
*Std OREAS 520	2876	>15.00	3.71	19	1.11	2208
*Std OREAS 601	981	2.46	2.21	22	0.36	449
*Rep 3508146	278	8.13	2.67	49	2.90	1887
*Std OREAS 520	2899	14.90	3.67	18	1.13	2291
*Rep 3508097	285	6.28	2.98	34	2.20	1132
*Std OREAS 601	1000	2.39	2.22	22	0.38	469
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508077	2.56	24	0.15	0.95	830	0.45
3508078	2.41	25	0.16	1.82	599	0.44
3508079	1.81	18	0.12	2.97	311	0.32
3508080	2.08	34	0.11	0.89	359	0.48
3508081	1.58	19	0.10	2.66	382	0.37

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508082	3.30	23	0.20	2.04	486	0.48
3508083	2.59	9	0.20	1.24	454	0.47
3508084	2.53	9	0.21	1.70	480	0.47
3508085	2.62	10	0.17	3.12	403	0.39
3508086	3.12	16	0.18	1.04	710	0.45
3508087	2.39	30	0.17	2.96	429	0.68
3508088	2.14	35	0.15	3.74	314	0.70
3508089	2.79	36	0.15	0.73	579	0.73
3508090	0.04	<1	<0.01	0.01	74.0	<0.01
3508091	2.69	29	0.15	0.40	909	0.70
3508092	2.95	30	0.15	0.72	830	0.61
3508093	1.53	150	0.20	0.18	461	0.33
3508094	1.45	151	0.21	0.15	582	0.34
3508095	1.45	151	0.20	0.13	555	0.34
3508096	3.53	26	0.17	0.71	1162	0.43
3508097	3.15	18	0.18	0.89	852	0.41
3508098	2.68	50	0.19	1.06	744	0.40
3508099	2.97	18	0.19	0.82	866	0.43
3508100	2.13	58	0.10	0.38	325	0.48
3508101	2.68	19	0.18	0.86	879	0.41
3508102	2.67	20	0.18	0.56	865	0.46
3508103	2.50	22	0.18	0.61	1077	0.42
3508104	2.82	16	0.17	0.74	895	0.49
3508105	2.88	21	0.18	0.89	872	0.43
3508106	2.97	16	0.16	1.19	847	0.48
3508107	2.77	21	0.19	1.15	974	0.48
3508108	2.89	13	0.16	1.13	653	0.52
3508109	2.86	23	0.18	0.85	705	0.49
3508110	0.04	<1	<0.01	0.01	71.8	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508111	2.91	19	0.17	1.30	689	0.44
3508112	2.99	19	0.18	1.30	728	0.52
3508113	2.97	15	0.20	1.87	653	0.50
3508114	2.97	15	0.17	0.60	880	0.53
3508115	2.84	25	0.16	0.49	745	0.66
3508116	3.05	19	0.14	0.40	783	0.45
3508117	2.81	23	0.15	0.53	1076	0.45
3508118	2.98	23	0.17	0.56	986	0.48
3508119	3.25	18	0.16	0.63	906	0.42
3508120	2.20	54	0.09	0.34	325	0.47
3508121	3.39	20	0.15	0.78	903	0.47
3508122	3.36	22	0.15	0.59	889	0.49
3508123	3.01	21	0.15	0.78	848	0.50
3508124	3.76	8	0.11	0.57	562	0.38
3508125	3.56	16	0.17	0.50	918	0.51
3508126	3.00	17	0.16	0.28	953	0.54
3508127	3.45	14	0.15	0.29	825	0.48
3508128	3.06	16	0.14	1.86	527	0.46
3508129	3.13	6	0.09	1.56	422	0.30
3508130	0.05	<1	<0.01	0.01	74.3	<0.01
3508131	3.75	5	0.09	0.78	455	0.29
3508132	3.59	5	0.09	0.96	336	0.30
3508133	1.55	11	0.13	3.17	276	0.43
3508134	2.67	12	0.18	0.43	971	0.58
3508135	2.74	11	0.18	0.42	989	0.56
3508136	2.75	13	0.16	0.88	864	0.54
3508137	2.82	15	0.16	0.67	740	0.47
3508138	2.82	11	0.18	0.57	839	0.53
3508139	2.48	11	0.17	1.09	759	0.59

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508140	2.18	53	0.09	0.36	322	0.47
3508141	2.36	13	0.17	1.60	604	0.55
3508142	2.45	12	0.17	0.96	984	0.58
3508143	2.64	12	0.17	0.48	919	0.57
3508144	2.81	11	0.18	0.61	907	0.56
3508145	2.69	12	0.18	0.61	1005	0.59
3508146	2.68	12	0.17	1.00	730	0.57
3508147	3.00	11	0.17	0.77	732	0.58
3508148	2.67	12	0.17	0.83	869	0.59
3508149	2.80	16	0.17	1.46	762	0.55
3508150	0.04	<1	<0.01	0.01	78.4	<0.01
3508151	2.54	13	0.20	0.95	753	0.57
3508152	2.92	14	0.17	0.81	712	0.55
*Dup 3508115	2.64	24	0.14	0.42	701	0.63
*Std OREAS 601	1.47	25	0.05	1.13	228	0.17
*Std OREAS 520	1.39	78	0.07	1.01	102	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 520	1.47	69	0.07	0.96	105	0.41
*Std OREAS 601	1.52	26	0.04	1.07	231	0.17
*Rep 3508146	2.73	12	0.17	1.02	744	0.57
*Std OREAS 520	1.40	79	0.07	1.02	104	0.41
*Rep 3508097	3.12	17	0.19	0.89	848	0.42
*Std OREAS 601	1.47	22	0.05	1.13	231	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508077	314	116	14.9	0.36	12	1.1
3508078	326	281	15.1	0.56	34	1.4
3508079	272	450	12.9	2.34	75	2.5
3508080	123	69	84.3	1.39	88	2.8
3508081	237	266	11.4	2.33	56	1.9
3508082	235	200	43.2	0.54	33	1.7
3508083	220	130	47.6	0.50	14	1.6
3508084	230	134	53.1	0.51	22	1.4
3508085	237	223	31.2	0.82	82	2.7
3508086	222	71	11.1	0.38	15	1.2
3508087	329	140	16.9	0.48	68	1.4
3508088	332	133	19.2	0.47	91	1.6
3508089	329	88	17.4	0.37	6	1.0
3508090	<2	4	1.4	0.04	<1	<0.1
3508091	322	73	18.7	0.31	6	1.1
3508092	312	81	16.0	0.41	5	1.0
3508093	253	70	34.5	0.28	3	1.2
3508094	265	63	34.9	0.32	6	1.3
3508095	258	61	34.2	0.29	4	1.2
3508096	263	72	12.8	0.31	3	1.1
3508097	228	62	9.8	0.37	3	1.0
3508098	246	90	13.3	0.41	6	1.4
3508099	260	74	12.5	0.45	3	1.0
3508100	126	75	68.4	0.60	26	3.4
3508101	231	85	12.4	0.73	6	1.0
3508102	265	76	11.4	0.28	3	1.0
3508103	244	69	12.6	0.28	4	0.9
3508104	315	116	11.3	0.41	4	1.3
3508105	242	100	9.9	0.64	6	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508106	304	150	9.4	0.75	9	1.7
3508107	310	84	18.8	0.40	4	1.3
3508108	329	101	13.0	0.45	8	1.5
3508109	349	97	18.7	0.66	5	1.5
3508110	2	5	1.3	0.04	<1	<0.1
3508111	300	110	17.9	0.33	12	1.5
3508112	343	102	15.9	0.47	3	1.0
3508113	355	165	10.6	0.61	7	1.9
3508114	308	93	12.7	0.64	7	1.0
3508115	329	98	16.5	0.25	5	1.1
3508116	263	83	19.9	0.29	4	1.1
3508117	281	79	20.2	0.19	4	1.1
3508118	304	140	16.7	0.25	5	1.4
3508119	294	315	15.2	0.39	4	3.1
3508120	113	76	71.2	0.42	25	3.5
3508121	291	115	16.8	0.30	4	1.4
3508122	297	99	12.5	0.28	4	1.2
3508123	328	534	12.5	1.85	6	1.9
3508124	182	78	21.2	0.07	3	1.4
3508125	312	193	15.1	0.15	2	1.6
3508126	321	98	14.0	0.22	4	1.3
3508127	249	85	16.7	0.15	5	1.3
3508128	277	139	19.2	0.31	25	1.9
3508129	134	89	30.9	0.31	10	1.4
3508130	<2	4	1.2	<0.02	<1	<0.1
3508131	135	41	37.5	0.05	3	1.6
3508132	142	62	36.4	0.11	2	2.0
3508133	426	1792	14.4	4.78	9	4.4
3508134	364	171	13.3	0.41	6	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508135	355	161	13.3	0.40	5	1.6
3508136	365	389	13.4	0.87	4	2.6
3508137	309	194	12.7	0.74	4	1.6
3508138	345	141	11.4	0.47	3	1.3
3508139	357	152	9.8	0.39	4	1.3
3508140	119	79	65.9	0.45	27	3.6
3508141	368	2082	12.0	2.26	5	2.0
3508142	358	999	11.7	0.46	5	1.0
3508143	344	99	11.7	0.24	5	0.7
3508144	342	120	12.1	0.29	6	1.0
3508145	351	128	13.3	0.29	6	0.8
3508146	360	172	10.5	0.48	7	1.2
3508147	342	221	10.9	0.44	6	1.2
3508148	356	143	11.8	0.34	5	0.9
3508149	341	122	14.0	0.60	5	1.2
3508150	<2	3	1.9	<0.02	1	<0.1
3508151	391	120	13.2	0.36	5	0.8
3508152	368	123	13.5	0.48	4	1.0
*Dup 3508115	309	87	16.9	0.24	3	0.9
*Std OREAS 601	29	1258	154	50.97	303	2.3
*Std OREAS 520	274	22	127	0.39	166	1.2
*Blk BLANK	<2	1	<0.5	0.05	<1	<0.1
*Std OREAS 520	247	22	125	0.39	157	1.3
*Std OREAS 601	26	1288	151	51.05	329	2.4
*Rep 3508146	362	176	10.9	0.45	7	1.2
*Std OREAS 520	268	22	127	0.48	161	1.2
*Rep 3508097	228	61	9.7	0.38	4	1.1
*Std OREAS 601	28	1258	154	53.71	327	2.3
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508077	0.25	1.01	19.41	30.3	1	17.0
3508078	0.77	3.43	18.92	32.4	2	17.5
3508079	4.37	7.62	16.83	24.0	2	14.3
3508080	1.35	0.79	66.65	17.6	11	17.8
3508081	4.63	3.87	19.56	23.3	2	13.8
3508082	0.16	0.53	25.27	28.0	3	18.4
3508083	0.47	0.79	26.25	25.4	2	17.4
3508084	0.54	0.64	27.00	26.5	1	17.9
3508085	0.39	3.19	21.70	24.8	1	18.1
3508086	0.05	0.18	23.05	25.8	2	18.5
3508087	0.17	1.13	23.69	41.5	4	20.1
3508088	0.24	1.08	23.70	37.9	4	18.7
3508089	<0.04	0.18	24.03	38.8	2	18.8
3508090	<0.04	<0.02	1.05	2.1	<1	0.3
3508091	<0.04	0.18	24.20	35.4	1	18.3
3508092	0.04	0.18	22.86	32.9	2	18.0
3508093	<0.04	0.08	19.65	50.5	5	13.7
3508094	<0.04	0.08	20.69	54.6	5	14.6
3508095	<0.04	0.07	19.89	52.4	5	14.5
3508096	0.04	0.13	20.85	30.3	2	18.2
3508097	<0.04	0.15	22.21	30.5	2	18.7
3508098	0.14	0.22	21.19	36.3	3	17.4
3508099	0.05	0.18	22.34	28.4	1	18.9
3508100	0.67	0.35	74.52	17.0	12	19.3
3508101	1.11	0.27	21.31	26.9	1	19.1
3508102	0.04	0.22	21.72	29.8	1	19.1
3508103	0.04	0.21	19.11	26.0	<1	16.7
3508104	0.04	1.19	21.54	32.4	1	19.8
3508105	0.32	0.34	22.01	33.6	1	19.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508106	0.61	1.88	20.73	32.0	3	21.0
3508107	0.05	0.26	25.12	31.8	2	19.4
3508108	0.04	0.30	18.67	28.9	2	18.9
3508109	0.48	0.39	22.52	33.9	2	18.2
3508110	<0.04	<0.02	0.99	2.2	<1	0.3
3508111	0.07	0.78	24.04	29.3	2	18.1
3508112	0.08	0.30	22.57	34.7	2	18.5
3508113	0.15	1.03	21.64	32.0	4	19.1
3508114	0.06	0.31	19.23	33.4	2	20.2
3508115	<0.04	0.34	20.03	36.9	2	19.9
3508116	<0.04	0.40	20.27	29.0	<1	19.1
3508117	<0.04	0.27	22.96	30.6	<1	18.3
3508118	0.16	1.16	23.13	31.0	1	19.7
3508119	0.44	4.74	23.65	25.8	2	19.1
3508120	0.63	0.41	67.95	16.6	13	19.2
3508121	0.05	0.78	22.86	29.2	<1	20.0
3508122	<0.04	0.32	22.72	27.0	1	21.1
3508123	4.53	14.42	19.25	32.4	2	20.7
3508124	0.08	0.38	22.48	14.7	<1	21.1
3508125	0.09	3.36	28.30	24.8	<1	21.0
3508126	0.04	0.40	24.70	30.2	<1	21.6
3508127	<0.04	0.28	25.25	23.1	<1	21.4
3508128	0.09	0.87	25.68	22.2	1	21.1
3508129	0.08	0.54	22.51	15.1	<1	19.2
3508130	<0.04	0.03	0.96	3.6	<1	0.2
3508131	0.05	0.09	23.36	9.8	<1	20.2
3508132	0.08	0.15	23.05	10.0	<1	19.8
3508133	2.88	42.72	16.34	52.7	3	20.5
3508134	0.22	1.26	18.97	36.4	3	20.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508135	0.19	1.08	18.67	36.1	3	20.6
3508136	0.85	6.51	17.22	38.7	2	21.8
3508137	0.30	1.88	17.06	35.5	2	19.8
3508138	0.06	0.56	18.10	35.5	2	21.3
3508139	<0.04	0.39	17.61	38.0	4	22.2
3508140	0.64	0.43	67.70	16.9	13	19.5
3508141	2.60	38.53	17.09	42.5	4	22.2
3508142	0.44	12.56	16.75	38.8	2	21.7
3508143	<0.04	0.16	17.32	36.6	2	20.7
3508144	0.04	0.22	18.09	36.9	1	21.1
3508145	<0.04	0.24	18.02	39.3	1	21.1
3508146	0.05	0.61	18.41	39.5	3	22.1
3508147	0.05	0.95	18.40	37.7	2	22.0
3508148	0.06	0.56	17.79	40.6	2	21.7
3508149	0.05	0.48	17.83	46.0	2	21.2
3508150	<0.04	<0.02	1.00	3.9	<1	0.2
3508151	<0.04	0.29	19.53	36.6	<1	22.9
3508152	<0.04	0.42	18.10	39.5	2	23.1
*Dup 3508115	<0.04	0.30	18.59	34.2	2	18.1
*Std OREAS 601	19.99	7.67	60.89	5.6	7	20.6
*Std OREAS 520	2.84	0.11	83.84	193	<1	19.3
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.1
*Std OREAS 520	2.78	0.20	82.18	216	<1	19.6
*Std OREAS 601	19.40	8.42	58.20	5.9	7	21.5
*Rep 3508146	0.05	0.62	18.33	39.7	2	21.9
*Std OREAS 520	2.86	0.12	87.84	201	<1	18.2
*Rep 3508097	<0.04	0.17	21.63	30.8	2	18.9
*Std OREAS 601	20.67	8.04	65.22	5.8	7	21.0
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508077	0.74	0.07	9.4	0.23	3.94	3.6
3508078	0.74	0.07	9.2	0.23	8.01	3.5
3508079	0.59	0.07	8.3	0.21	17.47	2.7
3508080	2.66	0.10	34.3	0.35	362	21.5
3508081	0.46	0.08	9.5	0.22	7.03	3.8
3508082	1.14	0.05	12.1	0.25	10.21	7.5
3508083	1.48	0.05	12.7	0.26	7.33	7.4
3508084	1.40	0.05	12.8	0.27	3.90	7.6
3508085	1.04	0.08	10.1	0.23	7.77	6.2
3508086	0.54	0.06	11.4	0.26	5.88	5.7
3508087	0.72	0.07	10.6	0.31	5.36	7.3
3508088	0.84	0.08	10.4	0.32	4.92	6.8
3508089	0.85	0.09	10.7	0.34	5.20	7.2
3508090	0.04	<0.02	1.2	0.02	0.10	0.1
3508091	0.83	0.09	10.9	0.34	6.84	7.8
3508092	0.79	0.08	10.7	0.29	13.96	7.0
3508093	1.09	0.05	9.9	0.18	6.58	2.9
3508094	1.15	0.05	10.4	0.20	5.91	3.1
3508095	1.12	0.05	9.8	0.19	5.83	3.1
3508096	0.61	0.06	10.1	0.24	8.83	4.9
3508097	0.57	0.06	11.1	0.25	6.44	5.6
3508098	0.65	0.06	10.4	0.23	5.71	5.0
3508099	0.66	0.07	11.2	0.26	9.48	5.2
3508100	2.35	0.08	37.4	0.38	108	20.4
3508101	0.63	0.06	10.3	0.25	4.77	5.6
3508102	0.62	0.06	10.8	0.25	3.95	5.8
3508103	0.57	0.06	9.3	0.22	5.74	4.9
3508104	0.63	0.07	10.6	0.25	2.91	5.2
3508105	0.58	0.07	10.8	0.25	5.74	5.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508106	0.58	0.08	10.2	0.23	4.49	5.6
3508107	0.91	0.07	12.4	0.25	3.76	4.4
3508108	0.64	0.08	9.1	0.24	5.01	5.9
3508109	0.96	0.10	10.9	0.27	4.81	3.8
3508110	0.03	<0.02	1.2	0.03	<0.05	0.1
3508111	0.86	0.07	11.7	0.26	4.73	4.5
3508112	0.83	0.09	11.1	0.26	7.33	4.0
3508113	0.62	0.09	10.5	0.24	5.30	5.0
3508114	0.69	0.10	9.7	0.25	6.22	5.4
3508115	0.84	0.09	9.5	0.29	5.41	5.2
3508116	0.89	0.08	10.2	0.27	8.82	5.7
3508117	0.95	0.07	11.5	0.26	3.47	4.3
3508118	0.84	0.06	11.6	0.26	3.09	4.3
3508119	0.78	0.07	12.1	0.25	2.58	5.0
3508120	2.50	0.08	34.0	0.39	105	19.4
3508121	0.92	0.07	11.5	0.27	3.30	5.4
3508122	0.67	0.06	11.2	0.29	4.87	4.7
3508123	0.70	0.07	9.4	0.25	2.82	5.2
3508124	0.92	0.10	11.8	0.28	5.91	8.1
3508125	0.81	0.09	14.3	0.29	5.07	4.5
3508126	0.80	0.08	12.5	0.29	4.25	4.5
3508127	0.79	0.08	13.1	0.28	6.17	5.8
3508128	0.92	0.10	13.5	0.28	8.56	5.3
3508129	1.08	0.06	12.3	0.25	9.49	8.9
3508130	0.04	<0.02	1.1	0.02	0.08	0.1
3508131	1.41	0.06	12.8	0.28	9.69	9.8
3508132	1.24	0.06	12.4	0.27	13.90	9.8
3508133	0.73	0.13	8.3	0.22	9.40	6.1
3508134	0.78	0.10	9.3	0.26	2.24	5.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508135	0.76	0.09	9.2	0.26	2.20	4.9
3508136	0.82	0.09	8.4	0.26	1.54	5.3
3508137	0.75	0.08	8.3	0.26	3.68	4.4
3508138	0.68	0.09	8.9	0.25	3.18	5.0
3508139	0.63	0.08	8.6	0.25	2.17	4.3
3508140	2.38	0.08	33.6	0.40	106	19.5
3508141	0.76	0.09	8.5	0.23	0.74	4.1
3508142	0.65	0.08	8.2	0.23	2.72	3.7
3508143	0.68	0.07	8.5	0.24	2.95	4.1
3508144	0.75	0.08	8.8	0.24	2.75	4.5
3508145	0.78	0.07	8.6	0.25	3.83	4.2
3508146	0.72	0.08	8.8	0.26	2.17	4.4
3508147	0.66	0.07	8.9	0.25	2.39	4.7
3508148	0.73	0.07	8.6	0.26	3.13	4.6
3508149	0.76	0.08	8.4	0.24	2.37	5.0
3508150	0.06	<0.02	1.2	0.02	<0.05	0.1
3508151	0.77	0.08	9.3	0.27	2.58	4.8
3508152	0.72	0.07	8.5	0.25	3.47	5.8
*Dup 3508115	0.77	0.08	8.8	0.28	4.58	4.9
*Std OREAS 601	4.26	1.82	32.9	0.10	3.91	13.8
*Std OREAS 520	3.67	0.13	83.6	0.37	66.78	5.3
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 520	3.90	0.13	84.2	0.38	66.89	5.2
*Std OREAS 601	4.54	1.86	29.6	0.11	4.13	13.2
*Rep 3508146	0.72	0.08	8.9	0.26	1.97	4.4
*Std OREAS 520	3.89	0.13	87.4	0.36	68.26	5.6
*Rep 3508097	0.53	0.06	10.7	0.24	7.03	5.6
*Std OREAS 601	4.80	1.93	33.4	0.10	3.93	13.8
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508077	38.4	57.3	33.1	<2	1.44	1.0
3508078	89.5	82.3	34.9	2	1.27	1.0
3508079	1162	89.6	24.4	4	1.63	0.8
3508080	20.5	194	13.1	4	3.62	3.7
3508081	578	97.6	21.1	3	1.43	0.9
3508082	37.2	117	19.5	<2	1.27	1.3
3508083	45.0	89.4	17.4	<2	0.89	1.0
3508084	52.9	108	18.6	<2	1.28	0.9
3508085	102	100	16.0	2	2.03	1.1
3508086	9.0	87.0	19.7	<2	0.92	1.1
3508087	32.8	131	34.8	3	1.58	1.3
3508088	45.2	121	38.3	2	1.67	1.2
3508089	4.8	58.6	41.1	<2	0.96	1.2
3508090	0.7	0.4	<0.5	<2	0.06	<0.3
3508091	3.8	46.0	38.4	<2	2.00	1.2
3508092	4.7	55.6	33.4	<2	1.08	1.1
3508093	2.2	108	33.8	<2	0.87	0.6
3508094	2.4	119	34.4	<2	1.05	0.7
3508095	2.4	118	33.6	<2	0.97	0.7
3508096	5.0	67.3	26.1	<2	0.89	1.0
3508097	5.5	75.8	19.2	<2	0.85	1.0
3508098	13.3	91.3	24.9	<2	0.89	1.0
3508099	4.3	64.7	23.2	<2	0.62	1.2
3508100	21.3	214	15.0	2	2.47	3.8
3508101	58.1	67.2	19.5	<2	0.78	1.0
3508102	4.9	68.2	24.1	<2	0.62	1.0
3508103	4.7	40.9	21.5	<2	0.90	0.9
3508104	4.8	59.1	24.9	<2	0.86	0.8
3508105	20.1	69.0	23.5	<2	1.12	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508106	58.8	102	22.9	2	0.73	1.1
3508107	6.1	75.8	30.3	<2	0.60	1.0
3508108	7.9	87.1	22.7	<2	0.53	1.1
3508109	39.1	77.9	38.2	<2	0.47	1.3
3508110	0.8	0.4	<0.5	<2	0.07	<0.3
3508111	8.3	81.5	29.0	<2	0.59	0.8
3508112	7.7	78.5	32.5	<2	0.62	1.0
3508113	18.5	112	26.7	<2	0.60	1.1
3508114	8.0	71.0	24.9	<2	1.02	1.2
3508115	4.4	65.9	34.8	2	0.90	1.0
3508116	4.1	51.7	29.6	<2	0.84	0.8
3508117	4.4	41.2	34.2	<2	1.05	0.9
3508118	21.5	61.2	30.9	<2	0.95	1.0
3508119	52.3	75.3	24.9	<2	1.12	1.1
3508120	19.8	214	15.2	3	2.35	3.5
3508121	9.4	53.0	29.1	<2	0.83	1.2
3508122	5.2	59.8	27.2	<2	0.70	1.0
3508123	486	68.0	28.6	4	0.74	1.3
3508124	6.2	79.7	15.9	<2	0.62	1.6
3508125	7.3	60.2	29.3	<2	0.57	1.4
3508126	5.9	70.8	29.9	<2	0.65	1.0
3508127	5.0	65.1	24.5	<2	0.80	1.1
3508128	10.6	97.9	27.7	<2	1.41	1.4
3508129	6.5	117	11.0	<2	0.88	1.0
3508130	0.7	0.4	<0.5	<2	0.08	<0.3
3508131	3.5	102	11.1	<2	0.68	1.0
3508132	7.0	91.1	11.0	<2	0.68	1.0
3508133	214	125	19.2	6	2.70	1.7
3508134	37.7	83.0	25.7	2	2.78	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508135	32.5	82.1	25.2	2	2.77	1.2
3508136	125	70.9	27.0	3	1.25	1.3
3508137	53.8	64.9	27.1	2	1.67	1.1
3508138	8.2	72.3	25.1	<2	1.10	1.2
3508139	14.4	95.4	25.9	2	1.67	1.2
3508140	20.0	219	15.1	2	2.37	3.6
3508141	599	120	25.8	6	3.22	1.4
3508142	96.0	78.3	26.0	3	1.12	1.3
3508143	3.8	72.7	25.0	2	1.06	1.1
3508144	4.5	60.3	24.8	2	1.10	1.1
3508145	3.9	51.0	26.6	2	1.34	1.1
3508146	4.4	85.6	26.6	2	1.14	1.2
3508147	5.3	79.4	25.3	2	1.15	1.1
3508148	6.6	58.4	26.4	3	1.31	1.1
3508149	5.5	60.8	25.8	4	1.06	1.1
3508150	1.3	0.3	<0.5	<2	0.06	<0.3
3508151	6.8	45.8	27.9	3	1.25	1.1
3508152	7.2	66.7	24.9	3	1.28	0.9
*Dup 3508115	4.3	66.1	33.3	<2	0.83	0.9
*Std OREAS 601	313	99.3	5.3	13	31.46	4.1
*Std OREAS 520	6.9	115	18.7	2	3.17	4.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.4	117	18.6	2	3.30	4.9
*Std OREAS 601	314	100	5.5	12	33.37	4.4
*Rep 3508146	4.2	85.7	25.7	2	1.08	1.2
*Std OREAS 520	6.2	117	18.5	<2	3.47	5.1
*Rep 3508097	5.6	77.2	19.5	<2	0.87	1.1
*Std OREAS 601	315	102	5.5	13	33.50	4.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508077	0.20	0.53	0.09	1.6	0.22	0.86
3508078	0.19	0.53	0.10	1.6	0.36	0.93
3508079	0.15	0.47	0.40	1.3	0.40	0.96
3508080	1.49	0.82	0.48	17.5	0.91	4.50
3508081	0.22	0.56	0.42	0.9	0.43	0.72
3508082	0.41	0.65	0.13	2.0	0.50	1.10
3508083	0.42	0.66	0.20	2.2	0.41	1.26
3508084	0.43	0.69	0.10	2.2	0.40	1.21
3508085	0.35	0.56	0.18	2.0	0.37	1.19
3508086	0.33	0.55	0.08	2.1	0.35	1.11
3508087	0.43	0.67	0.11	1.4	0.58	0.98
3508088	0.39	0.73	0.13	1.1	0.54	0.92
3508089	0.41	0.77	0.06	1.1	0.26	0.67
3508090	<0.05	<0.05	<0.05	<0.2	<0.02	0.13
3508091	0.45	0.73	0.08	1.4	0.18	0.85
3508092	0.41	0.64	0.08	1.7	0.23	0.87
3508093	0.15	0.41	0.06	2.3	0.47	1.11
3508094	0.16	0.44	0.10	2.4	0.52	1.14
3508095	0.16	0.41	0.09	2.4	0.51	1.11
3508096	0.27	0.53	0.08	1.8	0.29	0.89
3508097	0.31	0.52	0.06	1.7	0.34	0.80
3508098	0.27	0.49	0.06	1.8	0.40	0.88
3508099	0.27	0.53	0.08	1.6	0.28	0.81
3508100	1.41	0.87	0.34	21.5	1.00	5.57
3508101	0.30	0.51	0.14	1.7	0.30	0.83
3508102	0.32	0.56	0.09	1.9	0.28	0.88
3508103	0.27	0.45	0.09	1.6	0.15	0.74
3508104	0.27	0.57	0.08	1.2	0.25	0.62
3508105	0.33	0.52	0.09	2.0	0.29	0.88

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508106	0.29	0.53	0.11	1.6	0.42	0.90
3508107	0.23	0.58	0.09	1.7	0.30	0.89
3508108	0.29	0.53	0.08	1.3	0.35	0.74
3508109	0.20	0.62	0.06	1.3	0.35	0.73
3508110	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508111	0.24	0.56	0.06	2.1	0.34	1.03
3508112	0.21	0.58	0.07	1.4	0.35	0.66
3508113	0.23	0.58	0.11	1.1	0.53	0.85
3508114	0.29	0.59	0.26	1.1	0.27	0.86
3508115	0.29	0.65	<0.05	0.8	0.28	0.59
3508116	0.34	0.55	<0.05	2.0	0.19	1.08
3508117	0.24	0.58	<0.05	2.0	0.15	1.01
3508118	0.23	0.58	<0.05	1.4	0.24	0.84
3508119	0.26	0.57	0.08	1.9	0.30	1.39
3508120	1.38	0.90	0.23	20.1	0.94	5.45
3508121	0.29	0.57	0.09	2.1	0.21	1.14
3508122	0.26	0.59	<0.05	1.4	0.26	0.85
3508123	0.26	0.53	0.51	1.1	0.39	0.79
3508124	0.46	0.55	<0.05	2.6	0.26	1.34
3508125	0.23	0.63	<0.05	1.5	0.23	0.96
3508126	0.24	0.60	0.06	1.5	0.25	0.85
3508127	0.31	0.58	<0.05	2.0	0.22	1.12
3508128	0.27	0.60	0.06	1.5	0.39	1.17
3508129	0.56	0.47	0.23	3.6	0.44	1.67
3508130	<0.05	<0.05	<0.05	<0.2	<0.02	0.15
3508131	0.63	0.52	0.08	4.3	0.37	2.02
3508132	0.60	0.50	<0.05	3.7	0.34	1.80
3508133	0.24	0.48	0.21	1.0	0.56	2.05
3508134	0.21	0.61	0.05	0.7	0.36	0.61

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508135	0.21	0.59	0.06	0.7	0.35	0.59
3508136	0.18	0.59	0.07	0.6	0.30	0.91
3508137	0.24	0.57	0.09	1.1	0.27	0.70
3508138	0.23	0.59	0.06	0.7	0.29	0.52
3508139	0.21	0.58	0.06	0.6	0.43	0.41
3508140	1.40	0.87	0.27	18.6	0.93	4.99
3508141	0.21	0.56	0.17	0.7	0.58	0.74
3508142	0.18	0.57	0.12	0.4	0.32	0.45
3508143	0.20	0.56	0.08	0.6	0.34	0.28
3508144	0.22	0.57	0.10	0.8	0.25	0.48
3508145	0.22	0.58	0.08	0.7	0.22	0.32
3508146	0.23	0.60	0.11	0.7	0.40	0.45
3508147	0.24	0.58	0.07	0.8	0.36	0.42
3508148	0.22	0.59	0.07	0.7	0.23	0.40
3508149	0.25	0.59	0.07	0.9	0.32	0.54
3508150	<0.05	<0.05	<0.05	<0.2	<0.02	0.09
3508151	0.27	0.64	0.09	1.0	0.19	0.48
3508152	0.34	0.59	<0.05	1.4	0.29	0.47
*Dup 3508115	0.27	0.62	<0.05	0.8	0.25	0.50
*Std OREAS 601	1.05	0.58	15.19	12.0	1.25	4.29
*Std OREAS 520	0.41	0.73	0.38	10.6	0.27	18.63
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.37	0.71	0.40	9.9	0.25	18.22
*Std OREAS 601	0.95	0.60	16.11	11.3	1.16	3.98
*Rep 3508146	0.22	0.60	0.13	0.7	0.40	0.44
*Std OREAS 520	0.41	0.69	0.40	9.8	0.26	17.20
*Rep 3508097	0.31	0.52	0.06	1.7	0.32	0.78
*Std OREAS 601	1.01	0.59	15.89	11.8	1.25	3.96
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508077	0.6	16.4	1.6
3508078	0.8	16.9	1.5
3508079	1.3	15.0	1.4
3508080	4.1	25.3	2.4
3508081	4.3	18.4	1.5
3508082	1.4	20.0	1.8
3508083	1.3	20.8	1.9
3508084	1.6	21.0	1.9
3508085	1.2	18.1	1.6
3508086	0.8	17.9	1.8
3508087	1.3	21.6	2.1
3508088	1.2	23.0	2.3
3508089	0.9	24.1	2.4
3508090	<0.1	2.4	0.1
3508091	1.2	23.8	2.3
3508092	1.3	20.5	2.0
3508093	0.7	12.6	1.2
3508094	0.9	13.2	1.3
3508095	0.9	13.1	1.2
3508096	0.7	17.2	1.7
3508097	0.8	17.1	1.7
3508098	0.7	16.3	1.6
3508099	1.0	17.9	1.7
3508100	5.4	27.4	2.6
3508101	0.9	16.9	1.6
3508102	0.8	17.8	1.7
3508103	0.7	15.4	1.5
3508104	0.7	17.7	1.7
3508105	0.7	17.3	1.7
3508106	0.7	17.1	1.6
3508107	0.6	18.4	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508108	0.7	16.9	1.6
3508109	0.7	18.7	1.8
3508110	0.2	2.3	0.1
3508111	0.7	17.8	1.7
3508112	0.8	18.0	1.7
3508113	1.1	17.9	1.6
3508114	1.3	18.5	1.6
3508115	1.0	21.2	1.9
3508116	0.7	18.2	1.7
3508117	0.6	17.8	1.6
3508118	0.6	18.2	1.6
3508119	0.8	17.7	1.6
3508120	3.8	27.4	2.5
3508121	1.1	18.6	1.7
3508122	0.9	19.8	1.8
3508123	1.6	16.8	1.6
3508124	1.1	19.2	1.8
3508125	0.9	19.9	1.9
3508126	0.8	19.8	1.8
3508127	0.8	19.0	1.8
3508128	1.4	19.9	1.8
3508129	1.6	16.8	1.6
3508130	<0.1	2.3	0.1
3508131	1.5	18.9	1.8
3508132	1.4	18.0	1.7
3508133	2.1	15.8	1.4
3508134	0.6	18.7	1.6
3508135	0.6	18.4	1.6
3508136	0.8	18.5	1.6
3508137	0.6	18.9	1.7
3508138	0.8	18.8	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05206

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508139	0.8	18.3	1.5
3508140	4.2	27.8	2.5
3508141	0.8	17.8	1.5
3508142	0.7	17.8	1.5
3508143	1.0	17.6	1.5
3508144	1.3	18.1	1.5
3508145	1.1	18.6	1.6
3508146	1.4	19.3	1.6
3508147	1.0	18.5	1.6
3508148	0.7	19.1	1.6
3508149	0.7	17.9	1.6
3508150	0.1	2.6	0.1
3508151	0.5	19.8	1.6
3508152	0.5	19.5	1.6
*Dup 3508115	0.8	20.0	1.8
*Std OREAS 601	5.9	12.3	0.7
*Std OREAS 520	45.1	23.1	2.4
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	45.8	22.6	2.2
*Std OREAS 601	5.9	12.2	0.7
*Rep 3508146	1.3	19.1	1.6
*Std OREAS 520	45.4	22.2	2.3
*Rep 3508097	0.8	16.8	1.7
*Std OREAS 601	5.8	12.2	0.7
*Blk BLANK	<0.1	<0.1	<0.1

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05207

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	19-Oct-2020
Submission Number (153-228)	*BBY* MAX20_Core_14/ 246 Cores	Date Analysed	22-Oct-2020 - 02-Nov-2020
		Date Completed	02-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05207

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508153	5.02	11	8.29	848	6.76	8
3508154	5.07	5	8.38	677	7.54	8
3508155	4.98	5	8.33	1061	6.47	6
3508156	5.81	8	8.28	984	6.90	19
3508157	3.47	14	7.63	654	3.63	19
3508158	3.53	<5	8.20	1355	2.56	12
3508159	4.00	35	8.38	856	6.28	6
3508160	0.13	292	8.71	1384	2.76	20
3508161	4.74	<5	8.36	890	6.11	5
3508162	4.41	184	7.66	920	6.77	11
3508163	3.21	303	8.02	1051	5.65	35
3508164	3.43	<5	8.36	635	6.96	6
3508165	5.01	<5	8.19	1260	6.13	5
3508166	4.92	<5	8.19	1163	5.83	5
3508167	4.73	<5	8.03	1109	5.11	5
3508168	5.71	<5	8.07	1248	5.21	4
3508169	4.01	13	8.49	794	6.50	4
3508170	1.16	<5	0.10	15	>15.00	1
3508171	4.70	11	8.95	1163	7.38	4
3508172	5.00	6	9.01	1101	7.60	4
3508173	5.22	12	8.14	871	7.56	19
3508174	3.93	10	8.44	703	8.44	5
3508175	-	10	8.47	720	8.69	7
3508176	4.14	<5	7.89	700	7.32	7
3508177	4.61	<5	7.07	930	6.09	80
3508178	5.90	<5	7.45	1169	5.99	57
3508179	4.08	<5	8.10	772	7.82	7
3508180	0.15	231	7.76	1011	2.57	78
3508181	4.07	<5	8.95	895	7.61	5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508182	3.64	<5	8.18	818	8.49	7
3508183	3.71	<5	8.02	1614	4.10	6
3508184	4.95	<5	8.86	1834	3.00	7
3508185	4.47	<5	8.63	1801	3.35	7
3508186	4.54	<5	8.36	1436	3.58	7
3508187	4.58	<5	8.98	1477	3.40	8
3508188	3.19	<5	9.00	1366	3.33	7
3508189	3.79	<5	8.50	721	6.58	5
3508190	1.25	<5	0.09	16	>15.00	<1
3508191	4.74	<5	8.81	898	6.20	4
3508192	5.02	18	7.60	701	6.35	9
3508193	5.26	<5	8.35	941	7.25	5
3508194	5.03	<5	8.19	949	7.41	9
3508195	4.71	<5	7.81	733	6.55	20
3508196	4.92	6	7.61	708	7.13	22
3508197	5.36	<5	7.86	647	7.31	14
3508198	5.20	<5	8.64	684	7.78	12
3508199	3.69	<5	7.51	861	7.72	14
3508200	0.15	223	7.81	1014	2.58	73
3508201	3.65	7	7.40	517	5.84	32
3508202	4.73	14	7.35	665	5.90	24
3508203	4.93	8	7.32	758	5.17	44
3508204	4.73	<5	7.61	813	6.21	39
3508205	4.96	<5	7.05	591	8.53	49
3508206	4.93	8	6.91	1031	7.09	47
3508207	3.65	32	6.60	612	8.59	52
3508208	3.71	<5	7.53	864	5.90	68
3508209	4.26	7	8.63	1752	3.16	9
3508210	1.15	<5	0.10	15	>15.00	1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508211	4.14	<5	8.62	1701	2.83	7
3508212	2.66	<5	7.59	1328	3.71	143
3508213	2.82	<5	8.17	1571	2.98	7
3508214	4.68	20	6.49	897	5.67	265
3508215	-	20	6.45	893	5.67	276
3508216	3.82	<5	6.82	614	6.66	301
3508217	3.60	<5	6.63	816	5.97	343
3508218	4.65	<5	6.67	779	8.23	234
3508219	4.73	<5	6.99	960	7.95	149
3508220	0.15	219	7.71	1010	2.57	74
3508221	5.02	6	7.72	869	7.48	47
3508222	5.06	8	8.00	993	7.26	19
3508223	5.21	<5	7.64	718	8.44	24
3508224	4.66	9	8.60	991	6.67	25
3508225	5.13	17	7.68	1096	6.17	27
3508226	4.49	<5	6.47	598	8.47	33
3508227	4.92	<5	7.55	535	8.33	46
3508228	3.26	6	7.96	546	8.58	26
*Dup 3508191	-	8	8.80	926	6.28	4
*Rep 3508225	-	15	-	-	-	-
*Blk BLANK	-	6	-	-	-	-
*Std SL76	-	5760	-	-	-	-
*Rep 3508156	-	-	8.41	1013	6.94	7
*Std OREAS 601	-	-	6.38	1211	1.29	34
*Std OREAS 520	-	-	5.76	990	3.92	35
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Rep 3508153	-	10	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std GS-9B	-	8730	-	-	-	-

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(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Rep 3508195	-	<5	-	-	-	-
*Blk BLANK	-	7	-	-	-	-
*Std OXG123	-	981	-	-	-	-
*Rep 3508214	-	18	-	-	-	-
*Std SL76	-	5770	-	-	-	-
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Rep 3508211	-	-	8.42	1685	2.80	8
*Std OREAS 601	-	-	6.47	2423	1.22	40
*Std OREAS 520	-	-	5.82	1144	3.85	34
*Std OREAS 520	-	-	5.93	1191	3.86	32
*Std OREAS 601	-	-	6.43	1784	1.23	33
*Blk BLANK	-	-	0.01	1	<0.01	1

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508153	1197	8.06	1.85	37	2.89	1780
3508154	408	8.60	1.57	35	3.13	1729
3508155	439	8.42	2.82	41	3.08	2033
3508156	458	8.35	2.35	39	2.98	2025
3508157	185	5.82	5.63	33	2.20	2075
3508158	81.7	4.24	6.34	17	1.53	1394
3508159	425	8.06	3.26	51	2.80	2467
3508160	2301	5.78	4.84	14	1.23	642
3508161	347	8.01	2.96	45	2.95	2398
3508162	374	8.22	3.43	37	3.04	2858
3508163	470	8.28	3.08	31	3.46	2412

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(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508164	552	8.55	2.10	46	3.40	2742
3508165	117	7.53	2.92	27	2.43	1703
3508166	150	7.71	3.31	28	2.45	1707
3508167	187	7.55	3.81	30	2.41	1799
3508168	155	7.33	3.52	30	2.34	1704
3508169	758	8.37	2.02	35	2.96	2584
3508170	5.2	0.21	0.02	1	1.97	161
3508171	518	8.17	1.69	32	2.98	1900
3508172	356	8.05	2.08	35	2.97	1834
3508173	638	9.21	1.89	34	3.45	2033
3508174	490	8.68	1.41	30	3.35	1787
3508175	514	8.61	1.42	32	3.35	1808
3508176	452	9.04	2.67	47	3.34	2701
3508177	147	6.97	5.17	45	3.65	1918
3508178	238	6.69	4.93	45	3.53	2404
3508179	310	8.78	2.68	48	3.16	2575
3508180	2717	4.41	3.45	36	1.49	539
3508181	354	8.46	1.91	34	3.21	1941
3508182	323	7.96	1.54	31	2.99	2091
3508183	72.3	3.84	5.56	9	1.38	1396
3508184	42.3	4.08	4.93	7	1.17	1000
3508185	59.9	4.04	4.81	7	1.16	1095
3508186	77.5	4.17	5.07	10	1.15	1512
3508187	45.3	4.16	4.92	13	1.21	1172
3508188	78.7	4.29	4.31	21	1.31	1253
3508189	564	7.66	3.38	49	2.55	2610
3508190	2.5	0.22	0.02	<1	2.72	176
3508191	415	7.14	2.58	34	2.63	1966
3508192	482	8.18	3.71	32	2.83	2489

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(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508193	611	9.59	1.89	33	3.45	2290
3508194	678	9.99	2.29	43	3.38	2231
3508195	377	8.45	2.28	42	3.54	2257
3508196	529	9.83	1.86	34	3.82	2381
3508197	556	9.96	1.40	26	3.68	2470
3508198	711	8.15	1.29	27	3.36	1980
3508199	796	10.15	1.92	32	3.96	2043
3508200	2773	4.31	3.42	36	1.51	540
3508201	997	7.97	2.29	31	3.79	2217
3508202	1168	8.02	2.41	26	3.22	2226
3508203	685	8.20	2.45	31	3.42	2049
3508204	534	7.16	2.33	30	3.18	2076
3508205	381	7.18	3.06	54	3.66	2984
3508206	547	8.99	2.81	45	4.00	2608
3508207	398	7.63	4.15	49	3.29	3146
3508208	277	7.26	3.46	44	3.49	3250
3508209	238	4.45	4.73	18	1.33	1500
3508210	1.6	0.18	0.03	<1	2.46	163
3508211	83.2	3.88	5.30	14	1.19	1540
3508212	125	5.35	4.65	23	3.58	1796
3508213	69.5	3.64	4.96	13	1.32	1178
3508214	212	6.37	3.96	41	5.82	2594
3508215	219	6.42	4.16	42	5.80	2596
3508216	261	6.99	3.61	50	6.55	2790
3508217	124	7.22	2.73	50	6.52	1438
3508218	257	8.21	1.84	53	5.79	2400
3508219	354	8.39	2.12	47	4.77	2624
3508220	2766	4.29	3.40	37	1.49	538
3508221	239	8.09	1.49	30	3.47	2110

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ANALYSIS REPORT BBM20-05207

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508222	413	8.93	1.63	32	3.49	2115
3508223	379	9.18	1.23	29	3.57	2340
3508224	569	7.61	1.43	22	2.62	1681
3508225	588	7.34	1.84	20	2.52	1665
3508226	794	8.80	1.96	29	3.99	2868
3508227	575	8.27	1.54	33	3.61	2402
3508228	604	8.50	1.44	30	3.27	2404
*Dup 3508191	432	7.20	2.60	35	2.65	1974
*Rep 3508156	466	8.35	2.39	40	3.00	2042
*Std OREAS 601	981	2.54	2.23	22	0.38	479
*Std OREAS 520	2910	>15.00	3.67	18	1.15	2363
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Rep 3508211	83.5	3.86	5.18	14	1.18	1514
*Std OREAS 601	998	2.45	2.13	22	0.38	476
*Std OREAS 520	2975	14.82	3.64	19	1.16	2341
*Std OREAS 520	3017	>15.00	3.63	19	1.18	2358
*Std OREAS 601	987	2.50	2.14	22	0.38	482
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508153	2.66	15	0.17	1.79	852	0.55
3508154	2.32	16	0.23	0.61	1013	0.58
3508155	2.30	15	0.23	0.84	769	0.57
3508156	2.22	20	0.23	0.78	836	0.56

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Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508157	2.07	12	0.12	2.45	232	0.35
3508158	2.61	8	0.10	1.57	239	0.30
3508159	2.41	14	0.22	1.39	583	0.55
3508160	3.08	14	0.12	0.32	509	0.31
3508161	2.62	13	0.22	1.08	619	0.55
3508162	2.30	15	0.19	2.55	455	0.54
3508163	2.27	24	0.21	1.18	557	0.59
3508164	2.58	15	0.24	1.38	717	0.59
3508165	2.67	12	0.22	0.39	873	0.55
3508166	2.68	12	0.22	0.25	773	0.55
3508167	2.87	12	0.22	0.42	649	0.54
3508168	2.96	12	0.22	0.40	660	0.53
3508169	2.36	15	0.18	1.53	789	0.56
3508170	0.05	<1	<0.01	0.02	77.8	<0.01
3508171	2.21	13	0.19	0.54	988	0.58
3508172	2.09	13	0.20	0.60	868	0.56
3508173	1.92	17	0.21	0.87	744	0.61
3508174	1.78	16	0.20	0.73	939	0.54
3508175	1.78	16	0.20	0.72	964	0.54
3508176	1.77	16	0.21	3.10	683	0.65
3508177	1.96	43	0.15	0.56	440	0.64
3508178	2.02	39	0.16	1.15	343	0.63
3508179	1.89	16	0.22	1.79	654	0.63
3508180	2.07	58	0.11	0.38	315	0.47
3508181	1.97	14	0.21	0.85	962	0.57
3508182	2.04	14	0.18	0.51	1169	0.55
3508183	2.87	5	0.11	1.33	156	0.27
3508184	3.32	6	0.12	0.73	440	0.32
3508185	3.25	6	0.11	1.17	465	0.32

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508186	3.08	6	0.11	1.60	375	0.30
3508187	3.09	6	0.12	1.64	395	0.30
3508188	3.48	6	0.12	1.74	418	0.29
3508189	2.16	14	0.19	3.12	641	0.56
3508190	0.04	<1	<0.01	0.02	75.4	<0.01
3508191	2.87	12	0.18	1.20	704	0.49
3508192	1.54	15	0.17	3.05	405	0.52
3508193	1.72	17	0.26	1.21	821	0.68
3508194	1.71	17	0.26	0.94	804	0.64
3508195	2.62	23	0.18	1.28	651	0.55
3508196	2.22	24	0.18	0.95	709	0.62
3508197	1.97	20	0.16	1.08	872	0.67
3508198	2.20	19	0.19	1.24	1091	0.54
3508199	1.35	25	0.21	1.31	686	0.61
3508200	2.08	59	0.10	0.37	317	0.46
3508201	3.19	26	0.20	1.67	396	0.52
3508202	2.81	24	0.23	3.28	684	0.41
3508203	2.73	25	0.25	2.95	550	0.51
3508204	2.95	28	0.20	2.14	709	0.48
3508205	1.90	35	0.16	2.72	497	0.49
3508206	2.06	33	0.21	1.36	505	0.66
3508207	1.59	34	0.16	3.30	396	0.49
3508208	2.43	35	0.15	1.27	523	0.50
3508209	3.46	8	0.12	0.83	506	0.33
3508210	0.05	<1	<0.01	0.02	74.4	<0.01
3508211	3.46	6	0.11	1.20	470	0.30
3508212	2.57	82	0.16	0.71	264	0.30
3508213	3.27	6	0.10	0.81	361	0.29
3508214	1.73	129	0.18	0.33	253	0.30

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508215	1.70	132	0.18	0.32	251	0.30
3508216	1.71	154	0.20	0.73	319	0.34
3508217	2.15	153	0.20	0.08	394	0.32
3508218	1.30	82	0.16	0.62	705	0.51
3508219	1.54	52	0.17	1.22	679	0.57
3508220	2.08	59	0.10	0.37	318	0.46
3508221	2.54	26	0.21	0.54	855	0.55
3508222	2.24	22	0.20	0.45	836	0.63
3508223	1.81	22	0.20	1.49	995	0.63
3508224	2.89	21	0.18	1.14	1016	0.56
3508225	2.91	23	0.17	1.02	849	0.65
3508226	1.85	33	0.11	1.35	467	0.60
3508227	2.37	31	0.14	1.12	731	0.60
3508228	2.12	25	0.15	1.19	844	0.78
*Dup 3508191	2.83	13	0.19	1.24	705	0.49
*Rep 3508156	2.24	14	0.22	0.78	840	0.56
*Std OREAS 601	1.47	25	0.05	1.13	228	0.17
*Std OREAS 520	1.39	78	0.07	1.01	102	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Rep 3508211	3.42	6	0.11	1.21	464	0.30
*Std OREAS 601	1.41	29	0.05	1.11	219	0.17
*Std OREAS 520	1.39	78	0.07	0.98	101	0.38
*Std OREAS 520	1.38	74	0.07	0.98	101	0.38
*Std OREAS 601	1.42	28	0.05	1.10	218	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508153	386	120	11.4	0.94	4	1.3
3508154	424	120	15.1	0.42	6	1.0
3508155	429	271	12.2	0.51	5	1.8
3508156	419	136	13.7	0.72	4	1.9
3508157	250	156	47.5	0.50	18	2.1
3508158	166	63	71.0	0.03	6	1.9
3508159	397	126	12.4	0.76	9	1.5
3508160	237	50	40.1	0.67	19	1.3
3508161	389	153	13.3	0.55	6	1.5
3508162	389	162	13.3	0.47	5	1.5
3508163	373	166	21.7	1.01	4	1.4
3508164	417	181	11.4	0.81	5	1.3
3508165	307	102	39.5	0.21	5	1.4
3508166	307	106	44.1	0.24	4	1.3
3508167	301	161	47.5	0.33	3	1.8
3508168	301	128	40.1	0.18	3	1.3
3508169	467	1486	13.8	2.80	4	3.8
3508170	4	12	1.5	0.07	<1	<0.1
3508171	413	355	13.7	1.04	4	0.9
3508172	392	160	12.8	0.49	4	0.8
3508173	447	202	14.8	0.93	4	0.9
3508174	406	135	18.1	0.66	4	0.7
3508175	417	139	18.4	0.73	3	0.7
3508176	462	245	15.6	0.75	6	1.4
3508177	360	280	50.4	0.32	2	2.3
3508178	361	566	46.1	0.51	3	2.1
3508179	441	142	17.3	0.68	7	1.1
3508180	131	75	74.8	0.33	24	3.3
3508181	455	137	16.5	0.53	4	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508182	423	146	14.5	0.54	3	0.8
3508183	134	88	54.7	0.15	7	1.7
3508184	151	39	39.5	0.17	3	1.4
3508185	149	42	32.6	0.29	5	1.5
3508186	161	71	41.3	0.05	3	2.1
3508187	147	62	51.2	0.07	7	1.6
3508188	150	122	73.1	0.12	10	1.4
3508189	378	238	23.7	0.93	8	2.7
3508190	3	4	1.2	0.03	<1	<0.1
3508191	358	134	19.4	0.75	5	1.2
3508192	387	179	14.3	1.17	14	1.3
3508193	426	190	16.3	1.47	6	0.6
3508194	467	234	16.9	1.32	7	1.0
3508195	391	142	28.8	0.69	8	0.8
3508196	400	190	21.0	0.92	3	0.8
3508197	486	179	16.0	0.84	6	0.7
3508198	403	158	17.4	1.18	5	0.7
3508199	517	184	21.0	1.30	3	0.6
3508200	126	78	70.2	0.40	23	3.2
3508201	459	261	14.8	1.91	3	2.0
3508202	385	347	14.8	1.75	11	1.8
3508203	435	195	15.3	1.01	15	0.9
3508204	372	124	14.8	0.96	5	1.2
3508205	350	129	16.6	0.58	13	2.3
3508206	410	154	19.1	0.87	5	1.9
3508207	381	286	14.4	0.63	6	2.6
3508208	377	350	18.5	0.36	3	3.3
3508209	180	185	21.1	0.40	3	1.6
3508210	2	4	1.8	0.03	<1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508211	161	330	37.2	0.23	5	1.8
3508212	198	155	32.7	0.21	3	1.6
3508213	162	72	22.5	0.18	3	1.6
3508214	246	152	29.6	0.50	2	2.1
3508215	241	148	29.8	0.53	2	2.1
3508216	255	88	31.8	0.19	2	1.3
3508217	254	75	35.3	0.24	2	1.2
3508218	365	202	15.8	0.51	4	1.0
3508219	389	250	16.8	1.01	4	1.5
3508220	125	76	70.0	0.48	23	3.2
3508221	364	134	20.3	0.48	3	0.8
3508222	410	160	17.4	0.81	4	0.9
3508223	435	146	15.2	0.81	5	0.7
3508224	306	129	19.2	0.91	4	0.9
3508225	325	144	18.1	1.12	3	0.9
3508226	419	149	26.3	1.34	3	1.1
3508227	368	135	18.7	1.23	5	0.8
3508228	367	141	24.8	1.12	6	0.8
*Dup 3508191	359	141	23.3	0.72	5	1.2
*Rep 3508156	418	131	13.3	0.57	4	1.9
*Std OREAS 601	29	1258	154	50.97	303	2.3
*Std OREAS 520	274	22	127	0.39	166	1.2
*Blk BLANK	<2	<1	<0.5	-	-	-
*Blk BLANK	<2	1	<0.5	<0.02	<1	<0.1
*Rep 3508211	162	336	23.8	0.23	3	1.8
*Std OREAS 601	29	1265	155	52.03	297	2.1
*Std OREAS 520	272	22	130	0.45	157	1.2
*Std OREAS 520	259	23	122	0.38	142	1.1
*Std OREAS 601	29	1277	151	50.57	287	2.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<2	2	<0.5	0.04	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508153	0.06	0.66	17.84	43.8	2	22.1
3508154	<0.04	0.31	18.84	39.3	1	22.4
3508155	0.72	3.21	19.11	39.4	2	22.7
3508156	0.24	0.61	19.29	38.3	2	22.9
3508157	1.17	1.35	20.29	20.5	2	19.7
3508158	0.11	0.08	24.08	11.8	1	19.1
3508159	0.46	0.35	19.06	37.5	3	21.7
3508160	0.15	0.25	23.12	15.8	2	20.3
3508161	0.25	0.46	18.81	34.9	3	20.7
3508162	0.21	0.52	18.22	37.7	4	20.5
3508163	0.71	0.92	19.17	37.8	3	20.7
3508164	0.45	0.90	19.66	38.5	3	20.9
3508165	0.24	0.16	24.91	34.4	<1	19.5
3508166	0.25	0.41	24.72	33.9	1	18.5
3508167	0.38	1.48	23.92	33.0	3	18.2
3508168	0.09	0.18	23.48	31.9	2	18.0
3508169	3.46	24.42	16.21	40.8	2	22.6
3508170	<0.04	0.16	1.05	1.7	<1	0.3
3508171	0.45	6.74	17.11	36.0	<1	20.0
3508172	<0.04	0.86	17.78	38.2	1	20.5
3508173	0.36	1.52	18.20	42.4	1	19.8
3508174	0.04	0.40	17.68	43.3	<1	20.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508175	0.04	0.42	17.22	44.9	4	21.4
3508176	0.42	1.92	17.86	41.4	3	20.9
3508177	0.63	3.97	20.74	33.9	5	17.8
3508178	0.80	11.59	21.25	33.1	5	18.8
3508179	0.13	0.28	17.72	40.0	3	20.9
3508180	0.92	0.30	70.53	15.6	11	18.0
3508181	0.08	0.26	17.21	40.9	1	20.1
3508182	0.05	0.37	15.94	38.2	<1	20.0
3508183	0.10	0.19	20.44	11.8	<1	16.3
3508184	0.05	0.03	25.99	11.7	<1	18.4
3508185	0.07	0.03	25.37	11.9	<1	19.1
3508186	0.11	0.15	24.74	12.4	<1	19.5
3508187	0.09	0.10	25.05	13.5	<1	19.3
3508188	0.11	1.01	23.46	19.6	<1	20.3
3508189	0.70	1.71	16.69	37.9	2	22.2
3508190	<0.04	0.02	0.96	1.9	<1	0.1
3508191	0.13	0.32	17.48	34.5	2	19.7
3508192	0.37	0.87	15.23	39.5	2	19.8
3508193	0.37	0.53	17.71	45.0	1	22.6
3508194	0.24	1.63	18.01	47.3	2	22.0
3508195	0.17	0.27	17.17	40.2	4	20.5
3508196	0.09	0.56	15.39	46.0	2	22.0
3508197	0.11	0.51	14.90	45.5	1	21.7
3508198	0.27	0.59	16.61	45.0	<1	22.0
3508199	0.06	0.73	15.50	55.4	1	21.2
3508200	0.66	0.32	65.04	16.2	12	19.2
3508201	0.63	1.59	21.52	41.9	4	20.6
3508202	0.53	3.18	26.38	45.0	2	21.7
3508203	0.41	1.12	25.93	38.4	2	21.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508204	0.81	0.42	21.65	34.9	2	21.1
3508205	0.14	0.36	15.80	38.2	3	19.6
3508206	0.09	0.44	20.10	43.5	3	20.7
3508207	0.37	5.99	16.14	35.8	4	18.8
3508208	0.25	3.83	16.07	34.7	3	20.7
3508209	0.53	2.90	24.17	14.5	1	21.3
3508210	<0.04	0.04	1.02	1.9	<1	0.3
3508211	0.42	4.52	23.37	11.4	<1	19.3
3508212	0.18	0.96	21.52	29.5	4	17.3
3508213	0.25	0.24	24.14	11.4	1	17.7
3508214	0.77	1.05	18.78	45.2	8	14.8
3508215	0.88	1.01	18.33	44.2	8	14.6
3508216	0.21	0.35	19.75	49.4	8	14.9
3508217	<0.04	0.11	19.49	49.5	5	14.0
3508218	0.41	0.52	12.73	45.5	2	15.9
3508219	1.83	2.79	15.45	45.9	2	18.8
3508220	0.69	0.34	67.91	16.0	12	18.6
3508221	0.05	0.29	21.67	37.1	<1	19.5
3508222	0.17	0.49	19.01	41.7	1	20.3
3508223	0.25	0.50	16.13	44.8	<1	19.8
3508224	0.07	0.55	19.63	40.5	<1	19.9
3508225	0.18	0.99	20.76	33.8	<1	18.2
3508226	0.10	0.87	16.13	36.9	2	17.1
3508227	0.04	0.42	15.86	38.6	1	18.2
3508228	0.06	0.40	17.20	38.8	1	18.7
*Dup 3508191	0.15	0.37	17.40	34.6	2	19.9
*Rep 3508156	0.25	0.55	19.32	36.7	2	21.8
*Std OREAS 601	19.99	7.67	60.89	5.6	7	20.6
*Std OREAS 520	2.84	0.11	83.84	193	<1	19.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Rep 3508211	0.42	4.65	23.66	11.0	<1	19.0
*Std OREAS 601	19.90	7.91	59.61	5.7	7	20.2
*Std OREAS 520	2.98	0.13	78.26	198	<1	18.8
*Std OREAS 520	2.86	0.12	81.88	190	<1	18.1
*Std OREAS 601	18.88	7.61	60.22	5.5	6	20.2
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.2

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508153	0.68	0.09	8.6	0.26	3.28	4.9
3508154	0.78	0.08	8.8	0.27	1.74	4.4
3508155	0.66	0.11	9.1	0.26	1.91	4.2
3508156	0.74	0.07	9.1	0.26	1.72	5.3
3508157	1.53	0.06	10.4	0.24	8.41	6.9
3508158	2.00	0.04	12.6	0.25	7.97	10.1
3508159	0.68	0.07	9.1	0.25	8.90	4.2
3508160	1.37	0.11	11.5	0.36	11.16	3.4
3508161	0.71	0.07	8.9	0.25	1.64	4.2
3508162	0.66	0.07	8.6	0.24	7.06	3.7
3508163	0.87	0.09	9.0	0.25	2.26	4.6
3508164	0.63	0.09	9.4	0.26	1.57	3.4
3508165	1.24	0.06	11.5	0.27	5.27	6.1
3508166	1.37	0.06	11.7	0.28	3.65	6.0
3508167	1.37	0.06	11.3	0.27	1.94	6.3
3508168	1.22	0.05	11.1	0.26	3.04	5.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508169	0.71	0.08	7.6	0.21	0.91	3.5
3508170	0.04	<0.02	1.2	0.02	<0.05	0.2
3508171	0.60	0.07	8.2	0.22	1.54	2.9
3508172	0.63	0.06	8.5	0.22	1.66	3.6
3508173	0.78	0.07	8.3	0.26	1.72	3.0
3508174	0.91	0.07	8.3	0.27	2.91	3.2
3508175	0.88	0.07	7.9	0.26	2.98	3.3
3508176	0.72	0.07	8.2	0.25	2.11	3.3
3508177	1.49	0.07	9.5	0.25	0.55	6.6
3508178	1.33	0.06	9.6	0.24	1.10	7.0
3508179	0.76	0.07	8.2	0.25	3.45	2.9
3508180	2.41	0.08	35.6	0.38	101	19.6
3508181	0.75	0.06	8.0	0.24	2.99	2.9
3508182	0.66	0.06	7.4	0.21	2.86	2.6
3508183	1.34	0.05	10.7	0.20	11.39	7.3
3508184	1.18	0.04	13.8	0.22	8.25	9.4
3508185	1.08	0.04	13.4	0.21	8.93	9.5
3508186	1.28	0.05	13.0	0.21	7.68	9.3
3508187	1.31	0.04	13.3	0.22	11.60	9.2
3508188	1.63	0.05	11.9	0.22	9.08	8.8
3508189	0.80	0.07	7.6	0.22	3.53	3.7
3508190	0.03	<0.02	1.2	0.02	0.07	0.1
3508191	0.78	0.06	8.1	0.23	5.13	3.2
3508192	0.60	0.07	7.1	0.21	3.26	3.1
3508193	0.82	0.07	8.1	0.24	3.60	3.8
3508194	0.83	0.08	8.2	0.23	5.68	3.5
3508195	0.98	0.07	8.1	0.22	12.07	3.9
3508196	0.93	0.09	6.8	0.24	6.52	3.4
3508197	0.84	0.08	6.7	0.25	5.13	2.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508198	0.85	0.08	7.9	0.23	5.92	3.9
3508199	1.00	0.09	7.0	0.24	7.44	3.2
3508200	2.34	0.08	34.5	0.36	104	20.1
3508201	0.74	0.09	10.3	0.25	3.44	2.3
3508202	0.79	0.14	12.4	0.26	3.22	1.8
3508203	0.72	0.10	12.8	0.27	4.98	2.5
3508204	0.70	0.07	10.8	0.24	5.97	3.1
3508205	0.77	0.06	7.6	0.24	5.82	2.3
3508206	0.92	0.09	9.5	0.29	2.25	4.4
3508207	0.59	0.06	8.1	0.22	3.12	2.5
3508208	0.81	0.07	7.8	0.24	2.48	3.2
3508209	0.78	0.06	13.1	0.26	4.51	10.2
3508210	0.05	<0.02	1.2	0.02	0.06	0.2
3508211	1.00	0.05	12.9	0.26	7.10	11.7
3508212	1.07	0.04	11.9	0.20	6.65	7.3
3508213	0.98	0.05	13.6	0.23	9.55	11.3
3508214	0.94	0.05	9.9	0.18	0.91	3.8
3508215	0.94	0.05	9.7	0.18	0.74	3.7
3508216	0.93	0.04	10.4	0.18	0.82	3.1
3508217	1.06	0.04	10.5	0.18	0.84	3.1
3508218	0.69	0.08	6.1	0.21	1.87	1.7
3508219	0.74	0.10	7.5	0.24	4.26	2.8
3508220	2.48	0.08	37.2	0.38	106	20.1
3508221	0.90	0.08	11.2	0.29	5.67	5.9
3508222	0.80	0.09	9.6	0.27	5.00	4.4
3508223	0.74	0.09	8.0	0.27	4.54	2.0
3508224	0.89	0.07	9.9	0.32	3.17	2.8
3508225	0.88	0.07	9.2	0.35	3.06	3.3
3508226	1.09	0.09	7.0	0.30	7.46	2.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508227	0.82	0.07	7.2	0.29	7.32	2.8
3508228	1.10	0.08	7.3	0.37	3.61	2.1
*Dup 3508191	0.84	0.07	8.2	0.22	5.32	3.2
*Rep 3508156	0.75	0.07	9.2	0.27	1.41	5.2
*Std OREAS 601	4.26	1.82	32.9	0.10	3.91	13.8
*Std OREAS 520	3.67	0.13	83.6	0.37	66.78	5.3
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508211	0.98	0.05	12.9	0.25	6.96	11.8
*Std OREAS 601	4.41	1.89	32.8	0.11	4.20	13.7
*Std OREAS 520	3.80	0.13	83.7	0.37	68.75	5.4
*Std OREAS 520	3.53	0.11	81.9	0.36	61.78	4.9
*Std OREAS 601	4.17	1.55	30.7	0.10	3.76	13.4
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508153	9.3	52.7	26.4	6	1.20	1.0
3508154	6.5	43.2	30.8	2	1.41	1.0
3508155	47.3	85.5	29.3	3	1.11	1.1
3508156	22.5	73.9	30.5	3	1.12	1.0
3508157	91.1	132	19.9	2	1.13	0.9
3508158	9.5	120	12.6	<2	0.75	0.7
3508159	45.9	108	27.6	3	1.56	1.0
3508160	7.5	110	12.4	4	0.86	2.2
3508161	32.7	104	27.8	2	1.28	0.8
3508162	24.2	113	28.2	3	1.37	0.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508163	52.4	95.1	31.1	3	1.16	1.1
3508164	33.9	74.9	30.2	2	1.70	1.4
3508165	16.1	55.7	26.8	<2	1.29	0.9
3508166	22.3	68.0	26.4	<2	1.00	1.0
3508167	51.1	95.5	26.0	<2	0.89	0.9
3508168	10.2	91.3	25.4	<2	0.87	0.8
3508169	183	66.4	28.7	4	1.11	1.0
3508170	2.0	0.6	<0.5	<2	0.06	<0.3
3508171	46.2	48.2	24.7	3	1.31	0.9
3508172	5.9	62.8	26.2	<2	1.06	0.8
3508173	44.4	57.1	30.8	3	0.78	1.0
3508174	6.7	39.5	30.5	2	0.78	0.8
3508175	6.6	40.2	31.5	3	0.80	0.8
3508176	49.1	95.2	31.7	5	1.18	1.1
3508177	74.1	160	35.6	<2	0.64	1.0
3508178	116	155	32.3	<2	0.54	1.1
3508179	15.7	93.3	31.8	3	1.16	0.9
3508180	22.9	207	14.3	3	2.25	3.3
3508181	6.8	63.1	30.7	2	1.81	0.7
3508182	7.2	50.6	27.9	<2	1.98	0.7
3508183	8.3	97.5	10.3	<2	0.54	0.9
3508184	4.1	104	11.4	<2	0.92	0.8
3508185	3.7	104	11.6	<2	0.86	0.9
3508186	4.8	107	11.0	<2	0.69	0.8
3508187	5.7	107	11.8	<2	0.82	0.9
3508188	8.2	82.3	11.8	<2	0.88	1.0
3508189	60.6	106	30.5	3	1.03	1.1
3508190	0.9	0.7	<0.5	<2	<0.05	<0.3
3508191	20.3	92.8	23.9	2	1.57	1.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508192	44.3	96.0	29.0	3	1.73	0.9
3508193	26.8	55.2	31.5	3	2.01	1.0
3508194	19.0	69.4	31.4	3	1.82	1.0
3508195	13.4	84.6	33.9	3	1.15	0.9
3508196	11.4	58.9	37.1	3	1.22	1.0
3508197	13.6	39.4	36.9	4	2.03	1.0
3508198	22.1	36.9	31.6	4	2.03	0.8
3508199	7.0	58.3	39.1	5	1.75	1.0
3508200	22.0	203	14.7	2	2.33	3.5
3508201	45.7	92.0	38.9	4	1.14	0.8
3508202	40.9	73.4	34.5	7	1.60	0.7
3508203	33.5	73.1	34.2	6	1.46	0.9
3508204	57.6	68.0	33.3	4	1.09	0.8
3508205	28.3	88.1	36.4	3	1.09	0.8
3508206	17.6	81.8	39.8	3	1.12	1.1
3508207	55.4	128	34.3	3	0.75	0.8
3508208	25.7	104	35.2	<2	0.73	0.8
3508209	42.1	93.0	12.4	<2	0.57	0.9
3508210	0.9	1.0	<0.5	<2	<0.05	<0.3
3508211	36.1	91.4	9.8	<2	0.66	0.9
3508212	20.7	122	19.3	<2	0.54	0.8
3508213	32.8	90.4	9.2	<2	0.54	1.0
3508214	61.0	164	28.6	<2	0.60	0.7
3508215	72.3	170	27.8	<2	0.60	0.7
3508216	19.5	154	33.7	<2	0.33	0.7
3508217	5.0	99.8	32.3	<2	0.43	0.6
3508218	20.2	54.7	37.5	2	2.08	0.8
3508219	102	64.3	37.2	3	2.31	0.9
3508220	22.0	212	14.1	2	2.38	3.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508221	5.5	40.0	32.2	<2	1.78	1.0
3508222	9.6	46.2	33.6	<2	1.68	1.0
3508223	15.7	36.0	35.9	<2	2.19	1.0
3508224	8.0	34.7	31.6	3	1.36	0.9
3508225	19.7	32.7	27.6	3	1.43	0.8
3508226	13.7	49.0	43.2	<2	2.29	1.0
3508227	5.4	40.8	36.8	<2	1.86	0.8
3508228	7.8	37.1	38.9	<2	2.87	0.9
*Dup 3508191	22.3	93.1	24.1	2	1.63	1.0
*Rep 3508156	21.9	72.9	30.1	3	1.08	0.9
*Std OREAS 601	313	99.3	5.3	13	31.46	4.1
*Std OREAS 520	6.9	115	18.7	2	3.17	4.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508211	37.6	90.7	9.6	<2	0.64	0.9
*Std OREAS 601	301	98.2	5.0	12	31.47	4.4
*Std OREAS 520	6.7	117	18.1	<2	3.28	4.8
*Std OREAS 520	6.5	100	15.5	<2	2.85	4.2
*Std OREAS 601	301	86.8	4.5	10	29.49	3.9
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508153	0.23	0.59	0.08	0.6	0.24	0.51
3508154	0.20	0.63	0.07	0.5	0.19	0.40
3508155	0.18	0.61	0.09	0.5	0.38	0.67
3508156	0.20	0.62	0.07	0.7	0.32	0.59

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508157	0.40	0.48	0.09	2.3	0.58	1.58
3508158	0.62	0.49	0.06	3.5	0.48	2.05
3508159	0.22	0.59	0.06	0.8	0.49	0.53
3508160	0.19	0.59	0.09	2.0	0.24	1.39
3508161	0.21	0.59	0.07	0.6	0.48	0.49
3508162	0.19	0.58	0.10	0.6	0.59	0.56
3508163	0.25	0.63	0.09	0.8	0.45	0.62
3508164	0.16	0.64	<0.05	0.4	0.34	0.36
3508165	0.37	0.71	<0.05	2.1	0.23	1.10
3508166	0.36	0.70	<0.05	2.1	0.29	1.13
3508167	0.36	0.68	0.05	2.0	0.44	1.20
3508168	0.34	0.66	<0.05	1.8	0.44	0.99
3508169	0.15	0.56	0.32	0.4	0.31	1.22
3508170	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508171	0.14	0.58	0.10	0.3	0.22	0.30
3508172	0.17	0.57	0.07	0.4	0.29	0.25
3508173	0.14	0.65	0.10	0.3	0.27	0.28
3508174	0.17	0.67	0.07	0.4	0.17	0.22
3508175	0.18	0.64	0.10	0.4	0.17	0.22
3508176	0.17	0.66	0.20	0.4	0.50	0.38
3508177	0.40	0.66	0.06	1.2	0.85	1.02
3508178	0.41	0.66	0.07	1.3	0.89	1.19
3508179	0.15	0.65	0.16	0.4	0.48	0.32
3508180	1.48	0.90	0.26	20.7	0.98	5.79
3508181	0.17	0.61	0.11	0.5	0.29	0.26
3508182	0.14	0.57	0.08	0.4	0.23	0.25
3508183	0.47	0.46	0.08	2.7	0.44	1.45
3508184	0.58	0.53	0.07	3.4	0.45	1.69
3508185	0.60	0.54	0.10	3.4	0.45	1.67

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508186	0.58	0.51	0.12	3.3	0.44	1.81
3508187	0.57	0.52	0.11	3.5	0.42	1.71
3508188	0.56	0.53	0.10	3.2	0.35	1.75
3508189	0.19	0.59	0.11	0.6	0.50	1.07
3508190	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508191	0.19	0.57	0.05	0.7	0.46	0.52
3508192	0.16	0.56	0.12	0.5	0.45	0.58
3508193	0.18	0.65	0.10	0.4	0.25	0.23
3508194	0.17	0.64	0.08	0.4	0.33	0.33
3508195	0.20	0.57	0.06	0.9	0.49	0.46
3508196	0.17	0.61	0.07	0.7	0.27	0.41
3508197	0.12	0.64	0.12	0.2	0.19	0.21
3508198	0.19	0.60	0.13	0.6	0.17	0.27
3508199	0.15	0.64	0.15	0.5	0.31	0.26
3508200	1.38	0.89	0.29	19.6	0.96	5.42
3508201	0.11	0.66	0.12	0.5	0.55	0.66
3508202	0.08	0.69	0.21	0.5	0.40	0.58
3508203	0.13	0.67	0.25	0.7	0.40	0.40
3508204	0.16	0.60	0.09	0.8	0.35	0.53
3508205	0.10	0.58	0.09	0.3	0.44	0.58
3508206	0.20	0.70	0.07	0.7	0.40	0.68
3508207	0.11	0.54	0.12	0.3	0.63	0.79
3508208	0.16	0.54	<0.05	0.5	0.47	0.71
3508209	0.55	0.57	0.07	3.0	0.37	1.41
3508210	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508211	0.67	0.52	0.06	4.0	0.35	1.79
3508212	0.42	0.46	<0.05	3.1	0.59	1.68
3508213	0.64	0.51	0.07	3.7	0.40	1.85
3508214	0.20	0.42	0.20	2.3	0.84	1.41

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508215	0.19	0.41	0.19	2.4	0.85	1.41
3508216	0.17	0.45	<0.05	2.3	0.75	1.27
3508217	0.16	0.43	<0.05	2.3	0.48	1.18
3508218	0.08	0.50	0.08	0.3	0.24	0.28
3508219	0.14	0.60	0.11	0.5	0.31	0.55
3508220	1.42	0.90	0.33	19.7	1.00	5.16
3508221	0.33	0.67	0.11	1.4	0.16	0.78
3508222	0.22	0.66	0.11	0.9	0.21	0.58
3508223	0.10	0.68	0.13	0.3	0.15	0.26
3508224	0.15	0.73	0.10	0.6	0.14	0.29
3508225	0.22	0.72	0.09	0.5	0.16	0.31
3508226	0.14	0.60	0.09	0.4	0.25	0.36
3508227	0.15	0.59	0.10	0.4	0.21	0.23
3508228	0.14	0.75	0.10	<0.2	0.22	0.16
*Dup 3508191	0.19	0.58	0.06	0.7	0.46	0.53
*Rep 3508156	0.20	0.64	0.06	0.7	0.32	0.58
*Std OREAS 601	1.05	0.58	15.19	12.0	1.25	4.29
*Std OREAS 520	0.41	0.73	0.38	10.6	0.27	18.63
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508211	0.67	0.52	0.06	3.9	0.35	1.78
*Std OREAS 601	0.96	0.59	15.15	11.4	1.21	3.95
*Std OREAS 520	0.38	0.71	0.46	10.1	0.27	18.43
*Std OREAS 520	0.34	0.64	0.45	9.7	0.26	17.82
*Std OREAS 601	0.90	0.51	14.70	10.7	1.14	3.87
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508153	0.5	18.8	1.6
3508154	0.5	20.0	1.7
3508155	0.7	19.8	1.6
3508156	0.6	19.9	1.7
3508157	1.3	16.3	1.5
3508158	0.9	16.6	1.6
3508159	3.9	19.3	1.6
3508160	0.9	22.8	2.3
3508161	0.9	19.2	1.6
3508162	3.0	18.2	1.5
3508163	2.8	20.5	1.7
3508164	1.1	20.6	1.7
3508165	1.1	22.0	1.9
3508166	0.8	21.8	1.9
3508167	0.8	21.2	1.8
3508168	0.9	20.5	1.8
3508169	0.7	17.8	1.4
3508170	<0.1	2.6	0.1
3508171	0.8	17.1	1.4
3508172	0.5	17.7	1.4
3508173	0.6	20.3	1.7
3508174	0.5	20.0	1.8
3508175	0.5	20.4	1.8
3508176	0.9	20.1	1.7
3508177	0.5	20.7	1.7
3508178	0.7	21.2	1.7
3508179	1.0	20.1	1.7
3508180	4.5	26.4	2.5
3508181	1.2	19.2	1.6
3508182	1.5	17.8	1.5
3508183	3.1	15.2	1.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Member of the SGS Group (SGS SA)

Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508184	1.7	17.5	1.5
3508185	1.6	18.1	1.5
3508186	1.4	17.3	1.5
3508187	1.5	18.3	1.5
3508188	1.3	17.7	1.6
3508189	1.1	18.8	1.6
3508190	<0.1	2.4	0.1
3508191	1.4	17.9	1.6
3508192	3.2	17.5	1.5
3508193	0.9	18.6	1.6
3508194	0.8	19.2	1.6
3508195	0.8	17.8	1.5
3508196	0.6	19.6	1.6
3508197	0.9	19.5	1.7
3508198	0.8	18.4	1.6
3508199	0.7	19.9	1.7
3508200	4.2	25.8	2.5
3508201	0.8	19.6	1.8
3508202	0.8	20.3	1.8
3508203	0.8	20.5	1.8
3508204	0.8	18.6	1.7
3508205	0.9	19.2	1.7
3508206	0.8	22.2	2.0
3508207	1.3	17.3	1.5
3508208	1.0	17.7	1.7
3508209	1.1	18.8	1.8
3508210	<0.1	2.4	0.1
3508211	1.1	17.6	1.7
3508212	0.6	14.1	1.4
3508213	1.3	16.0	1.6
3508214	0.5	12.3	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05207

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508215	0.5	12.3	1.2
3508216	0.3	12.8	1.3
3508217	0.3	12.7	1.2
3508218	0.6	15.6	1.4
3508219	0.8	18.3	1.7
3508220	4.1	26.0	2.6
3508221	0.8	20.5	1.9
3508222	0.8	19.5	1.8
3508223	0.8	19.9	1.8
3508224	0.6	22.0	2.2
3508225	0.6	22.5	2.3
3508226	0.9	19.6	2.0
3508227	0.9	18.7	1.8
3508228	1.1	24.4	2.4
*Dup 3508191	1.4	17.9	1.6
*Rep 3508156	0.5	19.9	1.7
*Std OREAS 601	5.9	12.3	0.7
*Std OREAS 520	45.1	23.1	2.4
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508211	1.1	17.4	1.7
*Std OREAS 601	5.7	11.5	0.7
*Std OREAS 520	45.6	21.4	2.4
*Std OREAS 520	42.9	19.2	2.1
*Std OREAS 601	5.4	10.5	0.6
*Blk BLANK	<0.1	<0.1	<0.1

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05208

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	19-Oct-2020
Submission Number (229-246)	*BBY* MAX20_Core_14/ 246 Cores	Date Analysed	22-Oct-2020 - 02-Nov-2020
		Date Completed	03-Nov-2020
Number of Samples	18	SGS Order Number	BBM20-05208

Methods Summary

Number of Sample	Method Code	Description
18	G_WGH_KG	Weight of samples received
17	G_PRP	Combined Sample Preparation
18	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
18	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
18	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
18	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508229	3.34	9	7.65	645	8.06	39
3508230	1.24	10	0.07	27	>15.00	<1
3508231	5.98	10	7.70	623	8.69	55
3508232	4.59	12	7.27	501	8.39	46
3508233	4.73	11	7.27	543	7.76	42
3508234	5.41	11	6.91	770	7.77	49
3508235	4.89	12	7.70	819	7.84	47
3508236	4.86	24	5.66	416	10.24	105
3508237	4.69	14	5.74	591	9.16	117
3508238	4.96	24	7.01	713	7.80	49
3508239	4.88	17	7.32	651	7.62	47
3508240	0.15	652	7.61	949	2.53	52
3508241	5.17	21	7.21	402	8.71	54
3508242	4.99	23	7.36	446	8.56	74
3508243	4.29	28	7.27	319	9.01	39
3508244	4.04	<5	8.41	1437	4.93	3
3508245	3.79	51	9.26	1857	3.89	2
3508246	4.56	37	7.73	1767	4.33	5
*Std OREAS 520	-	-	5.93	1191	3.86	32
*Rep 3508246	-	-	9.34	1766	4.31	5
*Std OREAS 601	-	-	6.43	1784	1.23	33
*Blk BLANK	-	-	0.01	1	<0.01	1
*Blk BLANK	-	6	-	-	-	-
*Std SL76	-	5760	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508229	565	8.59	1.73	28	3.66	2211
3508230	2.3	0.19	0.01	<1	1.83	164
3508231	713	9.77	1.51	27	4.11	2320
3508232	508	10.26	1.58	24	4.20	2409
3508233	473	9.65	1.85	37	4.17	2240
3508234	357	9.91	1.91	43	4.33	2455
3508235	447	9.94	1.99	37	4.06	2270
3508236	550	10.27	1.08	26	5.27	2467
3508237	526	9.11	1.23	33	5.15	2271
3508238	517	9.52	2.02	25	3.93	2060
3508239	507	9.51	2.66	34	4.28	2370
3508240	5204	4.80	3.37	32	1.41	534
3508241	381	10.36	1.43	29	4.47	2330
3508242	411	10.41	1.53	28	4.45	2113
3508243	431	10.41	1.48	27	4.50	2148
3508244	134	7.43	2.46	22	2.45	1599
3508245	410	5.12	3.63	13	1.44	1129
3508246	373	5.05	2.69	14	1.48	1262
*Std OREAS 520	3017	>15.00	3.63	19	1.18	2358
*Rep 3508246	373	4.97	2.96	14	1.54	1250
*Std OREAS 601	987	2.50	2.14	22	0.38	482
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508229	1.90	29	0.13	0.80	646	0.74

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508230	0.03	1	<0.01	0.01	76.6	<0.01
3508231	1.38	32	0.19	0.97	837	0.62
3508232	1.49	29	0.19	0.53	755	0.66
3508233	1.61	26	0.19	0.55	744	0.61
3508234	1.73	28	0.18	0.51	711	0.61
3508235	1.77	26	0.20	0.25	783	0.61
3508236	0.83	47	0.13	0.32	722	0.59
3508237	1.12	55	0.13	0.36	512	0.51
3508238	1.36	27	0.17	0.47	813	0.59
3508239	1.58	28	0.19	1.02	652	0.63
3508240	2.06	33	0.11	0.82	352	0.48
3508241	1.35	29	0.22	0.43	793	0.63
3508242	1.26	28	0.18	0.31	788	0.61
3508243	1.14	30	0.19	0.32	784	0.65
3508244	3.27	12	0.22	0.49	682	0.56
3508245	3.58	8	0.14	0.60	928	0.37
3508246	3.99	8	0.14	0.46	925	0.38
*Std OREAS 520	1.38	74	0.07	0.98	101	0.38
*Rep 3508246	3.97	8	0.14	0.50	926	0.38
*Std OREAS 601	1.42	28	0.05	1.10	218	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508229	388	126	24.6	1.03	4	0.8
3508230	<2	4	1.5	<0.02	<1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508231	425	173	21.1	1.62	4	0.6
3508232	465	167	20.5	1.01	4	0.5
3508233	444	140	17.6	0.68	3	0.4
3508234	453	186	19.4	2.01	2	0.8
3508235	430	164	18.0	0.66	2	0.4
3508236	443	152	19.8	0.66	3	0.4
3508237	373	155	15.2	0.58	2	0.5
3508238	415	158	16.0	1.14	2	0.7
3508239	427	200	15.2	0.67	3	0.8
3508240	120	73	80.6	1.25	77	2.7
3508241	448	183	15.9	0.40	2	0.4
3508242	448	131	14.4	0.34	2	0.3
3508243	456	126	15.9	0.29	1	0.3
3508244	304	144	45.9	0.13	2	1.2
3508245	208	114	12.7	0.52	2	1.1
3508246	206	116	11.0	0.49	2	1.1
*Std OREAS 520	259	23	122	0.38	142	1.1
*Rep 3508246	209	116	11.3	0.55	3	1.1
*Std OREAS 601	29	1277	151	50.57	287	2.2
*Blk BLANK	<2	2	<0.5	0.04	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508229	0.04	0.40	15.92	45.6	1	19.0
3508230	<0.04	<0.02	1.07	2.2	<1	<0.1
3508231	0.78	0.74	14.49	55.0	1	19.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508232	0.13	0.43	13.48	45.9	1	18.3
3508233	0.05	0.31	13.26	45.2	2	18.2
3508234	3.75	0.73	13.39	45.2	2	18.0
3508235	<0.04	0.35	14.88	44.9	2	17.9
3508236	0.04	0.39	10.65	51.6	<1	17.1
3508237	0.05	0.37	11.41	52.9	<1	15.4
3508238	1.95	1.12	13.24	47.1	2	18.6
3508239	0.46	1.36	13.08	46.9	3	17.8
3508240	1.22	0.71	60.54	15.3	10	16.3
3508241	0.22	0.86	12.94	49.8	1	18.0
3508242	<0.04	0.34	11.34	48.6	1	18.5
3508243	<0.04	0.33	12.11	49.1	<1	18.3
3508244	<0.04	0.10	23.59	33.2	1	17.8
3508245	0.06	1.36	19.56	18.9	<1	23.1
3508246	0.08	0.53	18.96	18.3	<1	23.2
*Std OREAS 520	2.86	0.12	81.88	190	<1	18.1
*Rep 3508246	0.08	0.53	20.97	18.6	<1	23.2
*Std OREAS 601	18.88	7.61	60.22	5.5	6	20.2
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.2

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508229	1.08	0.07	6.7	0.33	3.27	2.1
3508230	0.03	<0.02	1.2	0.02	0.08	0.1
3508231	0.89	0.07	6.6	0.25	6.93	1.7
3508232	0.93	0.07	5.8	0.25	4.11	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508233	0.82	0.07	5.9	0.24	5.11	1.3
3508234	0.91	0.09	6.0	0.24	5.88	1.8
3508235	0.86	0.06	6.6	0.25	3.71	1.5
3508236	0.90	0.07	4.4	0.24	5.13	1.1
3508237	0.74	0.07	4.8	0.21	1.90	1.5
3508238	0.79	0.07	5.7	0.24	3.13	1.4
3508239	0.77	0.06	5.5	0.24	5.65	1.3
3508240	2.25	0.08	30.4	0.33	311	20.0
3508241	0.83	0.07	5.4	0.26	3.14	0.9
3508242	0.72	0.06	4.6	0.24	2.32	0.9
3508243	0.82	0.06	5.0	0.25	1.39	1.8
3508244	1.35	0.05	10.9	0.27	3.91	6.0
3508245	0.66	0.05	9.9	0.22	5.96	8.3
3508246	0.60	0.04	9.4	0.21	4.60	8.7
*Std OREAS 520	3.53	0.11	81.9	0.36	61.78	4.9
*Rep 3508246	0.63	0.05	10.8	0.22	4.75	8.8
*Std OREAS 601	4.17	1.55	30.7	0.10	3.76	13.4
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508229	7.1	42.9	42.4	<2	2.49	0.9
3508230	0.8	0.3	<0.5	<2	<0.05	<0.3
3508231	64.6	38.5	39.4	3	3.64	0.8
3508232	13.4	40.0	37.3	<2	3.52	0.7
3508233	5.8	52.6	35.9	<2	1.41	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508234	194	55.5	36.0	3	0.96	0.8
3508235	4.7	55.0	32.5	<2	1.18	0.7
3508236	7.6	26.7	43.3	<2	1.47	0.8
3508237	7.1	27.9	36.9	<2	1.44	0.7
3508238	161	61.8	35.5	2	2.17	0.7
3508239	41.1	81.5	35.6	3	0.79	0.7
3508240	19.4	153	10.7	3	2.95	3.0
3508241	16.2	38.8	37.2	<2	0.63	0.7
3508242	8.4	40.8	36.6	<2	0.84	0.6
3508243	3.2	38.4	37.5	<2	0.67	0.6
3508244	4.1	50.3	22.4	<2	0.51	0.8
3508245	10.9	51.4	7.9	<2	0.66	0.7
3508246	9.8	38.7	7.0	<2	0.73	0.6
*Std OREAS 520	6.5	100	15.5	<2	2.85	4.2
*Rep 3508246	10.6	43.7	9.1	<2	0.73	0.6
*Std OREAS 601	301	86.8	4.5	10	29.49	3.9
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508229	0.12	0.70	0.08	<0.2	0.21	0.14
3508230	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508231	0.09	0.54	0.11	0.2	0.20	0.24
3508232	0.08	0.56	0.08	0.3	0.23	0.19
3508233	0.07	0.53	0.06	0.3	0.28	0.17
3508234	0.09	0.53	0.15	0.4	0.34	0.29

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508235	0.08	0.58	0.09	0.2	0.28	0.14
3508236	0.05	0.54	0.10	0.2	0.14	0.16
3508237	0.06	0.48	0.08	0.2	0.14	0.25
3508238	0.07	0.54	0.08	0.3	0.32	0.24
3508239	0.07	0.57	0.11	0.3	0.41	0.31
3508240	1.27	0.68	0.50	15.8	0.81	4.36
3508241	<0.05	0.60	0.18	0.3	0.18	0.18
3508242	0.06	0.56	0.17	0.2	0.19	0.14
3508243	0.11	0.57	0.13	0.5	0.18	0.34
3508244	0.34	0.63	0.11	2.0	0.25	1.09
3508245	0.55	0.41	0.07	2.4	0.20	0.65
3508246	0.57	0.39	0.09	1.9	0.20	0.62
*Std OREAS 520	0.34	0.64	0.45	9.7	0.26	17.82
*Rep 3508246	0.57	0.43	0.10	2.4	0.19	0.59
*Std OREAS 601	0.90	0.51	14.70	10.7	1.14	3.87
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508229	0.8	22.6	2.2
3508230	<0.1	2.2	0.1
3508231	0.8	16.9	1.6
3508232	0.8	16.8	1.6
3508233	0.8	16.0	1.5
3508234	0.8	16.3	1.6
3508235	0.8	16.7	1.6
3508236	0.6	16.1	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_14/ 246 Cores
(229-246)
Number of Samples 18

ANALYSIS REPORT BBM20-05208

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508237	0.5	14.7	1.4
3508238	0.6	16.6	1.6
3508239	0.9	17.2	1.6
3508240	3.1	20.6	2.1
3508241	0.6	17.0	1.6
3508242	0.7	16.6	1.6
3508243	0.6	16.6	1.6
3508244	0.9	19.0	1.9
3508245	0.6	13.1	1.3
3508246	0.8	11.6	1.3
*Std OREAS 520	42.9	19.2	2.1
*Rep 3508246	0.8	12.9	1.3
*Std OREAS 601	5.4	10.5	0.6
*Blk BLANK	<0.1	<0.1	<0.1

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05218

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	21-Oct-2020
Submission Number	*BBY* MAX20_Core_16/ 329 Cores (1-76)	Date Analysed	24-Oct-2020 - 04-Nov-2020
		Date Completed	04-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05218

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508488	2.56	63	9.50	580	6.95	6
3508489	4.87	30	9.72	381	6.78	4
3508490	1.25	7	0.09	12	>15.00	<1
3508491	5.11	81	8.88	281	8.05	5
3508492	4.96	313	9.24	500	7.53	3
3508493	4.83	60	9.11	477	6.90	25
3508494	5.28	5	9.43	1411	3.26	5
3508495	-	7	9.47	1422	3.22	5
3508496	4.93	<5	9.54	1544	3.40	5
3508497	4.73	33	9.09	564	6.54	3
3508498	4.79	34	9.14	628	7.11	6
3508499	4.39	34	8.71	589	5.97	3
3508500	0.15	223	7.76	970	2.55	72
3508501	5.14	28	9.25	712	6.37	2
3508502	4.30	32	9.08	670	5.14	3
3508503	4.68	30	9.03	567	6.02	4
3508504	4.26	23	9.23	599	5.16	2
3508505	3.98	15	8.99	614	3.87	5
3508506	2.77	32	9.05	413	5.65	4
3508507	2.28	36	9.49	813	4.52	3
3508508	3.07	70	9.23	602	5.95	3
3508509	3.53	<5	9.42	1388	2.26	5
3508510	1.21	15	0.10	16	>15.00	<1
3508511	5.70	34	8.66	399	7.16	3
3508512	3.21	22	7.17	259	8.75	5
3508513	4.62	17	7.66	503	5.19	12
3508514	5.43	8	8.69	870	4.26	24
3508515	4.70	6	8.87	807	4.29	26
3508516	4.32	6	8.93	834	4.41	27

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(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508517	3.79	42	9.03	480	6.99	6
3508518	5.36	28	9.21	407	8.03	2
3508519	4.69	45	8.99	1083	5.65	12
3508520	0.15	235	7.84	986	2.57	68
3508521	5.21	47	8.39	720	7.40	17
3508522	4.60	218	8.44	832	4.68	16
3508523	5.49	165	8.51	1345	4.23	11
3508524	5.11	84	9.04	1416	4.54	8
3508525	4.84	110	8.09	1511	4.40	9
3508526	5.25	17	8.44	1622	4.18	10
3508527	5.02	21	8.92	1505	4.45	8
3508528	3.90	26	8.97	1430	4.53	4
3508529	2.51	53	9.21	1435	4.61	6
3508530	1.30	12	0.09	18	>15.00	2
3508531	3.96	8	6.42	873	6.19	256
3508532	5.50	170	6.19	806	6.91	260
3508533	5.24	44	6.35	1088	7.18	285
3508534	5.06	12	6.67	882	6.39	202
3508535	-	14	6.64	905	6.49	176
3508536	4.42	26	7.65	923	4.56	8
3508537	5.47	17	9.33	1429	4.15	3
3508538	4.49	62	8.45	1432	4.46	4
3508539	5.15	51	8.90	1283	5.15	4
3508540	0.15	231	7.67	997	2.67	72
3508541	4.46	32	9.18	1448	4.27	4
3508542	4.23	14	8.39	1562	4.00	4
3508543	4.77	12	9.06	1754	4.26	5
3508544	4.74	16	8.76	1388	4.59	4
3508545	4.86	18	9.49	1377	4.30	4

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508546	4.99	28	8.94	1325	4.89	5
3508547	4.87	21	9.64	1474	4.40	3
3508548	4.85	14	9.15	1496	4.36	3
3508549	4.93	18	9.18	1461	4.48	5
3508550	1.30	7	0.08	14	>15.00	1
3508551	4.71	13	9.37	1417	4.71	4
3508552	4.90	18	9.04	1429	4.21	5
3508553	4.77	12	9.64	1522	4.17	3
3508554	4.76	36	8.83	1538	3.74	5
3508555	4.69	23	8.77	1487	4.08	3
3508556	4.21	35	8.41	1302	3.74	6
3508557	4.91	62	8.18	1390	4.27	9
3508558	4.69	68	8.74	1527	3.96	5
3508559	4.89	75	9.14	1611	3.88	5
3508560	0.15	674	7.53	921	2.61	56
3508561	4.96	36	9.09	1594	4.18	3
3508562	4.95	32	9.29	1632	4.08	3
3508563	4.72	33	9.64	1736	3.86	4
*Dup 3508526	-	17	8.57	1540	4.00	8
*Std OXG123	-	1010	-	-	-	-
*Std SL76	-	5870	-	-	-	-
*Rep 3508501	-	26	-	-	-	-
*Blk BLANK	-	7	-	-	-	-
*Std GS-9B	-	8640	-	-	-	-
*Blk BLANK	-	6	-	-	-	-
*Rep 3508538	-	49	-	-	-	-
*Rep 3508547	-	21	-	-	-	-
*Std GS-9B	-	9470	-	-	-	-
*Std OXG123	-	1020	-	-	-	-

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(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std SL76	-	6040	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508528	-	-	8.97	1408	4.58	4
*Std OREAS 601	-	-	6.24	3033	1.30	36
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OREAS 601	-	-	6.29	642	1.26	28
*Std OREAS 520	-	-	5.73	673	3.92	33
*Blk BLANK	-	-	0.01	<1	<0.01	<1
*Rep 3508519	-	-	9.04	1093	5.79	12
*Std OREAS 520	-	-	5.86	1127	3.97	34
*Std OREAS 601	-	-	6.55	2868	1.30	38

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508488	707	9.48	1.71	29	2.76	1513
3508489	585	9.19	1.67	38	2.64	1460
3508490	3.8	0.29	0.02	1	2.84	189
3508491	661	10.32	0.97	21	2.53	1581
3508492	495	8.86	1.90	33	3.45	1416
3508493	590	8.99	1.54	29	2.92	1539
3508494	116	5.31	3.31	21	1.39	877
3508495	113	5.41	3.33	21	1.41	887
3508496	94.8	5.47	3.87	23	1.41	960
3508497	373	8.55	1.70	35	3.11	1535
3508498	406	8.69	1.91	38	3.21	1498

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(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508499	637	8.74	1.80	36	2.99	1462
3508500	2676	4.40	3.41	36	1.50	509
3508501	517	8.27	1.84	40	3.11	1462
3508502	686	8.85	2.06	39	3.05	1872
3508503	655	8.59	1.83	36	3.11	1786
3508504	759	8.90	2.22	43	3.25	1732
3508505	790	9.88	2.41	40	3.18	2611
3508506	786	8.94	1.82	32	3.06	1924
3508507	845	8.92	3.11	29	2.59	1368
3508508	947	9.43	2.72	32	3.48	1762
3508509	124	5.63	3.81	23	1.68	1038
3508510	4.4	0.21	0.02	1	2.05	167
3508511	612	10.31	1.79	35	3.86	1711
3508512	410	12.01	1.10	25	4.54	1921
3508513	529	9.59	1.83	27	3.50	2368
3508514	33.0	5.80	3.80	17	2.43	1067
3508515	66.2	6.07	3.54	21	2.53	1039
3508516	101	6.13	3.00	20	2.41	1045
3508517	779	8.07	2.22	25	3.28	1159
3508518	505	8.59	1.34	20	3.62	1332
3508519	745	6.75	2.98	19	2.59	1192
3508520	2702	4.44	3.44	36	1.52	518
3508521	413	8.45	1.68	21	3.62	1437
3508522	1519	7.39	2.55	17	2.67	1344
3508523	1393	7.65	3.10	14	2.14	1266
3508524	660	5.26	3.45	13	1.86	1153
3508525	991	5.38	3.19	17	1.90	1171
3508526	317	5.48	3.15	19	1.93	1113
3508527	338	5.34	3.13	16	1.97	1115

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(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508528	363	5.39	3.08	19	1.88	1258
3508529	840	4.77	3.17	21	1.98	1317
3508530	3.7	0.20	0.03	1	2.41	173
3508531	337	7.74	3.76	27	5.41	1860
3508532	259	7.45	3.49	32	5.47	1696
3508533	149	7.49	3.41	39	5.42	1412
3508534	197	6.98	4.10	29	4.71	1531
3508535	185	7.09	3.90	30	4.71	1510
3508536	255	6.90	5.21	19	2.65	1446
3508537	310	5.76	3.40	20	1.88	1294
3508538	556	5.18	4.16	10	1.46	1265
3508539	378	5.67	3.08	12	1.57	1227
3508540	2824	4.53	3.29	36	1.51	555
3508541	318	5.26	3.22	9	1.52	946
3508542	244	5.29	3.09	10	1.50	936
3508543	149	5.31	3.21	9	1.40	1003
3508544	219	4.66	3.46	10	1.06	1116
3508545	239	5.00	2.87	11	1.58	939
3508546	191	5.01	2.92	11	1.39	1089
3508547	203	5.26	2.83	15	1.67	980
3508548	246	5.20	3.02	16	1.66	1071
3508549	291	5.55	3.12	18	1.69	1170
3508550	2.3	0.20	0.02	<1	2.13	176
3508551	152	5.22	2.65	18	1.73	1066
3508552	260	5.81	3.45	24	1.73	1152
3508553	120	5.46	3.32	21	1.61	970
3508554	400	6.02	3.95	16	1.68	1133
3508555	197	5.46	3.24	16	1.60	1050
3508556	320	5.95	4.54	15	1.53	1050

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(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508557	448	6.35	4.07	16	1.55	1258
3508558	506	5.59	3.34	11	1.55	1199
3508559	526	5.03	3.56	11	1.40	1142
3508560	5374	4.97	3.27	32	1.41	532
3508561	187	4.84	3.16	12	1.32	1084
3508562	163	4.48	3.22	12	1.26	1006
3508563	196	4.45	3.69	10	1.17	1041
*Dup 3508526	294	5.22	2.91	18	1.85	1039
*Rep 3508528	363	5.34	3.18	19	1.88	1245
*Std OREAS 601	1022	2.62	2.15	22	0.38	499
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Std OREAS 601	982	2.50	2.15	22	0.38	456
*Std OREAS 520	2890	>15.00	3.67	18	1.17	2224
*Blk BLANK	0.8	0.01	<0.01	<1	<0.01	2
*Rep 3508519	778	6.84	2.99	19	2.59	1197
*Std OREAS 520	2933	>15.00	3.68	19	1.14	2270
*Std OREAS 601	991	2.55	2.22	22	0.38	468

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508488	1.57	15	0.21	0.01	781	0.57
3508489	1.86	15	0.26	0.02	961	0.56
3508490	0.04	<1	<0.01	0.01	75.2	<0.01
3508491	1.62	16	0.09	0.02	957	0.70
3508492	1.54	14	0.16	0.03	722	0.61
3508493	2.07	19	0.16	0.02	819	0.67

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(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508494	3.74	6	0.20	0.01	725	0.44
3508495	3.66	7	0.20	0.01	714	0.45
3508496	3.45	6	0.20	0.02	717	0.45
3508497	2.22	12	0.19	0.02	834	0.62
3508498	2.06	13	0.22	0.02	854	0.66
3508499	2.30	13	0.23	0.02	701	0.69
3508500	2.10	57	0.11	0.36	314	0.47
3508501	2.25	13	0.17	0.01	794	0.66
3508502	2.15	14	0.14	0.02	706	0.64
3508503	1.79	14	0.11	0.01	832	0.63
3508504	1.82	14	0.17	0.01	708	0.65
3508505	1.57	15	0.17	0.01	550	0.66
3508506	1.89	14	0.13	0.02	791	0.65
3508507	1.58	12	0.17	0.02	631	0.66
3508508	1.33	15	0.19	0.03	647	0.66
3508509	3.42	6	0.19	<0.01	647	0.45
3508510	0.05	<1	<0.01	0.01	78.9	<0.01
3508511	1.22	17	0.11	0.04	740	0.70
3508512	0.86	21	0.06	0.06	689	0.80
3508513	1.81	19	0.10	0.29	470	0.73
3508514	2.80	17	0.19	0.11	570	0.60
3508515	2.82	18	0.19	0.31	607	0.62
3508516	3.19	18	0.19	0.36	653	0.62
3508517	1.50	12	0.19	0.51	615	0.51
3508518	1.50	15	0.05	0.33	798	0.59
3508519	2.52	12	0.15	1.08	683	0.53
3508520	2.13	57	0.10	0.36	318	0.47
3508521	1.81	17	0.14	0.41	767	0.72
3508522	2.86	16	0.14	2.02	636	0.57

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508523	2.92	14	0.12	1.15	743	0.55
3508524	3.25	10	0.14	0.63	762	0.50
3508525	3.24	10	0.13	0.29	795	0.54
3508526	3.26	10	0.13	0.49	992	0.56
3508527	3.22	11	0.14	0.96	1029	0.52
3508528	3.23	8	0.15	0.45	1037	0.56
3508529	3.24	9	0.16	1.04	889	0.55
3508530	0.05	<1	<0.01	0.02	79.8	<0.01
3508531	1.89	106	0.21	0.82	413	0.44
3508532	1.68	105	0.20	0.71	474	0.42
3508533	1.40	107	0.20	0.25	593	0.43
3508534	1.80	81	0.19	0.77	548	0.43
3508535	1.74	82	0.19	0.75	551	0.43
3508536	2.34	22	0.20	1.26	535	0.42
3508537	3.20	8	0.15	1.75	869	0.54
3508538	2.71	7	0.14	1.77	596	0.44
3508539	2.85	8	0.15	1.36	667	0.48
3508540	2.05	55	0.10	0.36	322	0.51
3508541	3.37	6	0.15	1.45	779	0.42
3508542	3.37	6	0.14	1.06	800	0.42
3508543	3.21	6	0.14	0.76	818	0.40
3508544	2.79	5	0.14	1.04	499	0.37
3508545	3.49	6	0.15	1.11	781	0.46
3508546	3.42	5	0.15	0.66	760	0.43
3508547	3.63	6	0.15	1.06	935	0.48
3508548	3.48	6	0.15	1.43	882	0.46
3508549	3.40	7	0.16	1.52	865	0.46
3508550	0.04	<1	<0.01	0.01	80.0	<0.01
3508551	3.58	6	0.15	1.21	971	0.48

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508552	3.28	7	0.15	1.78	826	0.45
3508553	3.65	5	0.16	1.09	866	0.46
3508554	3.14	6	0.15	1.35	781	0.43
3508555	3.48	6	0.15	0.88	867	0.44
3508556	2.59	8	0.14	1.83	487	0.39
3508557	2.57	11	0.15	1.35	447	0.39
3508558	3.43	8	0.15	0.63	781	0.42
3508559	3.66	7	0.14	0.63	744	0.41
3508560	2.05	32	0.10	0.81	362	0.52
3508561	3.72	5	0.16	0.72	898	0.41
3508562	3.79	4	0.16	1.02	889	0.38
3508563	3.81	4	0.16	0.77	767	0.35
*Dup 3508526	3.08	9	0.13	0.49	951	0.53
*Rep 3508528	3.27	8	0.15	0.46	1050	0.56
*Std OREAS 601	1.43	25	0.04	1.10	227	0.19
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 601	1.46	23	0.05	1.02	222	0.18
*Std OREAS 520	1.43	72	0.07	0.93	102	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Rep 3508519	2.54	12	0.15	1.09	696	0.54
*Std OREAS 520	1.42	73	0.07	0.96	104	0.39
*Std OREAS 601	1.48	27	0.05	1.10	232	0.18

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508488	455	53	23.6	1.06	14	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508489	415	57	24.6	0.88	16	1.0
3508490	3	3	1.3	<0.02	<1	<0.1
3508491	526	55	27.1	0.95	16	0.7
3508492	463	64	27.3	0.83	9	0.5
3508493	434	83	25.2	0.76	6	0.7
3508494	153	78	45.7	0.17	4	1.5
3508495	161	76	48.2	0.19	5	1.6
3508496	158	63	45.4	0.22	5	1.5
3508497	386	157	21.7	0.53	6	0.6
3508498	425	218	22.6	0.64	5	0.5
3508499	422	153	24.4	0.99	9	0.6
3508500	121	73	72.3	0.37	24	3.4
3508501	421	124	22.2	0.64	6	0.6
3508502	441	164	20.5	1.16	13	0.6
3508503	426	135	23.3	1.00	11	0.6
3508504	458	123	24.6	1.09	6	0.5
3508505	486	390	23.1	1.38	12	0.7
3508506	459	231	21.0	1.29	13	0.7
3508507	439	110	28.5	1.36	21	0.8
3508508	478	140	27.6	1.38	18	0.7
3508509	172	80	45.3	0.20	7	1.6
3508510	3	3	1.4	0.08	<1	<0.1
3508511	530	120	26.2	1.02	7	0.6
3508512	634	103	33.3	0.53	7	0.6
3508513	442	108	33.4	0.55	8	1.2
3508514	211	57	48.1	0.04	4	1.4
3508515	220	51	50.3	0.09	3	1.5
3508516	211	57	50.5	0.07	4	1.4
3508517	368	85	27.4	0.93	4	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508518	409	85	28.2	0.54	5	0.5
3508519	312	132	21.1	1.62	7	0.9
3508520	122	76	70.5	0.37	23	3.6
3508521	407	88	37.5	0.39	6	0.7
3508522	317	101	23.2	2.07	11	1.1
3508523	348	106	30.2	1.81	6	1.1
3508524	248	64	32.9	0.95	5	1.2
3508525	236	74	35.2	1.27	5	1.4
3508526	246	58	33.4	0.20	6	1.5
3508527	231	58	29.2	0.30	6	1.3
3508528	224	56	28.4	0.32	6	1.4
3508529	226	67	28.5	0.98	4	1.3
3508530	2	3	1.4	<0.02	<1	<0.1
3508531	295	136	38.2	0.58	5	1.6
3508532	311	98	36.4	0.44	6	1.6
3508533	275	62	37.5	0.15	6	1.2
3508534	270	83	35.8	0.22	6	1.7
3508535	260	79	33.5	0.25	6	1.7
3508536	294	99	39.7	0.37	2	1.9
3508537	223	71	31.1	0.09	6	1.4
3508538	211	67	18.5	0.76	4	1.3
3508539	235	44	22.7	0.44	5	1.1
3508540	121	77	75.5	0.20	24	3.3
3508541	211	38	22.3	0.30	4	1.1
3508542	216	37	17.0	0.09	8	1.1
3508543	204	33	15.6	0.05	4	1.0
3508544	209	37	14.3	0.38	4	1.2
3508545	216	37	13.8	0.11	7	1.2
3508546	214	35	11.0	0.05	4	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508547	216	31	15.2	0.03	3	1.1
3508548	218	33	15.0	0.08	3	1.1
3508549	225	38	15.1	0.10	3	1.2
3508550	<2	3	1.4	0.03	<1	<0.1
3508551	225	38	15.2	<0.02	3	1.1
3508552	224	40	13.4	0.13	4	1.1
3508553	198	37	11.6	<0.02	2	1.1
3508554	211	44	14.9	0.35	3	1.1
3508555	202	41	14.7	0.04	2	1.1
3508556	207	50	14.3	0.23	4	1.1
3508557	216	70	15.1	0.87	5	1.1
3508558	217	60	15.9	0.54	3	1.0
3508559	185	51	17.4	0.60	3	1.0
3508560	116	67	89.0	1.05	90	3.0
3508561	183	45	13.8	0.09	3	1.1
3508562	178	40	12.4	0.13	4	1.3
3508563	174	40	14.1	0.21	4	1.2
*Dup 3508526	227	58	33.0	0.15	4	1.4
*Rep 3508528	230	57	29.1	0.32	6	1.4
*Std OREAS 601	27	1243	160	49.69	285	2.5
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Std OREAS 601	28	1239	153	53.04	323	2.3
*Std OREAS 520	248	21	128	0.38	153	1.2
*Blk BLANK	<2	<1	<0.5	0.05	<1	<0.1
*Rep 3508519	309	130	20.5	1.39	6	0.9
*Std OREAS 520	255	21	127	0.39	154	1.3
*Std OREAS 601	28	1245	158	51.98	306	2.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508488	0.07	0.14	17.17	36.5	1	21.9
3508489	0.13	0.17	19.29	43.2	1	22.4
3508490	<0.04	<0.02	1.30	1.6	<1	0.1
3508491	0.18	0.27	13.14	45.7	<1	22.7
3508492	0.06	0.17	16.11	37.6	<1	21.4
3508493	0.09	0.26	17.09	38.5	<1	21.9
3508494	<0.04	0.17	30.90	14.9	<1	19.2
3508495	<0.04	0.18	32.04	15.3	<1	19.9
3508496	<0.04	0.17	31.61	15.0	<1	19.4
3508497	0.04	0.28	18.13	36.7	<1	20.4
3508498	0.04	0.71	18.61	36.6	1	21.0
3508499	0.10	0.39	20.21	32.8	1	20.2
3508500	0.66	0.27	74.66	16.3	12	18.9
3508501	0.04	0.26	16.95	38.0	1	21.1
3508502	0.32	0.96	15.37	38.9	<1	21.6
3508503	0.15	0.64	13.53	38.6	<1	22.1
3508504	0.13	0.72	15.59	41.8	2	21.5
3508505	0.73	3.50	16.06	47.0	3	24.0
3508506	0.37	1.24	13.59	38.3	1	21.7
3508507	0.25	0.42	18.14	34.8	2	22.0
3508508	0.19	0.44	16.83	46.7	2	22.0
3508509	0.04	0.21	31.89	17.5	<1	20.4
3508510	<0.04	<0.02	1.13	1.6	<1	0.2
3508511	0.15	0.40	12.61	49.1	<1	21.7
3508512	0.07	0.30	11.29	56.8	<1	21.7
3508513	0.23	0.45	17.33	45.7	2	21.5
3508514	<0.04	0.06	27.29	23.9	2	19.2
3508515	<0.04	0.07	26.85	25.7	2	19.6
3508516	<0.04	0.09	27.88	29.4	1	20.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508517	0.09	0.27	16.92	45.0	2	20.7
3508518	0.07	0.23	10.73	45.0	<1	21.8
3508519	0.23	2.61	17.65	32.3	1	22.1
3508520	0.69	0.29	75.28	16.9	13	19.1
3508521	0.07	0.20	17.28	41.9	<1	23.4
3508522	0.42	0.49	21.39	34.6	1	22.7
3508523	0.15	0.50	22.66	26.9	<1	24.4
3508524	0.08	0.32	24.54	23.6	1	23.5
3508525	0.20	0.36	24.74	21.5	<1	25.0
3508526	0.07	0.26	25.99	22.4	<1	25.5
3508527	0.10	0.21	24.94	21.6	<1	22.6
3508528	0.06	0.17	27.07	19.5	<1	23.7
3508529	0.12	0.31	27.67	19.6	<1	22.1
3508530	<0.04	<0.02	1.13	1.6	<1	0.4
3508531	0.76	0.54	18.39	43.2	7	15.6
3508532	0.29	0.27	18.12	40.8	6	14.8
3508533	<0.04	0.08	17.51	40.6	5	14.6
3508534	0.09	0.13	19.55	37.2	6	15.7
3508535	0.09	0.13	19.53	38.3	6	15.5
3508536	0.58	0.60	23.21	27.7	5	16.7
3508537	0.20	0.11	26.40	22.3	1	23.5
3508538	0.29	0.70	23.71	21.0	1	21.9
3508539	0.19	0.25	24.31	23.2	<1	22.8
3508540	0.66	0.27	72.81	16.2	13	19.7
3508541	0.14	0.15	25.06	20.3	<1	23.7
3508542	0.09	0.10	24.47	17.1	<1	23.3
3508543	0.10	0.15	25.29	17.8	<1	23.0
3508544	0.13	0.30	25.09	17.7	1	22.6
3508545	0.09	0.11	27.84	18.6	<1	24.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508546	0.08	0.16	26.65	16.0	<1	23.7
3508547	0.12	0.06	27.75	19.7	<1	24.6
3508548	0.11	0.08	27.49	19.5	1	23.8
3508549	0.13	0.09	28.44	18.5	<1	24.5
3508550	<0.04	<0.02	1.11	1.6	<1	0.3
3508551	0.12	0.08	26.31	18.7	<1	25.1
3508552	0.16	0.10	26.68	19.9	<1	25.6
3508553	0.10	0.06	28.93	17.0	<1	25.0
3508554	0.11	0.16	26.54	19.1	1	24.0
3508555	0.08	0.08	25.58	18.0	<1	24.2
3508556	0.24	0.13	24.81	17.2	2	23.1
3508557	0.19	0.36	25.21	18.4	2	23.2
3508558	0.06	0.23	27.45	17.7	<1	23.3
3508559	0.06	0.21	27.03	15.8	<1	22.4
3508560	1.34	0.59	69.09	17.4	12	19.2
3508561	0.08	0.10	27.94	15.0	<1	23.9
3508562	0.10	0.09	27.09	15.4	<1	24.6
3508563	0.08	0.16	26.67	13.2	<1	22.9
*Dup 3508526	0.06	0.30	26.31	21.9	<1	23.2
*Rep 3508528	0.06	0.16	28.29	19.7	<1	23.8
*Std OREAS 601	19.24	8.27	62.95	5.8	8	21.6
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.2
*Std OREAS 601	20.14	8.11	67.16	5.5	7	21.1
*Std OREAS 520	2.91	0.10	87.49	207	<1	18.8
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Rep 3508519	0.21	2.59	17.59	31.8	1	21.5
*Std OREAS 520	2.98	0.09	90.45	221	<1	19.6
*Std OREAS 601	20.67	7.89	65.55	5.8	7	21.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508488	1.04	0.10	7.8	0.26	0.61	3.2
3508489	0.93	0.09	8.8	0.24	1.05	3.3
3508490	0.04	<0.02	1.3	0.02	0.09	0.1
3508491	1.24	0.12	5.8	0.25	2.47	3.7
3508492	1.17	0.08	7.1	0.24	0.63	3.9
3508493	1.09	0.10	7.5	0.25	1.72	4.5
3508494	1.24	0.04	14.4	0.28	0.56	9.3
3508495	1.23	0.04	15.1	0.28	0.56	9.4
3508496	1.21	0.04	14.8	0.29	0.69	9.2
3508497	0.99	0.07	8.1	0.24	0.70	4.0
3508498	0.95	0.07	8.2	0.23	0.87	3.6
3508499	0.98	0.08	9.2	0.25	1.90	5.2
3508500	2.41	0.07	36.6	0.39	101	19.4
3508501	0.94	0.06	7.7	0.23	0.74	4.3
3508502	0.94	0.09	6.9	0.23	3.16	3.8
3508503	0.97	0.08	6.0	0.21	1.19	3.6
3508504	1.00	0.07	6.9	0.22	0.96	3.6
3508505	0.82	0.09	7.1	0.23	7.15	3.7
3508506	0.91	0.11	6.1	0.22	4.77	3.2
3508507	1.06	0.08	8.2	0.24	5.55	4.2
3508508	1.06	0.09	7.2	0.25	2.99	3.4
3508509	1.21	0.05	15.0	0.28	0.89	9.0
3508510	0.04	<0.02	1.3	0.02	0.07	0.1
3508511	1.13	0.08	5.2	0.23	1.72	3.0
3508512	1.43	0.09	4.5	0.27	0.87	3.9
3508513	1.23	0.13	7.4	0.27	4.76	6.1
3508514	1.28	0.05	12.1	0.28	10.91	10.6
3508515	1.34	0.05	11.9	0.28	8.92	10.2
3508516	1.46	0.05	12.3	0.30	7.07	10.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508517	0.96	0.07	7.6	0.20	5.42	4.4
3508518	1.13	0.07	4.8	0.19	2.59	4.3
3508519	0.89	0.07	8.3	0.22	43.58	6.9
3508520	2.44	0.07	36.3	0.41	102	19.9
3508521	1.55	0.08	7.8	0.25	2.54	6.6
3508522	1.12	0.11	10.4	0.23	3.56	8.8
3508523	1.31	0.09	11.3	0.22	2.23	10.6
3508524	1.28	0.06	12.3	0.21	3.96	11.3
3508525	1.52	0.06	12.8	0.23	21.00	13.6
3508526	1.48	0.04	13.5	0.25	33.46	13.8
3508527	1.11	0.04	13.2	0.24	3.69	11.8
3508528	1.25	0.05	13.7	0.26	3.22	13.2
3508529	1.10	0.07	14.7	0.27	6.08	12.2
3508530	0.03	<0.02	1.3	0.03	0.22	0.2
3508531	1.07	0.05	9.2	0.22	58.13	3.5
3508532	1.03	0.05	9.8	0.21	124	3.1
3508533	1.02	0.04	8.8	0.21	9.49	3.3
3508534	0.95	0.05	10.0	0.21	9.00	4.5
3508535	1.00	0.04	9.7	0.21	6.78	4.3
3508536	0.99	0.04	12.0	0.21	205	5.2
3508537	1.20	0.06	13.9	0.25	3.29	12.3
3508538	0.71	0.06	12.3	0.23	50.75	10.0
3508539	0.87	0.05	12.9	0.23	1.82	9.8
3508540	2.48	0.07	35.9	0.41	106	20.4
3508541	0.71	0.06	13.2	0.23	2.69	9.7
3508542	0.73	0.05	12.4	0.25	2.33	9.6
3508543	0.63	0.05	13.3	0.24	2.10	8.4
3508544	0.56	0.05	13.2	0.22	3.19	8.5
3508545	0.53	0.05	14.9	0.25	4.36	11.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508546	0.53	0.05	14.0	0.24	1.81	9.9
3508547	0.67	0.06	14.8	0.25	4.77	10.2
3508548	0.66	0.05	14.6	0.25	5.01	10.6
3508549	0.64	0.06	15.6	0.25	8.75	10.2
3508550	0.03	<0.02	1.3	0.03	0.12	0.1
3508551	0.65	0.05	13.5	0.25	4.67	10.4
3508552	0.60	0.05	13.4	0.25	13.77	10.0
3508553	0.54	0.05	14.8	0.25	8.23	10.5
3508554	0.61	0.05	13.6	0.24	9.29	10.0
3508555	0.65	0.05	13.2	0.24	7.41	10.3
3508556	0.62	0.05	12.5	0.23	10.91	8.9
3508557	0.65	0.06	12.7	0.22	8.46	8.0
3508558	0.75	0.05	14.2	0.25	6.16	9.0
3508559	0.77	0.05	13.9	0.26	4.96	8.9
3508560	2.74	0.09	34.8	0.40	349	22.1
3508561	0.67	0.05	14.3	0.27	5.87	9.6
3508562	0.59	0.05	13.4	0.26	6.09	10.8
3508563	0.67	0.05	13.5	0.27	6.30	10.0
*Dup 3508526	1.41	0.04	13.8	0.25	28.52	13.0
*Rep 3508528	1.31	0.05	14.6	0.28	3.28	13.3
*Std OREAS 601	4.36	1.76	32.2	0.12	4.16	14.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.33	1.80	32.8	0.10	3.83	13.3
*Std OREAS 520	3.65	0.12	86.5	0.37	65.88	5.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508519	0.85	0.07	8.4	0.22	42.70	6.6
*Std OREAS 520	3.78	0.13	88.7	0.39	70.83	5.6
*Std OREAS 601	4.50	1.73	32.0	0.11	4.12	13.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508488	3.3	62.6	33.4	<2	2.28	1.1
3508489	3.3	73.3	30.1	<2	3.29	1.0
3508490	0.8	0.5	<0.5	<2	0.05	<0.3
3508491	4.5	31.4	35.6	<2	4.04	1.2
3508492	2.8	67.6	32.7	<2	2.12	0.8
3508493	3.3	56.5	29.6	<2	1.73	0.9
3508494	2.9	60.1	15.1	<2	1.58	1.0
3508495	2.9	62.3	15.9	<2	1.66	1.0
3508496	3.5	68.1	15.6	<2	1.72	1.1
3508497	2.9	60.3	28.3	<2	2.53	0.9
3508498	3.1	68.1	28.6	<2	2.52	0.8
3508499	4.0	59.8	28.8	<2	2.47	1.0
3508500	20.7	209	14.8	2	2.26	3.4
3508501	4.1	63.9	28.5	<2	3.24	0.7
3508502	25.3	62.7	31.3	<2	4.86	1.0
3508503	11.5	56.0	30.9	<2	6.05	0.8
3508504	5.0	80.1	30.1	<2	2.96	0.8
3508505	45.0	84.0	33.2	2	3.73	0.9
3508506	9.2	58.9	30.2	<2	5.73	0.8
3508507	4.8	102	32.5	<2	5.99	0.8
3508508	3.4	85.6	32.5	<2	5.96	0.8
3508509	3.8	75.0	17.3	<2	2.57	1.1
3508510	0.8	0.5	<0.5	<2	0.05	<0.3
3508511	3.9	59.9	36.2	<2	2.80	0.7
3508512	3.7	33.9	43.0	<2	3.58	0.9
3508513	7.3	57.3	34.1	<2	3.96	4.5
3508514	5.3	89.6	18.7	<2	2.70	1.0
3508515	6.6	81.1	19.7	<2	1.30	1.0
3508516	6.6	66.1	20.0	<2	1.65	1.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508517	8.4	70.0	23.1	<2	3.20	0.9
3508518	4.1	43.2	28.0	<2	4.39	0.9
3508519	116	69.6	20.1	<2	2.45	0.8
3508520	21.5	205	14.1	<2	2.30	3.5
3508521	3.6	46.9	30.0	<2	3.48	0.9
3508522	10.7	67.8	23.1	3	2.60	1.0
3508523	5.4	64.2	17.3	2	2.18	1.1
3508524	8.0	74.1	15.3	<2	2.53	0.8
3508525	41.1	57.9	16.0	<2	3.06	0.9
3508526	6.1	53.4	16.6	<2	3.17	0.8
3508527	8.5	56.1	16.7	<2	3.16	0.8
3508528	4.7	58.6	15.6	<2	2.00	0.9
3508529	5.9	61.8	15.9	<2	2.00	1.0
3508530	0.9	0.8	<0.5	<2	0.08	<0.3
3508531	47.0	144	32.8	<2	1.28	0.7
3508532	15.8	124	32.5	<2	2.00	0.7
3508533	4.1	116	33.9	<2	1.92	0.6
3508534	8.4	136	28.2	<2	2.02	0.7
3508535	8.8	136	30.7	<2	2.05	0.7
3508536	40.0	157	22.0	<2	0.77	0.7
3508537	8.8	76.3	15.6	2	1.60	1.0
3508538	49.5	88.1	12.8	2	1.76	0.8
3508539	9.7	80.9	14.6	<2	2.42	0.7
3508540	23.8	199	15.0	2	2.22	3.3
3508541	7.0	66.0	11.5	<2	1.94	0.7
3508542	6.7	55.5	10.3	<2	1.55	0.8
3508543	7.6	64.9	10.8	<2	1.86	0.7
3508544	12.0	85.7	11.8	<2	2.54	0.7
3508545	6.5	57.8	13.3	<2	1.76	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508546	7.2	59.9	12.1	<2	1.53	0.6
3508547	3.4	52.8	12.6	<2	0.97	0.7
3508548	4.1	61.9	13.0	<2	0.73	0.8
3508549	4.5	58.8	13.2	<2	1.26	1.1
3508550	0.6	0.5	<0.5	<2	<0.05	<0.3
3508551	11.0	45.6	13.2	<2	1.59	0.6
3508552	5.7	67.3	12.6	<2	1.32	0.9
3508553	3.8	64.9	11.4	<2	1.10	0.7
3508554	4.2	73.5	11.2	<2	1.02	0.8
3508555	4.1	58.7	10.8	<2	1.05	0.7
3508556	8.3	99.7	11.5	<2	1.65	0.9
3508557	39.3	98.9	13.4	<2	1.98	0.8
3508558	5.4	59.0	11.4	<2	1.29	0.8
3508559	4.2	56.7	10.2	<2	1.43	0.5
3508560	22.8	183	14.2	3	3.30	3.4
3508561	5.4	53.2	9.5	<2	1.80	0.6
3508562	4.6	50.1	8.3	<2	1.84	0.7
3508563	7.7	57.5	7.7	<2	1.52	0.7
*Dup 3508526	5.5	50.9	16.7	<2	3.02	0.8
*Rep 3508528	4.9	59.7	16.1	<2	2.05	0.9
*Std OREAS 601	301	94.6	6.0	11	30.70	4.3
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	301	100	5.5	12	31.73	4.3
*Std OREAS 520	6.0	113	16.7	<2	3.19	4.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508519	114	67.1	19.6	<2	2.47	0.8
*Std OREAS 520	6.4	117	17.5	<2	3.41	4.9
*Std OREAS 601	319	96.5	5.0	12	30.70	4.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508488	0.20	0.61	0.07	0.7	0.23	0.39
3508489	0.20	0.61	0.10	0.8	0.25	0.60
3508490	<0.05	<0.05	<0.05	<0.2	<0.02	0.15
3508491	0.23	0.54	0.16	0.8	0.12	0.53
3508492	0.23	0.59	0.07	0.7	0.23	0.35
3508493	0.25	0.58	0.09	0.9	0.20	0.48
3508494	0.55	0.70	<0.05	2.8	0.20	1.25
3508495	0.55	0.72	<0.05	2.7	0.20	1.28
3508496	0.56	0.74	<0.05	2.8	0.23	1.30
3508497	0.21	0.60	0.06	0.7	0.20	0.37
3508498	0.20	0.60	0.06	0.7	0.23	0.38
3508499	0.27	0.62	0.13	1.0	0.20	0.49
3508500	1.39	0.84	0.26	19.7	0.96	5.30
3508501	0.24	0.54	0.08	0.7	0.22	0.32
3508502	0.20	0.56	0.16	0.6	0.24	0.35
3508503	0.20	0.50	0.13	0.6	0.22	0.30
3508504	0.20	0.56	0.12	0.7	0.29	0.33
3508505	0.21	0.59	0.20	0.7	0.39	0.46
3508506	0.18	0.52	0.16	0.6	0.21	0.35
3508507	0.24	0.62	0.16	1.1	0.33	0.55
3508508	0.19	0.61	0.14	0.9	0.30	0.43
3508509	0.51	0.71	<0.05	2.6	0.24	1.20
3508510	<0.05	<0.05	<0.05	<0.2	<0.02	0.12
3508511	0.18	0.55	0.09	0.6	0.20	0.28
3508512	0.23	0.58	0.07	0.7	0.12	0.30
3508513	0.38	0.63	0.17	1.0	0.22	0.53
3508514	0.64	0.67	<0.05	1.8	0.33	0.89
3508515	0.62	0.68	0.06	1.8	0.30	0.90
3508516	0.66	0.70	<0.05	1.8	0.25	0.93

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508517	0.24	0.51	0.11	0.9	0.30	0.47
3508518	0.25	0.43	0.08	0.8	0.16	0.34
3508519	0.44	0.48	0.10	1.7	0.25	0.62
3508520	1.43	0.88	0.29	20.0	1.00	5.18
3508521	0.38	0.55	0.10	1.2	0.14	0.49
3508522	0.51	0.53	0.34	2.0	0.25	0.77
3508523	0.65	0.48	0.22	2.2	0.20	0.76
3508524	0.66	0.48	0.09	2.5	0.21	1.02
3508525	0.87	0.50	0.06	2.9	0.20	1.27
3508526	0.85	0.53	0.06	2.8	0.17	1.20
3508527	0.72	0.51	0.08	3.1	0.21	1.07
3508528	0.74	0.56	0.06	2.2	0.17	0.99
3508529	0.72	0.58	0.08	2.7	0.18	1.12
3508530	<0.05	<0.05	<0.05	<0.2	<0.02	0.12
3508531	0.19	0.46	<0.05	2.1	0.68	1.34
3508532	0.18	0.44	0.11	2.0	0.68	2.40
3508533	0.18	0.45	0.05	2.0	0.56	1.07
3508534	0.24	0.46	0.09	2.1	0.65	1.18
3508535	0.23	0.47	0.11	2.1	0.65	1.21
3508536	0.28	0.45	0.18	2.7	0.69	1.56
3508537	0.70	0.56	0.16	2.8	0.24	1.08
3508538	0.59	0.51	0.14	2.5	0.33	1.11
3508539	0.52	0.53	0.12	2.3	0.29	0.71
3508540	1.48	0.89	0.24	21.1	0.96	5.46
3508541	0.66	0.51	0.10	3.2	0.25	0.70
3508542	0.63	0.51	0.09	2.5	0.21	0.69
3508543	0.53	0.51	0.08	2.3	0.25	0.58
3508544	0.53	0.50	0.07	2.7	0.38	0.64
3508545	0.60	0.55	0.06	3.0	0.20	1.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508546	0.54	0.52	0.06	2.6	0.23	0.70
3508547	0.58	0.54	0.09	2.9	0.19	0.80
3508548	0.60	0.53	0.10	2.9	0.23	0.84
3508549	0.57	0.55	0.11	2.9	0.23	0.81
3508550	<0.05	<0.05	<0.05	<0.2	<0.02	0.13
3508551	0.59	0.53	0.08	2.7	0.17	0.58
3508552	0.57	0.52	0.08	2.7	0.28	0.65
3508553	0.61	0.53	<0.05	2.8	0.25	0.57
3508554	0.60	0.50	0.06	2.7	0.30	0.68
3508555	0.62	0.50	<0.05	2.7	0.22	0.67
3508556	0.56	0.48	0.06	2.7	0.40	0.71
3508557	0.48	0.49	0.13	2.5	0.45	0.84
3508558	0.53	0.53	<0.05	2.5	0.22	0.75
3508559	0.50	0.53	<0.05	2.3	0.20	0.68
3508560	1.58	0.85	0.33	19.0	0.90	5.08
3508561	0.54	0.55	0.05	2.3	0.21	0.79
3508562	0.59	0.52	0.07	2.6	0.20	0.70
3508563	0.59	0.53	0.06	2.6	0.24	0.78
*Dup 3508526	0.80	0.51	0.05	3.1	0.17	1.12
*Rep 3508528	0.76	0.60	<0.05	2.4	0.17	1.02
*Std OREAS 601	1.02	0.57	15.29	12.2	1.17	4.34
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.96	0.56	15.95	11.2	1.19	3.95
*Std OREAS 520	0.36	0.67	0.36	10.5	0.26	18.95
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508519	0.43	0.49	0.10	1.7	0.25	0.60
*Std OREAS 520	0.41	0.70	0.38	10.6	0.28	18.55
*Std OREAS 601	1.01	0.57	15.53	12.0	1.26	4.10

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508488	1.3	18.4	1.7
3508489	1.7	19.1	1.6
3508490	<0.1	2.4	0.1
3508491	2.3	17.8	1.6
3508492	1.2	18.0	1.6
3508493	1.8	18.2	1.6
3508494	1.6	22.8	2.0
3508495	1.6	23.7	2.0
3508496	1.5	23.4	2.1
3508497	1.1	18.0	1.6
3508498	1.0	18.5	1.6
3508499	1.5	18.9	1.6
3508500	4.5	27.0	2.6
3508501	1.0	17.0	1.5
3508502	2.2	17.1	1.5
3508503	2.0	15.6	1.4
3508504	1.8	16.8	1.5
3508505	3.7	18.2	1.5
3508506	2.4	16.9	1.5
3508507	2.9	19.5	1.7
3508508	2.3	18.7	1.7
3508509	1.5	22.7	2.0
3508510	<0.1	2.4	0.1
3508511	1.5	17.2	1.6
3508512	1.3	18.6	1.7
3508513	3.8	19.5	1.8
3508514	1.5	21.5	2.0
3508515	1.3	22.1	2.0
3508516	1.3	22.7	2.0
3508517	1.3	15.1	1.3
3508518	1.1	13.4	1.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508519	1.3	15.5	1.5
3508520	4.7	26.8	2.6
3508521	1.2	17.4	1.6
3508522	2.3	16.1	1.5
3508523	1.5	14.8	1.4
3508524	2.2	14.7	1.4
3508525	1.9	15.6	1.4
3508526	2.0	15.8	1.5
3508527	3.2	16.6	1.4
3508528	1.4	18.1	1.6
3508529	1.8	18.5	1.6
3508530	<0.1	2.5	0.1
3508531	0.8	14.6	1.3
3508532	1.2	13.9	1.2
3508533	1.1	14.3	1.2
3508534	1.0	14.4	1.3
3508535	1.0	14.0	1.3
3508536	0.7	13.6	1.2
3508537	1.0	17.8	1.6
3508538	2.1	16.0	1.4
3508539	1.3	16.7	1.4
3508540	5.0	25.7	2.5
3508541	1.2	16.0	1.4
3508542	1.0	15.6	1.4
3508543	1.0	16.0	1.4
3508544	1.8	14.7	1.3
3508545	1.4	16.8	1.5
3508546	1.1	16.1	1.4
3508547	1.2	16.8	1.4
3508548	1.4	16.6	1.5
3508549	1.6	16.9	1.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05218

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508550	<0.1	2.5	0.1
3508551	1.1	16.5	1.5
3508552	2.0	15.9	1.4
3508553	1.3	16.1	1.4
3508554	1.3	15.3	1.4
3508555	1.1	15.3	1.4
3508556	1.9	14.7	1.3
3508557	2.4	14.0	1.3
3508558	1.2	15.5	1.4
3508559	1.6	15.8	1.5
3508560	3.3	24.5	2.4
3508561	1.2	17.0	1.6
3508562	1.3	17.0	1.7
3508563	1.2	16.1	1.7
*Dup 3508526	2.0	15.5	1.4
*Rep 3508528	1.4	17.9	1.7
*Std OREAS 601	5.6	12.2	0.7
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.9	12.0	0.7
*Std OREAS 520	45.3	21.9	2.3
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508519	1.3	15.2	1.5
*Std OREAS 520	48.3	22.6	2.4
*Std OREAS 601	6.0	12.0	0.7

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05250

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	21-Oct-2020
Submission Number (77-152)	*BBY* MAX20_Core_16/ 329 Cores	Date Analysed	24-Oct-2020 - 04-Nov-2020
		Date Completed	04-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05250

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
71	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508564	3.20	48	9.61	1684	3.43	8
3508565	3.00	28	8.07	962	4.82	75
3508566	2.89	20	7.73	684	6.08	109
3508567	5.36	39	9.31	1611	3.79	6
3508568	4.59	75	9.85	1778	3.93	5
3508569	4.77	53	9.29	1764	2.85	5
3508570	1.39	16	0.13	22	>15.00	1
3508571	4.39	89	9.48	1629	4.05	6
3508572	5.04	88	9.43	1770	4.00	6
3508573	4.38	57	8.87	1826	4.08	7
3508574	5.01	36	9.46	1837	4.31	7
3508575	-	40	9.56	1890	4.22	6
3508576	4.31	81	9.24	2070	4.11	7
3508577	2.62	88	8.71	2134	4.39	5
3508578	3.28	126	9.11	2239	3.68	5
3508579	5.66	27	9.31	1671	4.27	13
3508580	0.15	254	8.03	1018	2.65	79
3508581	4.47	29	8.86	1581	4.08	85
3508582	4.65	80	8.80	2248	3.15	4
3508583	4.84	190	8.86	1710	3.95	4
3508584	4.89	73	9.45	1652	4.13	5
3508585	3.53	51	9.19	1993	4.15	10
3508586	3.90	151	8.76	1743	3.35	4
3508587	4.54	27	9.41	1838	3.91	6
3508588	5.17	43	9.56	1623	4.26	6
3508589	4.92	13	9.81	1353	4.90	4
3508590	1.11	<5	0.06	11	>15.00	1
3508591	5.35	42	9.32	1977	4.93	5
3508592	4.71	35	8.75	1359	5.28	5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508593	4.91	44	9.58	1437	5.08	7
3508594	4.76	52	9.45	1549	4.84	6
3508595	4.69	15	9.22	1594	4.98	8
3508596	4.87	18	9.39	1484	4.90	6
3508597	3.79	6	9.44	1261	4.00	5
3508598	3.39	101	8.26	634	3.69	3
3508599	4.70	29	7.48	625	5.32	5
3508600	0.15	229	7.86	984	2.57	68
3508601	4.58	21	8.61	421	3.49	5
3508602	4.98	8	8.63	993	3.76	4
3508603	4.82	21	9.33	1410	3.77	4
3508604	5.48	24	9.34	1360	4.22	5
3508605	3.27	<5	8.47	347	2.45	5
3508606	3.32	307	5.63	486	11.83	3
3508607	3.83	164	8.29	170	2.45	5
3508608	3.34	12	8.52	307	1.18	7
3508609	4.72	70	8.66	1023	3.25	7
3508610	1.21	<5	0.08	14	>15.00	1
3508611	4.96	69	8.31	621	5.57	5
3508612	4.86	60	8.02	338	5.43	7
3508613	4.64	12	8.90	996	6.02	10
3508614	4.39	29	7.06	726	7.03	24
3508615	-	36	7.05	691	6.83	24
3508616	2.78	15	7.48	1060	4.11	5
3508617	3.28	<5	8.70	1575	3.96	5
3508618	3.08	28	9.23	1142	6.51	14
3508619	3.56	74	7.48	814	7.89	22
3508620	0.15	222	7.83	999	2.62	74
3508621	5.17	24	8.72	819	7.38	10

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508622	5.28	18	8.60	572	8.25	10
3508623	5.50	28	8.77	541	8.36	11
3508624	5.58	49	8.56	536	8.74	6
3508625	5.35	53	8.57	463	9.01	5
3508626	5.10	30	9.07	570	8.22	4
3508627	4.77	17	8.42	596	7.40	4
3508628	5.70	16	7.39	498	8.01	5
3508629	5.09	13	7.13	340	9.43	6
3508630	1.39	6	0.07	11	>15.00	2
3508631	5.60	39	8.14	354	9.59	5
3508632	5.17	32	8.61	337	9.03	4
3508633	5.06	8	7.65	284	9.05	3
3508634	5.22	<5	7.45	325	9.30	6
3508635	5.40	14	5.16	209	10.02	12
3508636	5.38	30	7.85	205	9.45	8
3508637	5.16	31	8.34	272	9.03	6
3508638	4.82	10	8.84	879	5.69	4
3508639	5.20	10	7.88	576	7.77	4
*Dup 3508602	-	11	8.50	695	3.79	23
*Std OREAS 601	-	-	6.44	1430	1.28	39
*Rep 3508602	-	-	8.65	685	3.76	4
*Std OREAS 520	-	-	5.96	722	3.94	33
*Blk BLANK	-	-	0.02	2	0.01	<1
*Std GS-9B	-	8660	-	-	-	-
*Std SL76	-	6180	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OXG123	-	1030	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OREAS 520	-	-	5.86	1127	3.97	34

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std OREAS 601	-	-	6.55	2868	1.30	38
*Rep 3508596	-	-	9.30	1477	4.87	6
*Std OREAS 520	-	-	5.78	603	3.71	28
*Blk BLANK	-	-	0.01	2	0.01	<1
*Std OREAS 601	-	-	6.27	745	1.18	32
*Rep 3508569	-	56	-	-	-	-
*Std GS-9B	-	9470	-	-	-	-
*Std OXG123	-	1020	-	-	-	-
*Std SL76	-	6040	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508591	-	39	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508626	-	22	-	-	-	-

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508564	232	4.19	3.50	12	1.22	1068
3508565	244	6.63	3.48	28	3.17	1526
3508566	125	7.41	3.42	37	4.31	1620
3508567	252	4.15	3.41	13	1.23	957
3508568	383	4.43	3.68	10	1.17	908
3508569	234	4.26	4.03	8	1.17	637
3508570	4.0	0.22	0.04	1	2.74	180
3508571	191	4.28	3.55	7	1.40	901
3508572	264	4.43	3.57	10	1.39	975
3508573	249	4.51	3.42	10	1.40	958

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508574	211	4.44	3.55	12	1.39	961
3508575	215	4.52	3.62	12	1.43	992
3508576	464	4.29	4.12	10	1.46	971
3508577	714	4.68	4.58	10	1.45	975
3508578	880	2.57	5.10	12	1.42	897
3508579	234	5.51	4.89	28	1.93	1459
3508580	2792	4.50	3.47	37	1.54	531
3508581	195	6.60	4.94	36	3.20	1463
3508582	555	2.83	5.92	11	1.37	1105
3508583	1100	3.82	4.43	10	1.29	852
3508584	557	4.38	3.56	17	1.47	801
3508585	249	4.23	4.23	13	1.44	806
3508586	1235	4.46	4.07	13	1.44	971
3508587	258	4.59	4.18	14	1.48	993
3508588	358	4.81	3.20	16	1.68	867
3508589	223	5.11	3.02	18	1.68	962
3508590	1.3	0.18	0.01	1	2.08	165
3508591	483	5.57	3.87	17	2.01	1219
3508592	321	5.66	3.38	13	1.62	1211
3508593	309	5.92	2.50	17	2.08	1173
3508594	459	6.00	2.57	13	2.04	1217
3508595	188	5.80	2.62	13	1.90	1211
3508596	313	6.10	3.00	18	2.24	1452
3508597	464	6.90	4.50	19	2.13	1893
3508598	1433	7.46	5.83	22	1.80	1543
3508599	1421	5.96	3.82	19	1.60	2013
3508600	2710	4.21	3.45	37	1.51	515
3508601	445	5.37	4.42	15	1.44	939
3508602	291	5.20	4.46	15	1.48	1057

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508603	358	5.22	3.98	12	1.56	1061
3508604	390	5.71	3.44	15	1.86	1192
3508605	388	8.32	5.37	20	1.87	1747
3508606	376	5.32	3.81	18	1.15	3283
3508607	512	7.63	5.22	18	1.23	1010
3508608	127	5.97	6.02	27	1.23	570
3508609	223	5.84	3.50	23	2.00	1206
3508610	1.0	0.20	0.02	1	2.56	163
3508611	382	6.77	2.69	25	2.46	1499
3508612	373	7.68	2.76	23	2.44	1407
3508613	413	7.10	2.42	23	2.85	1598
3508614	732	10.47	1.49	23	4.02	1815
3508615	711	10.54	1.47	22	4.02	1817
3508616	54.6	4.19	4.59	20	1.38	1340
3508617	221	4.54	5.07	8	1.25	1425
3508618	733	7.00	2.57	21	3.13	1680
3508619	1072	8.72	1.91	25	3.90	2534
3508620	2706	4.21	3.44	36	1.55	532
3508621	761	7.99	2.03	27	3.45	2113
3508622	498	8.96	1.50	30	3.83	1709
3508623	493	8.91	1.35	29	3.70	1718
3508624	701	9.35	1.43	30	3.66	1813
3508625	778	9.74	1.28	30	3.97	1841
3508626	320	8.03	1.46	27	3.36	1547
3508627	578	9.28	1.49	29	3.46	1946
3508628	494	10.44	1.68	33	4.25	2113
3508629	282	10.48	1.37	28	4.46	1939
3508630	0.7	0.21	0.01	1	2.76	177
3508631	600	9.63	1.61	30	4.36	1747

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508632	464	9.13	1.53	28	4.01	1648
3508633	429	8.37	1.71	31	3.58	1945
3508634	245	10.26	1.45	30	4.14	2042
3508635	356	12.40	0.69	23	5.40	2107
3508636	830	10.77	0.98	27	4.05	1726
3508637	692	10.14	1.60	33	3.93	1661
3508638	312	7.07	2.74	25	2.46	1570
3508639	603	9.19	2.81	36	3.36	2459
*Dup 3508602	286	5.24	4.40	15	1.47	1060
*Std OREAS 601	992	2.42	2.22	22	0.38	467
*Rep 3508602	287	5.23	4.48	15	1.49	1056
*Std OREAS 520	2939	14.80	3.65	18	1.21	2283
*Blk BLANK	0.6	0.02	<0.01	<1	<0.01	4
*Std OREAS 520	2933	>15.00	3.68	19	1.14	2270
*Std OREAS 601	991	2.55	2.22	22	0.38	468
*Rep 3508596	307	6.05	2.97	18	2.20	1432
*Std OREAS 520	2902	>15.00	3.62	19	1.11	2329
*Blk BLANK	0.8	0.02	<0.01	<1	<0.01	4
*Std OREAS 601	963	2.46	2.18	22	0.36	475

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508564	4.15	4	0.16	0.74	775	0.36
3508565	3.11	36	0.15	0.83	424	0.60
3508566	2.37	49	0.16	0.79	413	0.69
3508567	3.94	4	0.16	0.98	772	0.35

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508568	3.69	4	0.16	0.95	909	0.36
3508569	3.67	5	0.16	1.23	619	0.32
3508570	0.06	<1	<0.01	0.02	80.5	<0.01
3508571	3.79	6	0.14	0.15	829	0.36
3508572	3.68	6	0.15	0.30	837	0.37
3508573	3.95	6	0.15	0.20	924	0.39
3508574	3.60	6	0.15	0.42	946	0.38
3508575	3.51	6	0.16	0.43	925	0.38
3508576	3.57	6	0.22	0.35	843	0.39
3508577	3.28	7	0.46	0.67	783	0.43
3508578	3.70	5	0.26	0.33	750	0.27
3508579	2.73	14	0.23	1.82	805	0.42
3508580	2.12	60	0.10	0.37	323	0.47
3508581	2.43	50	0.28	0.84	838	0.45
3508582	2.69	4	0.11	0.92	480	0.28
3508583	3.05	5	0.15	1.43	700	0.33
3508584	3.65	6	0.16	1.71	826	0.37
3508585	3.36	6	0.16	1.46	727	0.37
3508586	3.40	5	0.15	1.71	653	0.35
3508587	3.30	6	0.16	1.37	801	0.37
3508588	3.47	7	0.17	1.71	869	0.39
3508589	3.25	7	0.17	1.97	1022	0.41
3508590	0.03	<1	<0.01	0.01	80.3	<0.01
3508591	2.77	9	0.18	1.40	980	0.47
3508592	2.77	8	0.17	1.52	767	0.42
3508593	3.49	10	0.17	0.74	1034	0.51
3508594	3.41	10	0.16	0.62	902	0.52
3508595	3.36	9	0.16	0.28	880	0.52
3508596	3.18	10	0.18	0.63	851	0.56

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508597	2.70	8	0.19	2.07	586	0.52
3508598	1.29	9	0.17	3.84	271	0.37
3508599	1.90	8	0.15	2.56	298	0.37
3508600	2.14	55	0.10	0.36	320	0.47
3508601	2.47	8	0.18	2.79	335	0.39
3508602	2.48	7	0.16	1.95	414	0.39
3508603	3.15	6	0.17	0.56	612	0.45
3508604	3.26	7	0.21	0.86	693	0.51
3508605	2.16	10	0.18	3.74	170	0.44
3508606	0.87	8	0.11	3.12	374	0.25
3508607	1.43	14	0.16	>5.00	175	0.38
3508608	0.52	10	0.16	3.93	75.9	0.34
3508609	1.99	9	0.17	1.92	417	0.49
3508610	0.04	<1	<0.01	0.01	73.6	<0.01
3508611	1.57	12	0.20	0.98	475	0.52
3508612	1.36	15	0.18	3.00	539	0.51
3508613	2.06	11	0.20	1.71	632	0.66
3508614	1.52	22	0.12	1.17	530	0.79
3508615	1.52	22	0.12	1.21	513	0.79
3508616	1.70	5	0.14	1.60	348	0.32
3508617	2.94	4	0.17	0.97	462	0.39
3508618	2.35	12	0.23	0.64	898	0.64
3508619	1.81	19	0.11	1.79	615	0.76
3508620	2.12	57	0.11	0.38	318	0.47
3508621	1.91	14	0.13	1.11	803	0.65
3508622	1.47	19	0.06	0.39	662	0.71
3508623	1.54	15	0.06	0.53	787	0.64
3508624	1.39	14	0.06	0.72	720	0.68
3508625	1.25	16	0.08	0.31	712	0.71

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508626	1.78	13	0.16	0.24	803	0.59
3508627	2.15	16	0.17	1.25	752	0.74
3508628	1.53	21	0.05	1.38	509	0.74
3508629	0.99	22	0.03	0.59	516	0.73
3508630	0.04	<1	<0.01	0.01	74.6	<0.01
3508631	0.94	19	0.03	0.67	718	0.65
3508632	1.04	18	0.04	0.74	680	0.64
3508633	1.24	16	0.03	1.72	576	0.56
3508634	1.11	20	0.03	1.15	560	0.74
3508635	0.83	29	0.05	0.26	467	0.89
3508636	0.93	22	0.04	0.38	682	0.70
3508637	0.98	17	0.04	0.43	688	0.63
3508638	2.86	10	0.11	0.83	636	0.51
3508639	1.52	14	0.06	2.37	505	0.58
*Dup 3508602	2.42	12	0.17	1.92	406	0.39
*Std OREAS 601	1.51	27	0.05	1.06	229	0.18
*Rep 3508602	2.48	7	0.16	1.94	415	0.38
*Std OREAS 520	1.43	74	0.07	0.97	102	0.40
*Blk BLANK	<0.01	<1	<0.01	<0.01	1.2	<0.01
*Std OREAS 520	1.42	73	0.07	0.96	104	0.39
*Std OREAS 601	1.48	27	0.05	1.10	232	0.18
*Rep 3508596	3.14	10	0.19	0.63	848	0.55
*Std OREAS 520	1.44	73	0.07	0.94	103	0.40
*Blk BLANK	<0.01	<1	<0.01	<0.01	1.1	<0.01
*Std OREAS 601	1.51	22	0.04	1.02	228	0.17

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508564	171	52	16.7	0.22	3	1.8
3508565	314	89	49.5	0.25	3	1.7
3508566	333	79	44.2	0.08	3	1.1
3508567	163	38	16.0	0.23	3	1.5
3508568	167	37	14.3	0.36	3	1.3
3508569	170	36	11.6	0.33	4	1.4
3508570	2	3	1.3	0.02	<1	<0.1
3508571	183	42	19.4	0.13	<1	1.4
3508572	192	49	19.4	0.26	1	1.5
3508573	197	54	20.7	0.23	<1	1.4
3508574	201	49	18.7	0.20	2	1.1
3508575	202	50	17.1	0.20	<1	1.2
3508576	194	43	17.2	0.46	1	1.2
3508577	230	44	12.2	0.74	1	1.1
3508578	90	38	12.5	0.74	1	1.3
3508579	230	60	37.3	0.22	2	1.7
3508580	125	74	72.7	0.36	24	3.6
3508581	263	61	42.3	0.15	3	1.8
3508582	136	53	12.1	0.95	4	2.0
3508583	166	48	9.1	1.53	2	1.4
3508584	202	36	11.2	0.60	9	1.4
3508585	197	29	10.7	0.18	69	1.3
3508586	191	189	10.1	16.63	97	1.4
3508587	200	44	12.5	0.27	5	1.5
3508588	219	46	8.6	0.33	3	1.2
3508589	225	47	8.6	0.18	4	1.3
3508590	<2	2	0.9	<0.02	<1	<0.1
3508591	271	70	9.8	0.52	5	1.8
3508592	251	78	10.8	0.42	2	1.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508593	259	66	15.0	0.28	2	1.0
3508594	237	67	12.7	0.55	2	1.1
3508595	250	61	19.2	0.24	3	1.0
3508596	268	75	17.5	0.37	2	1.1
3508597	289	115	15.4	0.65	8	1.5
3508598	231	135	12.4	3.29	7	1.5
3508599	184	68	13.2	3.11	4	1.0
3508600	119	74	67.6	0.28	26	3.5
3508601	203	39	13.6	0.65	3	1.2
3508602	204	44	16.8	0.47	4	1.1
3508603	197	58	26.3	0.40	2	1.1
3508604	222	58	23.2	0.30	4	1.3
3508605	219	65	16.6	0.40	17	1.0
3508606	189	39	11.7	0.68	11	1.0
3508607	291	55	15.8	1.18	9	1.4
3508608	453	53	14.6	0.84	6	2.1
3508609	322	67	16.7	0.41	4	1.5
3508610	2	3	1.4	<0.02	<1	<0.1
3508611	330	82	21.4	0.72	2	1.1
3508612	336	70	17.2	0.72	3	0.8
3508613	356	84	19.1	0.49	3	0.9
3508614	523	101	31.9	0.91	2	0.7
3508615	531	99	31.2	0.82	2	0.7
3508616	149	41	38.5	0.25	5	1.0
3508617	141	119	44.3	0.72	2	1.7
3508618	355	126	27.6	1.18	3	0.8
3508619	439	183	31.6	2.32	3	0.7
3508620	121	77	68.7	0.41	23	3.1
3508621	407	172	29.5	1.14	2	0.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508622	460	122	29.3	0.54	3	0.4
3508623	458	121	29.5	0.59	2	0.4
3508624	496	131	28.0	0.78	3	0.4
3508625	537	139	26.3	0.81	2	0.3
3508626	403	114	25.5	0.42	3	0.4
3508627	523	143	25.5	0.58	2	0.7
3508628	556	149	27.4	0.38	3	0.5
3508629	575	117	27.0	0.21	3	0.3
3508630	3	3	1.2	<0.02	1	<0.1
3508631	527	119	22.4	0.49	3	0.3
3508632	514	105	22.9	0.45	3	0.2
3508633	448	104	19.0	0.47	3	0.3
3508634	593	121	24.7	0.31	3	0.4
3508635	704	143	29.3	0.80	2	0.2
3508636	542	116	27.1	0.73	4	0.3
3508637	491	118	24.7	0.66	2	0.4
3508638	284	103	32.1	0.37	3	1.0
3508639	436	151	25.6	0.64	4	0.9
*Dup 3508602	197	47	17.3	0.38	2	1.2
*Std OREAS 601	27	1260	156	52.53	281	2.4
*Rep 3508602	196	44	16.0	0.36	3	1.1
*Std OREAS 520	263	21	129	0.50	142	1.0
*Blk BLANK	<2	<1	<0.5	0.02	<1	<0.1
*Std OREAS 520	255	21	127	0.39	154	1.3
*Std OREAS 601	28	1245	158	51.98	306	2.5
*Blk BLANK	-	-	-	<0.02	<1	<0.1
*Rep 3508596	268	74	17.6	0.33	2	1.1
*Std OREAS 520	242	21	133	0.38	152	1.2
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	25	1243	157	52.89	309	2.4

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508564	0.09	0.22	27.41	13.4	<1	23.1
3508565	0.11	0.15	23.47	34.1	2	19.4
3508566	0.05	0.05	22.43	36.9	4	18.6
3508567	0.09	0.12	27.20	14.1	<1	23.2
3508568	0.11	0.14	27.37	14.9	<1	24.2
3508569	0.13	0.21	27.36	17.5	<1	23.2
3508570	<0.04	<0.02	1.19	1.9	<1	0.2
3508571	<0.04	0.17	26.88	14.9	<1	22.8
3508572	<0.04	0.19	28.32	15.8	<1	23.3
3508573	0.09	0.19	27.91	16.0	<1	23.2
3508574	0.04	0.14	25.39	15.1	<1	22.2
3508575	0.05	0.16	26.14	15.8	<1	23.3
3508576	<0.04	0.21	34.48	15.5	<1	22.2
3508577	0.05	0.25	61.46	16.3	<1	20.1
3508578	0.07	0.30	36.74	10.3	<1	19.3
3508579	0.17	0.14	29.66	25.1	2	19.5
3508580	0.70	0.26	77.39	16.8	13	18.9
3508581	0.09	0.09	26.57	33.9	4	19.1
3508582	0.22	0.39	18.99	11.8	1	21.7
3508583	0.13	0.51	23.17	14.2	<1	21.3
3508584	0.12	0.23	26.66	17.3	<1	22.7
3508585	0.10	0.08	25.40	13.7	<1	22.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508586	1.33	3.43	25.47	16.4	<1	22.7
3508587	0.11	0.13	26.48	14.7	<1	22.7
3508588	0.12	0.15	25.84	20.5	<1	23.7
3508589	0.15	0.13	24.79	19.6	<1	23.5
3508590	<0.04	<0.02	1.02	1.7	<1	<0.1
3508591	0.21	0.26	25.37	23.0	2	23.2
3508592	0.41	0.87	24.17	26.5	1	23.0
3508593	0.07	0.16	24.46	24.0	<1	24.4
3508594	0.07	0.23	26.59	24.3	<1	24.2
3508595	<0.04	0.16	26.56	22.5	<1	23.3
3508596	0.10	0.20	25.93	25.4	2	23.8
3508597	0.22	0.62	24.51	27.1	3	23.7
3508598	0.91	2.24	22.01	35.1	2	21.0
3508599	0.99	0.51	31.14	38.4	2	16.7
3508600	0.65	0.24	72.85	16.9	14	17.8
3508601	0.29	0.27	27.54	33.7	1	19.7
3508602	0.24	0.28	28.70	29.4	1	18.9
3508603	0.10	0.20	31.13	22.6	1	19.6
3508604	0.08	0.17	32.48	25.1	1	20.8
3508605	0.35	0.31	18.31	38.3	5	20.2
3508606	0.31	0.29	42.17	33.2	1	13.2
3508607	0.65	0.26	20.39	57.3	2	20.1
3508608	1.50	0.41	15.55	34.6	3	24.3
3508609	0.19	0.18	25.94	26.8	2	21.4
3508610	<0.04	<0.02	1.16	1.3	<1	0.5
3508611	0.14	0.30	25.61	31.7	2	20.3
3508612	0.40	0.41	21.12	54.1	2	19.6
3508613	0.23	0.21	21.70	33.3	2	19.9
3508614	0.15	0.33	18.42	46.1	<1	19.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508615	0.15	0.36	17.47	46.6	<1	20.1
3508616	0.23	0.19	26.06	20.3	2	15.3
3508617	0.71	1.37	31.98	17.9	2	17.1
3508618	0.09	0.50	22.87	35.7	2	20.6
3508619	0.31	1.46	17.22	40.6	1	19.2
3508620	0.64	0.26	73.56	16.7	14	17.1
3508621	0.13	0.89	15.63	36.0	1	18.8
3508622	<0.04	0.37	12.34	42.7	<1	20.0
3508623	0.04	0.37	12.04	42.9	<1	20.1
3508624	0.05	0.37	11.73	45.2	<1	19.2
3508625	<0.04	0.34	11.46	45.6	<1	19.7
3508626	<0.04	0.23	16.96	39.3	<1	19.5
3508627	0.08	0.37	18.27	49.2	1	19.7
3508628	0.09	0.30	11.88	45.6	1	19.4
3508629	0.05	0.19	9.51	47.4	<1	18.7
3508630	<0.04	<0.02	1.13	1.4	<1	0.4
3508631	0.10	0.41	8.87	49.6	1	19.3
3508632	0.08	0.35	8.98	47.3	1	18.5
3508633	0.29	0.33	7.99	43.7	1	17.1
3508634	0.54	0.40	8.80	50.3	1	19.1
3508635	1.41	0.41	10.20	60.7	<1	18.7
3508636	0.04	0.42	8.06	52.3	<1	21.6
3508637	0.05	0.39	7.68	52.7	1	21.1
3508638	0.16	0.52	20.02	31.5	1	19.7
3508639	0.75	0.97	11.49	47.9	3	20.8
*Dup 3508602	0.24	0.29	27.53	29.8	2	19.6
*Std OREAS 601	19.51	8.54	63.24	5.6	8	19.4
*Rep 3508602	0.24	0.26	28.88	29.9	2	19.1
*Std OREAS 520	2.87	0.06	90.30	192	<1	18.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.04	<0.02	<0.05	0.1	<1	<0.1
*Std OREAS 520	2.98	0.09	90.45	221	<1	19.6
*Std OREAS 601	20.67	7.89	65.55	5.8	7	21.4
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Rep 3508596	0.10	0.20	26.01	25.1	2	24.3
*Std OREAS 520	2.89	0.15	82.18	214	<1	19.5
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	20.01	8.48	60.82	5.7	7	21.9

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508564	0.78	0.06	13.7	0.26	7.18	12.2
3508565	1.40	0.07	10.5	0.26	6.79	8.2
3508566	1.61	0.06	9.7	0.27	10.91	6.9
3508567	0.72	0.05	13.6	0.26	9.71	11.7
3508568	0.68	0.06	13.7	0.27	4.54	11.6
3508569	0.60	0.04	13.6	0.25	3.41	9.4
3508570	0.04	<0.02	1.3	0.03	0.11	0.2
3508571	0.89	0.04	13.7	0.27	1.48	11.5
3508572	0.88	0.05	14.5	0.26	2.92	12.9
3508573	1.00	0.04	14.1	0.26	13.25	11.5
3508574	0.79	0.05	12.4	0.23	5.96	10.0
3508575	0.85	0.05	12.6	0.25	6.10	10.3
3508576	0.84	0.06	16.7	0.30	4.51	12.2
3508577	0.64	0.06	28.6	0.38	4.40	11.2
3508578	0.57	0.05	17.2	0.28	13.51	9.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508579	1.14	0.04	14.5	0.21	8.69	9.0
3508580	2.35	0.07	36.6	0.39	106	20.4
3508581	1.10	0.04	12.9	0.25	5.35	6.0
3508582	0.59	0.06	9.1	0.21	13.64	11.7
3508583	0.45	0.14	11.3	0.23	6.42	10.0
3508584	0.52	0.08	12.9	0.25	5.15	10.4
3508585	0.55	0.07	12.3	0.27	5.06	10.1
3508586	0.49	0.07	12.6	0.24	5.92	9.2
3508587	0.60	0.06	13.3	0.25	9.77	11.7
3508588	0.45	0.08	13.1	0.23	6.99	9.2
3508589	0.45	0.06	12.4	0.21	10.32	8.2
3508590	0.03	<0.02	1.2	0.03	0.15	0.1
3508591	0.55	0.06	12.7	0.23	21.10	8.3
3508592	0.54	0.06	11.9	0.20	149	7.1
3508593	0.73	0.06	12.2	0.22	8.89	8.2
3508594	0.67	0.06	13.5	0.24	5.51	8.8
3508595	0.92	0.05	13.4	0.25	3.58	8.2
3508596	0.79	0.05	13.1	0.23	22.74	8.7
3508597	0.62	0.05	12.2	0.21	29.45	8.5
3508598	0.51	0.07	11.1	0.20	19.08	5.9
3508599	0.55	0.08	16.7	0.30	80.30	6.5
3508600	2.39	0.08	35.0	0.39	101	20.0
3508601	0.61	0.08	13.8	0.24	18.09	8.3
3508602	0.71	0.07	14.3	0.25	28.71	9.5
3508603	1.07	0.06	15.6	0.28	3.63	11.6
3508604	0.99	0.07	16.5	0.30	9.57	13.2
3508605	0.63	0.04	8.1	0.23	37.09	9.3
3508606	0.47	0.12	21.2	0.46	49.00	4.9
3508607	0.59	0.05	8.4	0.18	87.41	7.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508608	0.55	0.06	7.1	0.16	260	7.0
3508609	0.72	0.05	12.8	0.20	4.99	6.9
3508610	0.04	<0.02	1.4	0.02	0.10	0.1
3508611	0.84	0.08	12.5	0.21	17.05	6.7
3508612	0.72	0.07	10.1	0.18	91.19	5.1
3508613	0.86	0.07	10.6	0.19	28.72	6.3
3508614	1.47	0.12	8.2	0.27	29.58	6.7
3508615	1.51	0.12	7.9	0.27	32.44	6.7
3508616	1.04	0.05	12.7	0.22	17.28	6.9
3508617	1.27	0.06	15.7	0.28	221	9.1
3508618	1.11	0.08	11.3	0.21	4.97	6.1
3508619	1.47	0.11	7.8	0.26	3.48	6.3
3508620	2.35	0.08	36.8	0.38	101	19.2
3508621	1.11	0.09	7.8	0.19	41.35	5.5
3508622	1.30	0.08	5.6	0.20	3.77	4.7
3508623	1.23	0.09	5.4	0.19	10.01	4.5
3508624	1.14	0.08	5.3	0.19	5.63	3.6
3508625	1.14	0.08	5.0	0.20	3.78	2.9
3508626	1.10	0.08	7.9	0.21	8.71	4.2
3508627	1.11	0.10	8.4	0.23	18.97	5.4
3508628	1.26	0.11	4.9	0.24	9.53	3.5
3508629	1.27	0.10	3.7	0.22	3.97	2.4
3508630	0.03	<0.02	1.3	0.02	<0.05	<0.1
3508631	1.11	0.09	3.6	0.20	9.78	2.0
3508632	1.05	0.08	3.7	0.18	10.48	2.0
3508633	0.84	0.07	3.3	0.16	15.97	1.6
3508634	1.11	0.09	3.5	0.19	17.62	1.9
3508635	1.48	0.11	3.8	0.24	7.46	2.0
3508636	1.21	0.08	3.3	0.19	6.89	1.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508637	1.04	0.07	3.3	0.18	9.17	2.1
3508638	1.22	0.06	9.5	0.24	16.68	6.4
3508639	1.09	0.07	5.2	0.20	23.74	3.0
*Dup 3508602	0.71	0.08	14.1	0.23	28.32	10.0
*Std OREAS 601	4.71	1.93	32.1	0.11	3.96	13.3
*Rep 3508602	0.69	0.07	14.3	0.24	28.79	9.6
*Std OREAS 520	3.78	0.14	88.3	0.38	67.84	5.3
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	0.06	<0.1
*Std OREAS 520	3.78	0.13	88.7	0.39	70.83	5.6
*Std OREAS 601	4.50	1.73	32.0	0.11	4.12	13.8
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508596	0.79	0.05	13.1	0.23	23.46	8.8
*Std OREAS 520	3.79	0.12	84.3	0.37	70.10	5.1
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.58	1.86	30.6	0.11	4.10	13.8

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508564	6.1	55.2	7.7	<2	1.26	0.7
3508565	6.2	90.6	29.4	<2	1.23	1.0
3508566	3.5	119	37.0	<2	1.25	0.9
3508567	4.1	55.3	7.2	<2	1.27	0.9
3508568	3.7	49.5	6.8	<2	1.18	0.8
3508569	7.9	70.0	8.2	<2	1.41	0.8
3508570	0.8	0.7	<0.5	<2	0.05	<0.3
3508571	3.8	53.5	8.6	<2	0.58	0.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508572	4.6	59.4	9.1	<2	0.67	0.6
3508573	6.5	55.1	9.6	<2	0.65	0.5
3508574	5.1	53.1	8.8	<2	1.05	0.6
3508575	4.8	55.5	9.2	<2	1.02	0.6
3508576	3.5	58.0	9.1	<2	1.10	0.5
3508577	3.1	59.4	8.6	<2	0.91	0.6
3508578	5.5	68.7	8.1	<2	0.78	0.4
3508579	8.4	108	12.0	<2	0.73	0.8
3508580	21.6	205	13.3	2	2.33	3.5
3508581	6.7	146	15.6	<2	1.16	0.8
3508582	12.7	98.3	8.0	<2	1.46	0.7
3508583	9.7	65.7	8.6	<2	1.37	0.6
3508584	4.8	49.7	9.3	<2	1.33	1.1
3508585	3.6	57.3	9.2	<2	2.02	0.7
3508586	453	63.6	8.8	6	5.36	0.9
3508587	5.1	66.0	9.3	<2	2.34	0.8
3508588	6.6	60.3	10.3	2	1.15	1.1
3508589	9.3	57.9	10.0	2	1.09	0.9
3508590	0.6	0.3	<0.5	<2	0.08	<0.3
3508591	8.2	87.5	12.9	<2	1.15	0.8
3508592	28.4	83.1	12.3	<2	1.37	0.9
3508593	4.7	52.8	14.3	<2	0.76	0.8
3508594	8.9	52.9	14.8	<2	1.09	0.9
3508595	7.2	54.8	15.0	<2	1.22	0.8
3508596	8.8	73.4	16.2	<2	0.76	0.9
3508597	12.3	108	15.1	<2	0.70	1.1
3508598	141	123	12.6	2	1.33	1.1
3508599	58.8	89.7	13.8	3	1.35	1.2
3508600	23.2	190	16.7	2	2.33	3.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508601	13.1	94.5	14.8	4	2.45	1.4
3508602	12.1	89.9	14.6	3	1.79	1.1
3508603	10.0	78.8	14.3	<2	0.77	0.9
3508604	5.6	72.8	16.7	<2	0.62	1.1
3508605	10.8	141	15.6	3	0.84	1.8
3508606	14.1	83.9	14.3	3	1.20	0.9
3508607	18.9	130	14.2	4	1.86	1.2
3508608	62.0	193	17.3	4	2.35	1.3
3508609	13.8	100	19.6	2	1.30	0.8
3508610	0.8	0.5	<0.5	<2	0.07	<0.3
3508611	10.9	99.2	20.6	<2	1.80	0.9
3508612	10.9	100	18.4	3	1.47	0.9
3508613	14.1	78.2	21.4	2	1.73	1.0
3508614	8.1	42.9	38.3	2	1.48	1.2
3508615	8.1	44.4	37.0	<2	1.53	1.3
3508616	8.6	104	11.4	<2	1.13	0.9
3508617	68.1	104	14.2	<2	0.82	1.0
3508618	8.8	79.8	24.0	<2	0.90	0.9
3508619	29.8	56.2	33.1	<2	1.63	1.1
3508620	24.4	187	15.0	2	2.42	3.6
3508621	11.6	55.8	25.0	<2	1.05	1.0
3508622	4.3	42.4	32.3	<2	1.58	0.9
3508623	3.7	38.7	31.1	<2	1.45	0.9
3508624	3.3	41.7	31.6	<2	1.13	0.8
3508625	2.9	38.4	32.4	<2	1.15	0.8
3508626	3.2	43.6	29.0	<2	1.08	0.9
3508627	5.9	47.0	29.8	2	1.36	1.1
3508628	8.6	53.5	40.4	2	1.23	1.1
3508629	4.9	40.0	42.8	<2	1.15	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508630	0.7	0.4	<0.5	<2	0.07	<0.3
3508631	5.6	46.3	38.3	<2	1.91	0.9
3508632	5.1	43.5	38.8	<2	2.01	0.8
3508633	22.7	49.0	31.6	<2	2.54	0.7
3508634	46.6	44.5	40.1	2	1.84	0.9
3508635	78.9	20.7	55.7	<2	1.36	1.0
3508636	3.1	29.6	43.6	<2	0.93	0.9
3508637	2.8	50.3	38.0	<2	0.77	0.8
3508638	10.3	62.4	23.9	<2	0.74	1.0
3508639	52.0	93.1	33.4	2	1.32	0.8
*Dup 3508602	12.0	91.3	15.0	3	2.01	1.2
*Std OREAS 601	312	89.3	5.8	11	32.30	4.3
*Rep 3508602	12.0	88.8	14.7	3	1.78	1.1
*Std OREAS 520	6.8	113	17.8	<2	3.39	4.9
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.4	117	17.5	<2	3.41	4.9
*Std OREAS 601	319	96.5	5.0	12	30.70	4.2
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508596	8.3	75.4	16.4	<2	0.75	0.9
*Std OREAS 520	5.7	114	17.9	<2	3.13	4.8
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	309	102	5.7	12	32.34	4.4

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508564	0.68	0.52	0.05	3.0	0.22	1.18

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508565	0.47	0.67	<0.05	1.6	0.40	1.44
3508566	0.41	0.68	0.06	1.3	0.58	0.76
3508567	0.66	0.51	0.07	3.0	0.22	0.92
3508568	0.69	0.53	0.09	3.0	0.21	0.78
3508569	0.59	0.48	0.09	3.0	0.31	0.57
3508570	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508571	0.66	0.50	<0.05	3.4	0.22	0.91
3508572	0.76	0.52	<0.05	3.7	0.21	1.04
3508573	0.69	0.51	<0.05	3.6	0.17	0.68
3508574	0.62	0.46	<0.05	2.8	0.18	0.46
3508575	0.62	0.50	<0.05	2.9	0.21	0.47
3508576	0.76	0.61	0.05	4.7	0.20	0.54
3508577	0.73	0.98	<0.05	11.7	0.21	0.92
3508578	0.79	0.63	<0.05	5.8	0.23	0.58
3508579	0.47	0.52	0.09	3.0	0.40	1.51
3508580	1.44	0.89	0.25	20.9	1.02	5.34
3508581	0.35	0.57	0.07	2.3	0.62	1.32
3508582	0.83	0.39	0.08	3.0	0.42	0.76
3508583	0.66	0.47	0.14	2.4	0.34	0.37
3508584	0.62	0.51	0.13	3.0	0.25	0.46
3508585	0.69	0.51	0.11	2.9	0.27	0.41
3508586	0.60	0.49	0.52	2.9	0.29	0.50
3508587	0.68	0.50	0.06	3.6	0.32	0.92
3508588	0.47	0.50	0.08	2.3	0.28	0.68
3508589	0.42	0.48	0.14	2.0	0.28	0.77
3508590	<0.05	<0.05	<0.05	<0.2	<0.02	0.31
3508591	0.44	0.50	0.08	2.1	0.41	0.92
3508592	0.37	0.46	0.09	2.0	0.37	1.22
3508593	0.41	0.49	0.07	1.8	0.20	0.62

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508594	0.48	0.52	<0.05	2.0	0.20	0.68
3508595	0.43	0.51	0.05	1.7	0.20	0.54
3508596	0.48	0.53	0.08	2.0	0.29	0.74
3508597	0.43	0.50	0.09	2.1	0.45	0.87
3508598	0.31	0.46	0.15	1.6	0.52	0.66
3508599	0.36	0.84	0.13	1.1	0.37	0.59
3508600	1.48	0.91	0.21	18.4	0.99	5.02
3508601	0.50	0.61	0.10	1.8	0.39	0.61
3508602	0.55	0.63	0.06	1.5	0.37	0.59
3508603	0.65	0.64	<0.05	1.7	0.23	0.58
3508604	0.76	0.73	<0.05	2.2	0.22	0.66
3508605	0.51	0.62	0.14	1.4	0.68	0.58
3508606	0.25	1.77	0.07	0.9	0.35	0.58
3508607	0.41	0.50	0.14	1.1	0.61	0.67
3508608	0.39	0.44	0.26	1.1	0.92	0.60
3508609	0.38	0.58	0.09	1.0	0.43	0.45
3508610	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508611	0.34	0.61	0.06	1.2	0.39	0.39
3508612	0.25	0.52	0.09	0.9	0.39	0.37
3508613	0.33	0.55	0.06	1.0	0.30	0.37
3508614	0.33	0.68	0.07	1.0	0.14	0.28
3508615	0.34	0.68	0.07	1.0	0.14	0.28
3508616	0.41	0.56	0.06	1.9	0.42	0.90
3508617	0.54	0.71	0.06	2.4	0.39	1.33
3508618	0.30	0.60	<0.05	0.9	0.28	0.42
3508619	0.33	0.63	0.39	0.9	0.20	0.33
3508620	1.44	0.89	0.25	19.0	0.98	4.92
3508621	0.30	0.50	0.12	0.7	0.19	0.45
3508622	0.26	0.52	0.06	0.6	0.14	0.22

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508623	0.24	0.49	<0.05	0.7	0.13	0.26
3508624	0.22	0.52	0.07	0.7	0.15	0.28
3508625	0.17	0.52	0.06	0.5	0.14	0.24
3508626	0.22	0.58	<0.05	0.8	0.15	0.31
3508627	0.27	0.61	0.05	0.9	0.16	0.46
3508628	0.19	0.60	0.06	0.5	0.21	0.26
3508629	0.14	0.57	0.06	0.4	0.16	0.21
3508630	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508631	0.11	0.51	<0.05	0.3	0.19	0.15
3508632	0.12	0.48	<0.05	0.4	0.17	0.17
3508633	0.10	0.43	0.07	0.4	0.22	0.20
3508634	0.11	0.50	<0.05	0.4	0.16	0.22
3508635	0.11	0.66	0.07	0.4	0.08	0.19
3508636	0.16	0.48	0.09	0.4	0.10	0.17
3508637	0.15	0.41	0.06	0.4	0.18	0.19
3508638	0.39	0.59	0.05	1.6	0.22	0.89
3508639	0.19	0.49	0.07	0.7	0.38	0.45
*Dup 3508602	0.55	0.61	0.06	1.5	0.35	0.59
*Std OREAS 601	1.08	0.61	16.31	10.3	1.22	3.59
*Rep 3508602	0.54	0.62	0.06	1.5	0.36	0.59
*Std OREAS 520	0.37	0.75	0.35	9.5	0.26	17.57
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.41	0.70	0.38	10.6	0.28	18.55
*Std OREAS 601	1.01	0.57	15.53	12.0	1.26	4.10
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508596	0.47	0.53	<0.05	2.0	0.29	0.69
*Std OREAS 520	0.36	0.69	0.35	9.5	0.24	17.16
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.99	0.59	16.20	11.2	1.15	3.92

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508564	1.2	17.1	1.7
3508565	1.4	21.0	1.9
3508566	1.3	20.4	1.9
3508567	1.1	17.0	1.6
3508568	1.2	16.5	1.7
3508569	1.2	15.5	1.5
3508570	<0.1	2.3	0.1
3508571	0.5	16.0	1.6
3508572	0.9	16.2	1.6
3508573	0.5	16.2	1.6
3508574	0.8	15.0	1.5
3508575	0.8	15.8	1.5
3508576	0.8	18.8	1.8
3508577	1.1	28.6	2.5
3508578	0.8	19.5	1.8
3508579	3.5	15.9	1.5
3508580	4.9	26.6	2.6
3508581	2.6	17.9	1.6
3508582	1.4	12.7	1.3
3508583	1.4	14.6	1.5
3508584	1.4	15.7	1.6
3508585	1.1	16.1	1.6
3508586	2.6	15.3	1.5
3508587	1.2	15.7	1.5
3508588	1.0	15.3	1.4
3508589	1.3	13.6	1.3
3508590	<0.1	2.2	0.1
3508591	1.1	14.6	1.5
3508592	1.2	14.1	1.3
3508593	0.7	15.3	1.4
3508594	1.0	15.7	1.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508595	0.8	15.8	1.5
3508596	1.2	15.9	1.5
3508597	3.0	15.1	1.4
3508598	4.9	13.3	1.3
3508599	5.0	22.7	2.1
3508600	4.8	26.8	2.6
3508601	2.2	17.6	1.7
3508602	1.9	17.5	1.7
3508603	0.8	18.9	1.8
3508604	1.2	21.5	2.0
3508605	5.6	16.8	1.6
3508606	6.7	40.9	3.3
3508607	8.4	14.5	1.3
3508608	5.9	12.2	1.1
3508609	6.7	15.6	1.4
3508610	<0.1	2.4	0.1
3508611	3.6	16.8	1.5
3508612	3.2	14.9	1.3
3508613	2.3	15.4	1.3
3508614	2.2	19.1	1.8
3508615	2.4	19.4	1.8
3508616	2.1	16.7	1.5
3508617	2.2	21.1	1.9
3508618	0.8	16.3	1.4
3508619	1.4	17.6	1.7
3508620	4.1	26.0	2.6
3508621	0.8	14.2	1.3
3508622	0.6	15.0	1.4
3508623	0.8	14.7	1.3
3508624	0.9	13.8	1.3
3508625	0.6	14.7	1.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05250

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508626	0.6	16.7	1.4
3508627	1.9	18.0	1.5
3508628	1.6	16.2	1.6
3508629	0.7	16.4	1.5
3508630	<0.1	2.3	0.1
3508631	0.8	14.4	1.3
3508632	0.7	13.8	1.2
3508633	2.0	11.5	1.1
3508634	1.1	14.6	1.3
3508635	0.4	18.1	1.6
3508636	0.5	14.2	1.3
3508637	0.6	12.5	1.2
3508638	1.7	18.4	1.7
3508639	1.8	14.7	1.4
*Dup 3508602	2.0	18.2	1.6
*Std OREAS 601	6.0	11.9	0.7
*Rep 3508602	1.8	17.9	1.7
*Std OREAS 520	46.0	22.6	2.4
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	48.3	22.6	2.4
*Std OREAS 601	6.0	12.0	0.7
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508596	1.3	16.0	1.5
*Std OREAS 520	44.7	21.8	2.2
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.7	12.5	0.7

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05251

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	21-Oct-2020
Submission Number (153-228)	*BBY* MAX20_Core_16/ 329 Cores	Date Analysed	24-Oct-2020 - 05-Nov-2020
		Date Completed	05-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05251

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508640	0.13	295	8.63	1264	2.66	18
3508641	5.30	21	7.57	275	9.11	14
3508642	5.47	28	7.82	406	8.42	5
3508643	5.41	37	8.98	342	8.89	6
3508644	5.19	28	7.55	295	8.73	15
3508645	5.74	32	7.18	241	9.17	26
3508646	5.36	65	7.18	279	9.49	29
3508647	5.22	32	7.31	349	8.63	39
3508648	5.39	38	7.85	579	8.22	35
3508649	5.14	35	8.07	798	7.76	29
3508650	1.18	8	0.12	13	>15.00	<1
3508651	5.57	60	7.66	788	8.10	37
3508652	5.39	80	6.95	831	8.31	29
3508653	4.94	81	7.08	820	7.64	25
3508654	5.28	50	8.10	679	8.05	30
3508655	-	49	8.16	706	7.96	26
3508656	5.22	64	8.94	987	6.67	31
3508657	4.02	43	8.00	674	7.75	33
3508658	3.74	55	8.19	887	7.11	28
3508659	4.54	6	8.37	971	5.24	18
3508660	0.15	234	7.77	941	2.45	69
3508661	5.91	<5	8.48	627	4.22	15
3508662	5.94	13	7.74	572	7.10	38
3508663	5.48	19	8.34	1221	5.68	22
3508664	4.80	9	8.60	1339	5.18	17
3508665	6.17	<5	8.88	1585	3.57	9
3508666	4.96	<5	8.78	567	3.53	7
3508667	3.23	<5	8.93	1402	3.35	8
3508668	3.76	<5	8.85	1588	3.23	9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508669	5.15	22	8.32	1063	6.27	23
3508670	1.37	<5	0.06	10	>15.00	<1
3508671	5.22	18	8.36	890	6.61	22
3508672	5.66	20	8.24	1203	6.44	24
3508673	5.16	20	8.41	1482	6.90	30
3508674	4.91	9	8.40	1174	6.86	25
3508675	5.18	23	8.32	1339	6.88	29
3508676	5.06	18	7.99	1080	6.47	32
3508677	5.33	47	8.20	1275	6.58	42
3508678	5.26	52	8.18	1554	6.52	38
3508679	5.43	54	8.28	1172	6.62	36
3508680	0.15	234	7.73	997	2.57	68
3508681	5.06	35	8.31	1329	6.14	34
3508682	4.72	28	7.96	1397	7.01	29
3508683	5.52	26	7.93	964	7.25	42
3508684	5.13	73	7.43	1063	7.72	47
3508685	5.12	26	7.51	994	7.75	33
3508686	5.73	37	7.60	687	8.07	21
3508687	5.18	64	7.73	713	8.50	20
3508688	5.25	43	8.04	845	6.96	22
3508689	5.02	29	8.37	1394	6.25	12
3508690	1.38	6	0.14	20	>15.00	5
3508691	5.17	19	8.15	1004	7.26	20
3508692	4.79	31	7.97	964	7.40	17
3508693	5.44	44	7.64	902	7.82	18
3508694	4.83	66	8.43	1064	6.98	17
3508695	-	61	8.48	1123	7.17	14
3508696	5.03	40	8.11	1349	6.20	11
3508697	5.25	29	7.75	1042	7.18	13

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508698	4.94	97	8.37	1311	6.51	15
3508699	5.02	41	8.52	1242	6.48	14
3508700	0.15	229	7.88	1009	2.59	66
3508701	4.92	56	8.27	924	6.64	15
3508702	5.37	32	8.39	986	6.46	16
3508703	5.38	30	8.62	1209	5.65	13
3508704	4.55	35	8.50	1110	6.20	13
3508705	3.78	70	8.52	1268	6.10	14
3508706	4.12	128	8.01	1002	7.27	22
3508707	5.21	24	8.08	1097	7.50	45
3508708	5.30	28	7.97	1377	6.82	39
3508709	5.23	74	7.90	1044	7.48	43
3508710	1.24	<5	0.08	13	>15.00	2
3508711	5.36	55	8.06	888	7.72	53
3508712	5.28	30	8.26	1018	7.58	38
3508713	5.98	15	7.89	743	7.39	50
3508714	5.77	16	7.99	782	7.40	52
3508715	3.46	16	8.16	795	7.29	44
*Dup 3508678	-	57	8.20	1543	6.46	38
*Std OREAS 601	-	-	6.19	755	1.24	29
*Blk BLANK	-	-	0.01	2	<0.01	<1
*Rep 3508681	-	-	8.39	1313	6.19	40
*Std OREAS 520	-	-	5.90	820	3.95	29
*Std OREAS 520	-	-	5.78	603	3.71	28
*Blk BLANK	-	-	0.01	2	0.01	<1
*Rep 3508656	-	-	8.88	973	6.57	30
*Std OREAS 601	-	-	6.27	745	1.18	32
*Std OREAS 520	-	-	6.14	718	3.94	34
*Std OREAS 601	-	-	6.50	741	1.20	32

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Blk BLANK	-	-	<0.01	1	0.01	<1
*Std GS-9B	-	8660	-	-	-	-
*Std SL76	-	6180	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508660	-	234	-	-	-	-
*Std OXG123	-	1030	-	-	-	-
*Rep 3508665	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508701	-	57	-	-	-	-
*Rep 3508710	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std SL76	-	6300	-	-	-	-
*Std OXG123	-	980	-	-	-	-
*Std GS-9B	-	9380	-	-	-	-

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508640	2247	5.66	4.93	14	1.18	618
3508641	525	11.07	1.42	33	4.45	1899
3508642	780	9.16	2.00	27	3.51	2017
3508643	706	9.53	1.33	33	4.07	1712
3508644	590	11.72	1.19	29	4.18	2069
3508645	512	11.85	0.96	25	4.32	2091
3508646	1324	11.56	1.03	24	4.57	2298
3508647	623	10.42	0.97	21	4.20	2022

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508648	790	10.30	1.09	20	3.92	1915
3508649	652	9.53	1.10	20	3.60	1792
3508650	3.0	0.20	0.02	1	2.17	171
3508651	672	10.02	1.15	23	3.95	1923
3508652	1171	9.89	1.49	33	4.08	2337
3508653	1121	9.35	1.33	23	3.54	1837
3508654	1094	9.98	1.33	18	3.70	2077
3508655	1181	9.68	1.36	18	3.53	2029
3508656	1234	7.62	1.80	20	2.86	1965
3508657	782	8.76	1.41	17	3.52	1965
3508658	933	8.64	1.60	21	3.09	1971
3508659	267	6.73	2.11	12	2.34	1627
3508660	2710	4.34	3.45	37	1.46	542
3508661	212	5.73	3.79	12	1.93	1579
3508662	574	8.63	1.70	22	3.59	2873
3508663	424	7.42	2.75	17	2.63	1901
3508664	272	6.82	2.63	18	2.46	1755
3508665	105	4.95	4.01	9	1.47	711
3508666	112	4.89	4.19	9	1.31	881
3508667	98.0	4.35	4.28	7	1.28	836
3508668	151	4.68	3.60	11	1.44	934
3508669	539	7.83	2.22	20	2.78	1749
3508670	<0.5	0.13	0.01	1	2.17	132
3508671	524	8.00	1.90	24	3.04	1743
3508672	395	8.18	1.88	30	3.24	1817
3508673	368	8.23	2.23	25	3.25	1705
3508674	418	7.86	2.48	30	3.19	1859
3508675	379	7.82	2.52	24	3.14	1708
3508676	579	7.24	3.03	26	3.09	2096

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508677	542	7.68	2.41	20	3.20	1577
3508678	422	7.36	2.51	18	3.08	1581
3508679	558	7.78	2.31	22	3.18	1739
3508680	2665	4.35	3.41	36	1.53	533
3508681	375	7.28	2.65	20	2.97	1572
3508682	628	8.10	1.97	24	3.38	2099
3508683	385	8.42	1.73	24	3.66	1955
3508684	861	8.74	1.48	23	3.89	1982
3508685	504	9.16	1.81	26	3.90	2083
3508686	584	9.13	1.25	23	3.88	2056
3508687	618	9.38	1.27	24	3.92	2071
3508688	539	8.72	1.66	23	3.73	1786
3508689	325	7.72	2.50	21	2.93	1618
3508690	0.5	0.23	0.03	2	2.47	148
3508691	448	8.29	1.67	26	3.21	1881
3508692	495	8.71	1.61	23	3.57	1803
3508693	702	9.10	1.45	23	3.85	1827
3508694	592	8.28	1.52	22	3.38	1738
3508695	579	8.29	1.54	22	3.40	1755
3508696	658	8.21	2.20	22	3.15	1824
3508697	406	8.79	1.85	22	3.50	1898
3508698	597	7.71	2.37	18	2.98	1580
3508699	439	7.67	2.15	17	2.91	1519
3508700	2723	4.40	3.47	36	1.54	535
3508701	626	7.95	1.93	19	3.08	1685
3508702	515	7.91	1.89	23	3.15	1781
3508703	303	8.06	2.74	21	2.92	1710
3508704	406	7.63	2.15	16	2.82	1601
3508705	458	7.69	2.22	13	2.85	1469

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508706	587	9.39	1.53	17	3.64	1652
3508707	277	8.27	1.62	20	3.64	1749
3508708	320	8.21	2.17	22	3.39	2021
3508709	524	8.30	1.67	19	3.81	1618
3508710	1.8	0.18	0.01	<1	2.26	180
3508711	492	8.51	1.60	20	3.74	1652
3508712	445	9.28	1.76	20	3.70	1668
3508713	478	8.75	1.64	22	3.78	1900
3508714	413	8.66	1.75	26	3.58	1924
3508715	907	8.32	1.51	27	3.40	2265
*Dup 3508678	412	7.40	2.53	18	3.05	1572
*Std OREAS 601	965	2.49	2.15	21	0.38	464
*Blk BLANK	0.8	0.01	<0.01	<1	<0.01	3
*Rep 3508681	372	7.34	2.68	19	3.00	1598
*Std OREAS 520	2940	>15.00	3.69	19	1.20	2349
*Std OREAS 520	2902	>15.00	3.62	19	1.11	2329
*Blk BLANK	0.8	0.02	<0.01	<1	<0.01	4
*Rep 3508656	1237	7.55	1.78	19	2.84	1963
*Std OREAS 601	963	2.46	2.18	22	0.36	475
*Std OREAS 520	3159	>15.00	3.81	21	1.19	2340
*Std OREAS 601	1008	2.42	2.14	23	0.37	468
*Blk BLANK	0.6	0.02	<0.01	<1	<0.01	3

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508640	3.22	12	0.11	0.28	521	0.31

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508641	0.88	23	0.09	0.43	707	0.73
3508642	1.31	15	0.08	0.85	794	0.56
3508643	1.03	17	0.06	0.29	904	0.61
3508644	1.04	21	0.11	0.33	757	0.78
3508645	0.91	25	0.10	0.22	751	0.74
3508646	0.91	27	0.11	0.36	714	0.71
3508647	1.48	26	0.13	0.31	728	0.61
3508648	1.79	23	0.16	0.28	811	0.58
3508649	1.98	21	0.16	0.25	809	0.58
3508650	0.07	<1	<0.01	0.01	79.8	<0.01
3508651	1.51	23	0.17	0.24	775	0.62
3508652	0.98	23	0.16	0.51	590	0.58
3508653	1.61	21	0.17	0.39	722	0.58
3508654	1.59	21	0.21	0.53	997	0.67
3508655	1.57	19	0.21	0.58	1027	0.64
3508656	2.33	19	0.21	0.73	775	0.51
3508657	1.77	22	0.17	0.36	769	0.55
3508658	1.94	18	0.23	0.84	737	0.59
3508659	3.19	14	0.13	1.66	729	0.49
3508660	2.16	54	0.09	0.34	322	0.47
3508661	2.91	10	0.12	1.66	546	0.38
3508662	2.25	22	0.14	1.95	771	0.57
3508663	2.70	15	0.14	0.36	710	0.47
3508664	3.16	13	0.15	0.79	735	0.48
3508665	2.87	5	0.12	1.23	539	0.36
3508666	2.60	4	0.12	1.51	469	0.34
3508667	2.71	4	0.12	1.24	474	0.35
3508668	3.48	5	0.12	1.19	461	0.35
3508669	2.68	17	0.14	0.72	732	0.51

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508670	0.03	<1	<0.01	0.01	80.8	<0.01
3508671	2.59	17	0.15	0.50	798	0.52
3508672	2.62	18	0.16	0.28	799	0.54
3508673	2.56	18	0.17	0.30	773	0.53
3508674	2.57	17	0.17	0.78	739	0.53
3508675	2.56	17	0.15	0.40	701	0.50
3508676	2.46	17	0.15	1.30	647	0.48
3508677	2.55	18	0.16	0.33	629	0.50
3508678	2.62	18	0.16	0.30	655	0.48
3508679	2.62	17	0.16	0.40	643	0.52
3508680	2.09	54	0.10	0.37	316	0.47
3508681	2.72	17	0.16	0.30	615	0.48
3508682	2.51	19	0.17	0.70	677	0.53
3508683	2.45	20	0.18	0.35	674	0.57
3508684	2.36	24	0.19	0.54	673	0.58
3508685	1.83	23	0.17	0.66	635	0.62
3508686	1.84	22	0.16	0.94	707	0.59
3508687	1.87	24	0.16	0.95	743	0.60
3508688	2.55	21	0.13	0.49	605	0.53
3508689	2.82	17	0.15	0.33	630	0.50
3508690	0.06	1	<0.01	0.01	78.5	0.01
3508691	2.67	18	0.16	0.73	749	0.51
3508692	2.37	19	0.17	0.38	684	0.58
3508693	2.06	21	0.19	0.36	706	0.62
3508694	2.56	18	0.18	0.39	729	0.55
3508695	2.63	18	0.17	0.40	745	0.55
3508696	2.64	17	0.16	0.79	629	0.52
3508697	2.36	19	0.14	0.34	604	0.59
3508698	2.71	17	0.16	0.29	652	0.51

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508699	2.83	16	0.16	0.35	679	0.50
3508700	2.14	55	0.11	0.36	320	0.47
3508701	2.76	18	0.16	0.79	696	0.52
3508702	2.80	17	0.16	0.55	646	0.51
3508703	2.58	16	0.15	0.45	577	0.49
3508704	2.99	15	0.15	0.32	661	0.49
3508705	2.71	16	0.15	0.21	587	0.49
3508706	2.22	21	0.15	0.22	614	0.60
3508707	2.49	22	0.19	0.37	740	0.58
3508708	2.51	20	0.20	0.60	632	0.59
3508709	2.39	22	0.18	0.37	676	0.57
3508710	0.05	<1	<0.01	0.01	85.6	<0.01
3508711	2.28	25	0.18	0.44	733	0.60
3508712	2.27	24	0.22	0.45	717	0.66
3508713	2.51	27	0.17	1.06	721	0.59
3508714	2.32	25	0.18	1.95	685	0.55
3508715	2.63	26	0.18	1.66	824	0.58
*Dup 3508678	2.64	17	0.16	0.30	657	0.48
*Std OREAS 601	1.45	22	0.05	1.04	222	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Rep 3508681	2.74	17	0.16	0.30	624	0.48
*Std OREAS 520	1.44	72	0.08	1.00	104	0.42
*Std OREAS 520	1.44	73	0.07	0.94	103	0.40
*Blk BLANK	<0.01	<1	<0.01	<0.01	1.1	<0.01
*Rep 3508656	2.29	20	0.22	0.74	758	0.51
*Std OREAS 601	1.51	22	0.04	1.02	228	0.17
*Std OREAS 520	1.46	77	0.07	0.98	113	0.41
*Std OREAS 601	1.43	25	0.05	1.05	233	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.7	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508640	210	49	39.2	0.57	17	1.3
3508641	563	137	25.8	0.51	3	0.5
3508642	464	255	22.4	1.95	3	1.3
3508643	460	146	17.6	0.70	4	0.4
3508644	583	193	21.7	0.64	5	0.4
3508645	533	171	20.7	0.48	4	0.3
3508646	479	223	20.2	1.23	4	0.4
3508647	432	157	22.4	0.54	2	0.4
3508648	393	162	19.6	0.72	4	0.5
3508649	374	143	19.6	0.64	3	0.5
3508650	3	3	1.6	0.03	<1	<0.1
3508651	411	167	19.0	0.58	3	0.5
3508652	389	180	16.5	1.08	3	0.8
3508653	374	264	18.5	0.91	3	0.5
3508654	392	328	15.6	1.05	3	0.7
3508655	387	316	14.9	1.09	3	0.7
3508656	286	212	17.7	1.11	3	0.7
3508657	341	132	19.6	0.63	4	0.6
3508658	337	109	16.3	0.70	4	0.7
3508659	270	68	30.5	0.18	5	1.0
3508660	114	75	68.5	0.43	23	3.2
3508661	230	79	38.4	0.15	4	1.3
3508662	361	407	16.5	0.39	3	0.8
3508663	286	125	21.3	0.43	2	1.1
3508664	260	88	28.9	0.23	3	1.0
3508665	161	23	42.5	0.06	2	2.1
3508666	137	35	38.5	0.06	2	1.4
3508667	124	29	48.4	0.10	4	1.3
3508668	145	48	55.3	0.12	12	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508669	313	120	17.5	0.52	5	1.0
3508670	<2	2	1.2	<0.02	3	<0.1
3508671	327	140	19.8	0.64	5	1.0
3508672	351	126	20.4	0.46	5	1.0
3508673	359	109	19.2	0.33	1	0.8
3508674	353	121	18.8	0.59	3	0.8
3508675	331	105	17.7	0.45	3	0.9
3508676	311	149	16.4	0.84	4	1.2
3508677	324	91	19.9	0.59	2	0.7
3508678	312	88	18.6	0.38	2	0.7
3508679	335	108	18.8	0.72	2	0.7
3508680	126	77	71.8	0.20	25	3.4
3508681	301	99	20.1	0.44	2	0.8
3508682	353	159	18.8	0.95	2	0.8
3508683	386	116	19.1	0.40	2	0.7
3508684	391	131	18.4	1.13	2	0.7
3508685	427	129	21.7	0.67	3	0.5
3508686	430	121	17.6	0.85	4	0.5
3508687	431	126	18.7	0.88	4	0.5
3508688	386	114	16.2	0.69	4	0.6
3508689	336	100	17.3	0.37	3	0.9
3508690	5	3	1.6	0.11	<1	<0.1
3508691	366	109	15.8	0.77	6	0.7
3508692	406	102	16.0	0.75	5	0.5
3508693	453	103	17.5	1.09	3	0.6
3508694	365	99	14.9	0.75	3	0.5
3508695	373	101	14.5	0.75	4	0.5
3508696	366	177	14.3	1.50	2	0.8
3508697	422	114	20.8	0.80	4	0.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508698	340	93	16.3	0.86	3	1.0
3508699	320	85	15.3	0.63	3	0.7
3508700	127	75	70.3	0.26	24	3.1
3508701	338	111	14.6	0.85	4	0.7
3508702	369	89	16.2	0.57	3	0.9
3508703	323	78	18.6	0.38	4	0.8
3508704	313	81	16.9	0.46	8	1.0
3508705	321	75	17.8	0.40	4	0.8
3508706	427	99	16.4	0.52	3	0.5
3508707	359	104	14.4	0.36	2	0.8
3508708	344	110	11.4	0.38	3	0.6
3508709	378	100	13.9	0.51	1	0.6
3508710	2	3	1.5	0.02	<1	<0.1
3508711	390	95	15.6	0.47	<1	0.8
3508712	398	96	15.3	0.40	<1	1.2
3508713	374	103	14.9	0.53	2	0.6
3508714	343	89	12.6	0.56	3	0.5
3508715	432	153	15.9	1.39	2	0.9
*Dup 3508678	307	86	19.4	0.38	2	0.7
*Std OREAS 601	27	1222	152	50.61	285	2.5
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Rep 3508681	302	96	20.0	0.47	2	0.8
*Std OREAS 520	269	21	126	0.48	156	1.1
*Std OREAS 520	242	21	133	0.38	152	1.2
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Rep 3508656	285	211	17.6	1.15	3	0.7
*Std OREAS 601	25	1243	157	52.89	309	2.4
*Std OREAS 520	269	22	136	0.41	148	1.2
*Std OREAS 601	29	1217	162	52.10	307	2.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<2	1	<0.5	0.03	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508640	0.14	0.20	22.26	15.8	2	19.6
3508641	0.23	0.44	9.22	56.8	<1	21.0
3508642	6.22	3.72	9.73	46.3	2	20.4
3508643	0.06	0.62	7.68	50.7	1	21.4
3508644	0.06	0.78	10.52	56.0	<1	21.5
3508645	0.05	0.37	10.20	57.7	<1	22.2
3508646	0.07	1.02	10.28	55.4	<1	21.2
3508647	0.04	0.46	12.65	55.3	<1	20.5
3508648	0.04	0.67	13.05	51.5	<1	20.7
3508649	0.05	0.56	13.75	47.2	<1	20.6
3508650	<0.04	0.02	1.01	4.0	<1	0.4
3508651	0.04	0.60	13.80	51.8	<1	20.5
3508652	0.09	1.17	14.34	49.1	<1	19.5
3508653	0.06	1.85	15.01	48.6	<1	18.9
3508654	0.21	2.48	16.52	49.5	<1	22.1
3508655	0.21	2.40	16.47	47.9	<1	22.3
3508656	0.08	1.07	18.82	37.1	1	20.7
3508657	0.05	0.44	17.09	41.9	<1	20.3
3508658	0.09	0.31	19.24	42.0	<1	20.6
3508659	0.17	0.08	19.14	29.8	<1	21.1
3508660	0.63	0.39	63.69	15.4	12	17.9
3508661	0.16	0.12	20.72	22.1	1	20.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508662	0.18	2.48	16.23	43.4	2	20.7
3508663	<0.04	0.34	18.28	33.9	1	20.1
3508664	0.05	0.12	20.03	28.5	1	20.4
3508665	0.08	0.04	23.17	15.1	1	21.7
3508666	0.12	0.11	22.93	14.4	1	20.3
3508667	0.12	0.08	23.76	13.6	<1	20.7
3508668	0.12	0.09	22.78	16.0	1	20.4
3508669	0.10	0.42	18.94	40.1	<1	20.8
3508670	<0.04	<0.02	0.90	4.0	<1	0.2
3508671	0.35	0.74	17.56	40.4	1	20.2
3508672	0.05	0.46	18.29	42.3	1	19.6
3508673	0.06	0.30	21.35	42.1	1	20.0
3508674	0.13	0.36	20.94	39.1	2	19.9
3508675	<0.04	0.31	19.93	37.6	1	19.3
3508676	0.35	0.66	20.65	38.0	3	18.6
3508677	<0.04	0.25	20.21	40.4	<1	19.1
3508678	<0.04	0.21	20.58	37.4	<1	19.0
3508679	0.13	0.36	20.72	38.1	<1	19.4
3508680	0.67	0.21	70.08	17.2	14	17.3
3508681	<0.04	0.34	20.73	36.5	1	18.4
3508682	0.36	1.01	21.94	42.5	1	19.5
3508683	0.08	0.31	21.39	43.0	1	19.3
3508684	0.04	0.57	19.37	43.6	<1	17.5
3508685	0.08	0.41	18.16	46.1	1	20.0
3508686	0.10	0.37	16.74	48.5	<1	19.6
3508687	0.10	0.38	16.66	49.3	<1	20.4
3508688	0.05	0.30	16.33	45.4	1	19.3
3508689	0.06	0.28	19.57	38.4	1	18.9
3508690	<0.04	<0.02	1.05	1.5	<1	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508691	0.41	0.38	17.68	41.8	1	19.3
3508692	<0.04	0.31	18.40	43.8	<1	20.0
3508693	<0.04	0.38	19.39	44.6	<1	19.2
3508694	0.09	0.29	18.99	42.1	<1	19.1
3508695	0.14	0.32	18.80	43.1	<1	18.8
3508696	0.89	2.92	19.41	41.4	1	19.1
3508697	<0.04	0.23	18.43	40.8	<1	19.5
3508698	<0.04	0.31	20.43	39.9	<1	19.3
3508699	<0.04	0.22	20.90	38.1	<1	19.4
3508700	0.66	0.22	71.20	16.7	14	17.0
3508701	0.10	0.39	20.61	39.1	1	18.2
3508702	0.06	0.24	18.09	39.8	1	19.2
3508703	<0.04	0.16	21.04	35.4	1	19.5
3508704	<0.04	0.19	20.76	36.4	<1	17.7
3508705	<0.04	0.19	21.52	37.0	<1	19.1
3508706	<0.04	0.26	19.31	42.6	<1	19.3
3508707	<0.04	0.19	20.92	40.9	<1	18.6
3508708	0.05	0.17	22.25	38.0	2	18.7
3508709	<0.04	0.24	20.28	40.1	1	17.7
3508710	<0.04	<0.02	1.02	1.6	<1	0.2
3508711	0.04	0.26	18.39	41.7	<1	18.9
3508712	0.04	0.22	20.47	45.9	<1	21.0
3508713	0.28	0.47	16.28	37.5	1	17.2
3508714	0.18	0.23	17.38	64.1	1	17.7
3508715	0.24	1.23	18.52	41.5	<1	18.8
*Dup 3508678	<0.04	0.20	19.59	35.9	<1	17.5
*Std OREAS 601	20.01	8.50	65.06	5.6	8	19.6
*Blk BLANK	<0.04	<0.02	0.09	<0.1	<1	<0.1
*Rep 3508681	<0.04	0.32	21.00	37.1	1	19.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	2.88	0.04	83.07	206	<1	18.6
*Std OREAS 520	2.89	0.15	82.18	214	<1	19.5
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Rep 3508656	0.08	1.07	19.00	36.8	1	20.8
*Std OREAS 601	20.01	8.48	60.82	5.7	7	21.9
*Std OREAS 520	2.98	0.07	83.81	193	<1	17.9
*Std OREAS 601	20.18	8.31	62.90	5.3	7	20.3
*Blk BLANK	<0.04	<0.02	<0.05	0.1	<1	<0.1

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508640	1.40	0.10	11.2	0.36	13.05	3.0
3508641	1.19	0.08	3.8	0.20	6.70	1.8
3508642	1.01	0.10	4.5	0.19	24.21	2.0
3508643	0.86	0.07	3.3	0.17	3.05	1.7
3508644	1.03	0.08	4.4	0.22	2.67	1.6
3508645	1.02	0.08	4.2	0.23	3.06	1.3
3508646	1.00	0.09	4.2	0.23	2.86	1.3
3508647	1.13	0.08	5.4	0.28	2.54	1.2
3508648	0.96	0.08	5.8	0.25	2.26	1.4
3508649	0.94	0.07	6.3	0.25	2.52	1.7
3508650	0.06	<0.02	1.2	0.02	0.06	0.2
3508651	0.90	0.07	6.1	0.25	1.89	1.6
3508652	0.87	0.09	6.4	0.25	2.90	1.7
3508653	0.89	0.08	6.8	0.26	3.35	2.2
3508654	0.78	0.08	7.6	0.25	3.28	3.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508655	0.73	0.07	7.7	0.23	3.15	3.0
3508656	0.82	0.07	9.0	0.23	6.99	2.9
3508657	0.98	0.08	8.0	0.27	3.78	2.5
3508658	0.86	0.08	9.1	0.26	5.80	2.7
3508659	1.19	0.05	9.6	0.23	10.72	7.0
3508660	2.20	0.07	31.8	0.36	99.38	18.2
3508661	1.47	0.06	10.9	0.24	18.15	7.1
3508662	0.82	0.10	7.8	0.24	16.28	4.2
3508663	1.08	0.06	9.0	0.28	6.37	5.7
3508664	1.20	0.07	9.8	0.27	19.02	6.3
3508665	1.67	0.03	12.0	0.26	17.22	8.5
3508666	1.48	0.04	12.1	0.23	22.80	8.3
3508667	1.78	0.04	12.4	0.25	18.01	9.3
3508668	1.75	0.04	11.8	0.26	16.05	8.9
3508669	0.90	0.07	9.2	0.28	8.82	5.1
3508670	0.03	<0.02	1.0	0.02	0.09	0.1
3508671	0.97	0.07	8.6	0.27	7.55	4.9
3508672	0.95	0.06	8.9	0.26	1.85	3.8
3508673	0.99	0.06	10.2	0.30	2.70	5.1
3508674	0.98	0.06	9.8	0.28	12.43	4.7
3508675	0.92	0.06	9.5	0.28	2.98	4.7
3508676	0.85	0.07	9.8	0.27	7.62	4.6
3508677	1.03	0.06	9.6	0.28	5.09	4.9
3508678	0.97	0.05	9.8	0.28	3.61	4.9
3508679	1.00	0.06	9.8	0.28	4.30	5.0
3508680	2.74	0.08	34.4	0.40	108	20.1
3508681	1.02	0.05	10.1	0.28	4.40	5.7
3508682	1.05	0.06	10.5	0.30	8.56	5.7
3508683	1.07	0.06	10.3	0.29	4.33	5.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508684	0.97	0.07	9.0	0.29	3.36	3.7
3508685	1.07	0.06	8.4	0.28	15.03	4.0
3508686	0.91	0.07	7.5	0.25	14.59	2.6
3508687	0.90	0.08	7.7	0.26	14.80	2.6
3508688	0.89	0.07	7.7	0.25	4.33	3.7
3508689	0.85	0.05	9.4	0.26	8.11	4.5
3508690	0.05	<0.02	1.2	0.02	0.16	0.1
3508691	0.77	0.06	8.6	0.24	42.83	3.2
3508692	0.87	0.07	8.6	0.25	1.89	3.3
3508693	0.92	0.07	9.1	0.26	3.11	3.8
3508694	0.77	0.06	9.1	0.24	7.10	3.4
3508695	0.74	0.06	8.9	0.24	6.74	3.5
3508696	0.78	0.07	9.4	0.26	5.40	3.6
3508697	1.05	0.07	8.6	0.28	1.70	5.5
3508698	0.85	0.06	9.5	0.27	1.77	4.7
3508699	0.80	0.06	10.1	0.27	2.16	5.9
3508700	2.57	0.08	34.8	0.39	103	19.2
3508701	0.81	0.06	9.9	0.25	44.92	4.9
3508702	0.81	0.06	8.9	0.24	6.23	6.4
3508703	0.89	0.05	10.1	0.28	11.91	6.6
3508704	0.86	0.05	10.2	0.28	2.27	6.2
3508705	0.85	0.06	10.6	0.29	1.77	6.0
3508706	0.90	0.07	9.0	0.28	1.73	5.1
3508707	0.73	0.06	10.0	0.27	1.96	4.5
3508708	0.62	0.06	10.5	0.26	2.06	4.4
3508709	0.79	0.07	9.3	0.26	2.05	4.5
3508710	0.05	<0.02	1.2	0.02	0.05	0.2
3508711	0.78	0.07	8.8	0.28	1.91	4.5
3508712	0.81	0.07	9.7	0.29	1.61	5.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508713	0.70	0.07	7.9	0.25	10.40	4.1
3508714	0.63	0.06	8.5	0.24	5.64	2.8
3508715	0.72	0.09	9.4	0.25	257	2.7
*Dup 3508678	0.95	0.05	9.4	0.27	3.45	4.9
*Std OREAS 601	4.83	1.92	32.6	0.10	4.09	14.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	0.09	<0.1
*Rep 3508681	0.99	0.05	10.2	0.29	4.45	5.7
*Std OREAS 520	3.81	0.12	81.8	0.37	68.11	5.5
*Std OREAS 520	3.79	0.12	84.3	0.37	70.10	5.1
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508656	0.83	0.06	9.1	0.25	6.87	2.9
*Std OREAS 601	4.58	1.86	30.6	0.11	4.10	13.8
*Std OREAS 520	3.81	0.12	86.1	0.38	65.70	5.1
*Std OREAS 601	4.57	1.82	31.3	0.10	4.18	13.4
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508640	6.2	102	11.7	4	0.83	2.2
3508641	12.2	41.2	43.3	<2	1.38	0.8
3508642	321	58.4	33.4	3	1.96	0.8
3508643	3.3	40.6	35.8	<2	1.42	0.7
3508644	2.4	36.5	41.1	<2	1.56	0.8
3508645	2.3	29.7	45.8	<2	1.96	0.9
3508646	2.7	29.7	45.9	<2	1.34	0.8
3508647	2.5	27.7	44.1	<2	0.82	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508648	3.8	30.9	39.1	<2	1.01	0.8
3508649	2.7	31.0	36.2	<2	0.76	0.8
3508650	<0.5	0.5	0.5	<2	0.06	<0.3
3508651	3.0	32.2	40.7	<2	0.96	0.7
3508652	9.9	46.4	38.7	2	1.04	0.8
3508653	5.0	34.3	36.0	<2	0.96	0.9
3508654	14.6	37.6	35.7	2	1.10	0.9
3508655	14.4	38.9	34.2	<2	1.05	0.9
3508656	6.8	53.3	28.9	<2	1.18	0.7
3508657	3.5	42.4	37.0	<2	1.07	0.7
3508658	3.6	51.3	32.4	2	0.96	0.8
3508659	3.5	47.0	25.2	<2	1.21	1.1
3508660	18.3	204	14.4	2	2.25	3.3
3508661	3.5	80.9	18.7	<2	1.03	0.9
3508662	3.5	59.2	37.9	3	1.46	1.0
3508663	3.9	64.8	28.2	<2	0.68	0.9
3508664	3.3	65.9	25.2	<2	0.71	1.0
3508665	2.1	95.0	13.6	<2	0.66	0.8
3508666	2.6	99.8	11.9	<2	0.96	0.9
3508667	3.1	98.6	12.0	<2	1.24	0.9
3508668	3.2	82.8	13.4	<2	1.44	1.0
3508669	4.1	50.9	31.3	<2	1.76	1.0
3508670	0.6	0.3	<0.5	<2	0.12	<0.3
3508671	26.5	55.6	32.6	<2	2.16	1.0
3508672	4.3	54.1	33.8	<2	1.00	0.7
3508673	5.6	49.8	31.5	<2	0.51	0.8
3508674	7.3	65.6	29.5	<2	1.20	0.8
3508675	10.4	51.1	30.5	<2	0.52	0.7
3508676	28.4	73.5	29.1	2	1.27	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508677	4.8	47.3	30.3	<2	0.66	0.7
3508678	6.3	45.5	29.7	<2	0.67	0.8
3508679	9.1	45.9	29.9	<2	0.91	0.7
3508680	23.8	189	14.6	2	2.16	3.7
3508681	5.6	49.3	27.6	<2	0.78	0.7
3508682	28.1	47.9	30.9	<2	1.07	0.9
3508683	10.8	40.5	33.2	<2	0.85	0.7
3508684	5.0	36.6	35.2	<2	0.92	0.8
3508685	5.0	46.5	38.2	<2	1.20	0.7
3508686	5.1	32.7	36.7	<2	1.18	0.8
3508687	5.5	34.4	37.6	2	1.21	0.8
3508688	4.1	41.7	34.2	<2	0.79	0.8
3508689	7.0	49.2	28.6	<2	0.78	0.7
3508690	1.1	0.7	0.7	<2	0.10	<0.3
3508691	32.7	41.7	29.3	2	1.76	0.7
3508692	4.5	38.3	31.8	<2	1.48	0.8
3508693	4.2	38.3	35.2	<2	1.10	0.7
3508694	10.1	36.9	29.8	<2	0.89	0.7
3508695	14.9	38.2	31.0	<2	0.91	0.8
3508696	73.3	49.9	28.1	<2	0.63	0.8
3508697	5.2	44.6	33.2	<2	1.20	0.9
3508698	4.2	46.7	29.7	<2	0.86	0.8
3508699	6.3	41.3	27.5	<2	1.09	0.8
3508700	23.8	190	14.3	2	2.10	3.6
3508701	7.6	42.3	29.3	<2	1.15	0.9
3508702	6.8	44.9	29.4	<2	1.15	0.9
3508703	4.6	57.9	27.0	<2	1.22	0.9
3508704	3.8	37.8	25.3	<2	1.41	0.8
3508705	3.4	39.5	26.9	<2	0.71	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508706	3.1	38.5	31.9	<2	0.58	1.0
3508707	4.0	40.2	31.1	<2	0.97	0.8
3508708	4.9	57.1	29.3	<2	0.79	1.0
3508709	3.8	40.8	30.9	<2	0.76	1.0
3508710	0.8	<0.2	<0.5	<2	0.09	<0.3
3508711	2.8	41.0	34.6	<2	0.92	1.0
3508712	2.9	45.5	39.1	2	0.73	0.9
3508713	19.9	40.7	33.0	<2	1.31	0.8
3508714	11.8	46.0	32.1	2	1.16	0.7
3508715	15.4	41.2	35.4	3	0.99	1.2
*Dup 3508678	5.7	44.4	29.6	<2	0.64	0.7
*Std OREAS 601	311	90.6	5.0	12	30.34	4.6
*Blk BLANK	0.6	0.2	<0.5	<2	<0.05	<0.3
*Rep 3508681	5.7	49.2	29.6	<2	0.78	0.8
*Std OREAS 520	7.1	104	18.7	<2	2.96	5.0
*Std OREAS 520	5.7	114	17.9	<2	3.13	4.8
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508656	6.8	52.8	28.7	2	1.20	0.7
*Std OREAS 601	309	102	5.7	12	32.34	4.4
*Std OREAS 520	6.3	115	17.7	<2	3.18	4.6
*Std OREAS 601	318	99.0	5.1	12	32.34	4.4
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508640	0.18	0.58	0.06	1.8	0.23	1.20

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508641	0.11	0.52	0.07	0.3	0.13	0.21
3508642	0.12	0.45	0.18	0.4	0.24	0.40
3508643	0.12	0.43	0.08	0.2	0.15	0.13
3508644	0.09	0.55	0.08	0.3	0.13	0.18
3508645	0.07	0.57	<0.05	0.3	0.11	0.14
3508646	0.08	0.57	0.07	0.3	0.10	0.17
3508647	0.08	0.62	0.06	0.4	0.10	0.13
3508648	0.08	0.58	0.09	0.3	0.11	0.18
3508649	0.09	0.59	<0.05	0.3	0.10	0.14
3508650	<0.05	<0.05	0.06	<0.2	<0.02	0.13
3508651	0.09	0.62	<0.05	0.3	0.11	0.14
3508652	0.09	0.60	0.07	0.3	0.17	0.21
3508653	0.13	0.58	0.07	0.5	0.12	0.18
3508654	0.15	0.60	0.09	0.4	0.13	0.20
3508655	0.14	0.58	0.08	0.4	0.14	0.23
3508656	0.16	0.57	0.09	0.7	0.20	0.23
3508657	0.14	0.59	0.07	0.4	0.15	0.17
3508658	0.13	0.62	0.08	0.5	0.17	0.24
3508659	0.39	0.54	0.14	1.8	0.18	0.99
3508660	1.26	0.82	0.23	18.3	0.87	4.87
3508661	0.42	0.50	0.14	2.3	0.29	1.22
3508662	0.22	0.56	0.14	0.9	0.23	0.41
3508663	0.29	0.57	<0.05	1.0	0.20	0.48
3508664	0.32	0.58	0.06	1.4	0.23	0.85
3508665	0.49	0.56	0.10	2.7	0.37	1.63
3508666	0.48	0.54	0.12	2.5	0.41	1.56
3508667	0.54	0.55	0.17	2.9	0.39	1.58
3508668	0.51	0.53	0.15	2.6	0.32	1.47
3508669	0.25	0.61	0.09	0.8	0.16	0.44

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508670	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508671	0.24	0.57	0.06	0.9	0.18	0.44
3508672	0.18	0.57	<0.05	0.6	0.16	0.47
3508673	0.67	0.65	<0.05	0.6	0.17	0.29
3508674	0.35	0.63	<0.05	0.8	0.28	0.40
3508675	0.33	0.59	0.06	0.7	0.20	0.40
3508676	0.28	0.60	0.08	0.8	0.31	0.48
3508677	0.30	0.61	<0.05	0.8	0.15	0.36
3508678	0.30	0.62	<0.05	1.0	0.14	0.41
3508679	0.29	0.63	<0.05	0.9	0.14	0.43
3508680	1.59	0.94	0.25	20.7	1.03	5.86
3508681	0.34	0.61	<0.05	1.2	0.14	0.49
3508682	0.29	0.66	<0.05	1.0	0.15	0.49
3508683	0.27	0.68	<0.05	0.9	0.13	0.41
3508684	0.21	0.65	<0.05	0.6	0.12	0.35
3508685	0.22	0.65	<0.05	0.5	0.17	0.29
3508686	0.16	0.62	0.05	0.4	0.11	0.25
3508687	0.15	0.62	0.07	0.4	0.11	0.25
3508688	0.21	0.59	<0.05	0.5	0.15	0.27
3508689	0.23	0.59	<0.05	0.7	0.17	0.39
3508690	<0.05	<0.05	<0.05	<0.2	<0.02	0.13
3508691	0.17	0.58	<0.05	0.5	0.16	0.34
3508692	0.17	0.62	<0.05	0.5	0.15	0.26
3508693	0.21	0.64	<0.05	0.7	0.12	0.37
3508694	0.19	0.57	<0.05	0.6	0.13	0.32
3508695	0.18	0.57	<0.05	0.6	0.12	0.32
3508696	0.17	0.59	<0.05	0.7	0.18	0.50
3508697	0.30	0.61	<0.05	1.0	0.17	0.53
3508698	0.26	0.61	0.06	0.9	0.15	0.43

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508699	0.31	0.60	<0.05	1.1	0.15	0.42
3508700	1.54	0.94	0.24	19.2	0.98	6.20
3508701	0.27	0.59	0.06	0.9	0.16	0.48
3508702	0.33	0.54	<0.05	1.4	0.16	0.63
3508703	0.36	0.59	<0.05	1.5	0.21	0.59
3508704	0.36	0.59	<0.05	1.5	0.13	0.59
3508705	0.33	0.63	<0.05	1.3	0.13	0.52
3508706	0.28	0.65	<0.05	1.0	0.12	0.40
3508707	0.20	0.62	<0.05	0.7	0.14	0.38
3508708	0.20	0.63	<0.05	0.6	0.25	0.38
3508709	0.22	0.63	<0.05	0.7	0.17	0.34
3508710	<0.05	<0.05	<0.05	<0.2	<0.02	0.11
3508711	0.25	0.59	0.07	0.6	0.17	0.31
3508712	0.24	0.65	0.07	0.7	0.18	0.35
3508713	0.22	0.53	<0.05	0.6	0.17	0.31
3508714	0.16	0.53	0.11	0.5	0.20	0.24
3508715	0.16	0.55	0.13	0.5	0.17	0.64
*Dup 3508678	0.32	0.58	<0.05	1.0	0.15	0.42
*Std OREAS 601	1.13	0.61	17.42	11.7	1.30	4.03
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508681	0.32	0.60	<0.05	1.3	0.15	0.53
*Std OREAS 520	0.44	0.73	0.33	10.6	0.27	18.49
*Std OREAS 520	0.36	0.69	0.35	9.5	0.24	17.16
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508656	0.16	0.57	<0.05	0.7	0.19	0.24
*Std OREAS 601	0.99	0.59	16.20	11.2	1.15	3.92
*Std OREAS 520	0.39	0.67	0.42	10.4	0.27	18.39
*Std OREAS 601	0.99	0.56	15.61	11.7	1.25	4.10
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508640	1.0	21.0	2.3
3508641	0.8	15.5	1.4
3508642	1.8	13.8	1.2
3508643	0.7	12.9	1.1
3508644	0.9	16.3	1.4
3508645	1.0	17.4	1.6
3508646	1.1	17.6	1.6
3508647	0.5	19.6	1.8
3508648	0.5	18.9	1.7
3508649	0.5	18.2	1.7
3508650	<0.1	2.5	0.1
3508651	0.5	19.2	1.7
3508652	1.7	18.9	1.6
3508653	0.6	18.7	1.7
3508654	0.7	18.7	1.6
3508655	0.7	18.2	1.5
3508656	0.8	18.1	1.6
3508657	0.7	19.6	1.7
3508658	1.4	20.0	1.7
3508659	1.7	18.3	1.6
3508660	3.8	25.6	2.3
3508661	1.7	17.0	1.5
3508662	1.5	18.1	1.6
3508663	1.5	19.8	1.8
3508664	1.7	19.7	1.8
3508665	1.5	19.1	1.8
3508666	2.3	18.3	1.6
3508667	1.7	19.3	1.8
3508668	2.1	18.9	1.7
3508669	1.3	20.4	1.8
3508670	<0.1	2.2	0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508671	0.9	19.5	1.8
3508672	0.6	19.5	1.7
3508673	0.6	19.2	1.9
3508674	1.1	18.7	1.9
3508675	0.6	18.3	1.8
3508676	1.3	19.3	1.8
3508677	0.5	19.2	1.8
3508678	0.6	18.4	1.8
3508679	0.8	18.7	1.9
3508680	4.4	27.1	2.6
3508681	0.6	18.7	1.9
3508682	0.9	20.6	2.0
3508683	0.7	20.8	2.0
3508684	0.6	19.7	1.9
3508685	0.7	20.4	1.9
3508686	0.8	18.5	1.7
3508687	0.7	19.6	1.7
3508688	0.8	17.4	1.7
3508689	0.7	17.6	1.7
3508690	<0.1	2.6	0.2
3508691	1.2	17.9	1.6
3508692	0.8	18.4	1.7
3508693	0.6	19.5	1.8
3508694	0.9	17.4	1.6
3508695	0.8	17.8	1.6
3508696	0.7	17.7	1.6
3508697	0.7	18.8	1.9
3508698	0.6	17.8	1.7
3508699	0.7	19.6	1.8
3508700	5.3	25.7	2.6
3508701	1.1	18.0	1.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05251

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508702	2.5	17.2	1.6
3508703	1.3	18.1	1.8
3508704	1.5	17.1	1.8
3508705	0.6	18.1	1.9
3508706	0.5	19.6	1.9
3508707	0.6	19.3	1.7
3508708	1.3	19.2	1.7
3508709	0.5	19.4	1.8
3508710	<0.1	2.4	0.1
3508711	0.7	18.4	1.8
3508712	0.6	21.0	1.9
3508713	0.8	16.9	1.7
3508714	1.0	17.0	1.6
3508715	1.0	17.6	1.6
*Dup 3508678	0.6	17.7	1.8
*Std OREAS 601	6.3	11.9	0.7
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508681	0.6	19.1	1.9
*Std OREAS 520	46.6	21.9	2.3
*Std OREAS 520	44.7	21.8	2.2
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508656	0.8	18.2	1.6
*Std OREAS 601	5.7	12.5	0.7
*Std OREAS 520	50.3	21.3	2.3
*Std OREAS 601	5.9	11.7	0.7
*Blk BLANK	<0.1	<0.1	<0.1

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05252

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	21-Oct-2020
Submission Number (229-304)	*BBY* MAX20_Core_16/ 329 Cores	Date Analysed	24-Oct-2020 - 05-Nov-2020
		Date Completed	05-Nov-2020
Number of Samples	76	SGS Order Number	BBM20-05252

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508716	5.51	77	7.60	843	7.91	35
3508717	5.28	17	8.19	800	7.13	36
3508718	5.41	26	7.58	424	8.79	35
3508719	5.17	54	7.41	353	9.35	61
3508720	0.15	658	7.79	937	2.52	57
3508721	4.96	46	6.95	326	9.19	57
3508722	6.01	43	7.75	474	8.33	29
3508723	5.29	7	8.24	416	8.30	56
3508724	5.57	22	8.09	337	8.82	41
3508725	5.62	48	8.11	324	8.93	40
3508726	4.29	31	8.80	369	8.50	15
3508727	6.62	13	8.63	269	7.20	9
3508728	5.53	28	7.99	251	8.50	35
3508729	5.12	23	7.43	247	9.65	30
3508730	1.20	<5	0.10	38	>15.00	<1
3508731	5.20	30	7.78	276	8.26	33
3508732	5.43	13	8.85	316	8.98	11
3508733	5.64	34	7.93	286	9.08	14
3508734	5.45	36	8.30	328	8.49	14
3508735	-	41	8.37	337	8.65	14
3508736	5.94	41	6.10	264	9.40	16
3508737	5.81	24	7.14	247	9.43	17
3508738	5.56	17	9.17	297	9.40	18
3508739	5.78	15	9.07	384	8.97	18
3508740	0.15	227	8.02	1015	2.57	75
3508741	5.33	10	5.78	271	9.21	44
3508742	5.83	58	3.48	135	9.66	116
3508743	5.84	7	7.78	317	9.50	80
3508744	6.22	<5	8.87	771	6.42	26

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508745	4.01	10	6.38	304	9.55	26
3508746	5.48	14	7.44	281	8.91	34
3508747	5.09	189	7.21	296	8.64	86
3508748	4.82	172	7.39	196	8.29	112
3508749	5.17	<5	7.03	207	8.62	67
3508750	1.17	<5	0.08	12	>15.00	1
3508751	5.40	11	7.99	209	9.81	65
3508752	5.47	11	6.80	183	9.88	88
3508753	5.30	16	7.78	198	9.23	38
3508754	5.48	15	8.07	234	8.95	39
3508755	5.42	5	7.54	325	8.95	75
3508756	5.59	31	6.41	189	9.70	93
3508757	5.25	35	7.28	235	9.57	59
3508758	5.37	19	7.36	297	9.16	54
3508759	5.63	17	6.80	177	9.73	53
3508760	0.15	226	7.72	974	2.57	74
3508761	5.75	9	6.71	234	9.42	58
3508762	5.42	<5	5.61	217	10.69	55
3508763	5.48	<5	6.28	231	9.37	49
3508764	5.61	8	6.47	271	8.60	29
3508765	6.02	9	6.55	215	9.63	23
3508766	6.44	<5	7.53	241	9.48	18
3508767	6.53	5	6.66	272	9.28	21
3508768	5.83	<5	6.68	273	8.97	18
3508769	5.61	<5	6.84	284	9.33	21
3508770	1.35	<5	0.09	12	>15.00	<1
3508771	5.38	12	5.99	217	9.54	26
3508772	5.56	40	7.52	306	8.50	22
3508773	5.71	31	7.99	321	7.77	33

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508774	4.80	<5	7.78	361	8.11	41
3508775	-	<5	7.70	354	7.96	40
3508776	5.17	5	7.86	358	8.81	32
3508777	5.03	5	8.55	408	8.02	25
3508778	5.31	10	7.80	341	8.70	25
3508779	4.90	10	7.06	340	8.61	28
3508780	0.15	227	7.73	978	2.56	67
3508781	5.85	<5	6.40	323	8.39	46
3508782	5.66	13	7.47	303	8.84	48
3508783	5.04	<5	7.17	409	8.03	31
3508784	3.91	23	5.08	150	5.12	41
3508785	4.15	14	7.58	376	7.94	41
3508786	5.68	12	7.25	271	9.20	55
3508787	4.36	<5	7.27	287	9.43	54
3508788	4.37	14	6.80	239	9.80	59
3508789	5.53	13	7.27	277	9.40	39
3508790	1.40	7	0.07	11	>15.00	1
3508791	5.24	8	6.72	327	8.40	44
*Dup 3508754	-	20	8.36	242	9.58	40
*Std OREAS 520	-	-	5.84	821	3.91	34
*Std OREAS 601	-	-	6.08	1007	1.22	37
*Rep 3508725	-	-	8.20	329	9.07	40
*Std OREAS 520	-	-	6.14	718	3.94	34
*Std OREAS 601	-	-	6.50	741	1.20	32
*Blk BLANK	-	-	<0.01	1	0.01	<1
*Blk BLANK	-	<5	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508754	-	16	-	-	-	-
*Std SL76	-	6300	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std OXG123	-	980	-	-	-	-
*Rep 3508773	-	31	-	-	-	-
*Std GS-9B	-	9380	-	-	-	-
*Rep 3508789	-	12	-	-	-	-
*Std SL76	-	6040	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OXG123	-	983	-	-	-	-
*Std OREAS 601	-	-	6.08	786	1.21	38
*Rep 3508776	-	-	7.01	325	7.98	25
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OREAS 520	-	-	5.71	668	3.93	33

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508716	1042	9.78	1.48	25	4.05	1926
3508717	496	9.04	1.42	24	3.70	1870
3508718	463	10.52	1.20	28	4.70	1952
3508719	643	9.73	1.17	23	4.77	1760
3508720	5390	4.70	3.40	34	1.41	514
3508721	395	10.46	1.08	23	4.93	1839
3508722	575	9.08	1.69	27	3.82	2047
3508723	482	9.16	1.18	23	4.04	1869
3508724	417	9.55	0.84	24	4.32	1904
3508725	478	9.96	0.97	26	4.26	1831
3508726	308	10.09	1.20	24	4.01	1806
3508727	473	9.46	2.29	30	3.61	1763

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508728	530	11.56	1.13	29	4.40	1969
3508729	342	11.26	0.96	30	4.76	2037
3508730	2.2	0.22	0.02	<1	2.15	192
3508731	335	11.11	1.04	29	4.38	1994
3508732	272	10.52	1.10	32	3.67	1630
3508733	325	11.49	0.94	28	4.20	1751
3508734	529	10.58	1.07	29	4.02	1884
3508735	536	10.74	1.09	30	4.02	1883
3508736	167	13.45	0.85	22	4.96	1946
3508737	172	12.88	0.84	23	4.43	1817
3508738	161	10.21	1.19	25	4.13	1521
3508739	141	9.77	1.34	26	3.87	1494
3508740	2893	4.31	3.50	39	1.51	534
3508741	208	13.84	0.94	25	4.90	2151
3508742	1317	14.76	0.47	24	6.44	2416
3508743	228	10.84	1.56	31	4.83	1830
3508744	212	7.15	1.71	20	2.95	1518
3508745	209	13.03	1.18	28	4.90	2131
3508746	198	11.13	1.23	29	4.23	1791
3508747	2773	10.36	1.13	30	4.90	1765
3508748	5403	10.66	0.80	35	5.19	1662
3508749	367	10.34	0.98	32	4.88	2148
3508750	3.5	0.20	0.01	1	2.48	153
3508751	194	10.19	1.04	29	4.79	1694
3508752	143	10.40	0.90	28	5.36	1802
3508753	243	9.64	1.08	31	4.67	1666
3508754	343	8.77	1.34	35	4.44	1701
3508755	184	8.85	1.37	34	4.76	1899
3508756	565	11.00	0.91	28	5.45	2003

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508757	476	10.05	1.04	29	4.84	1727
3508758	239	10.21	1.39	32	4.49	1646
3508759	209	11.57	0.80	26	4.99	1852
3508760	2678	4.25	3.27	36	1.50	513
3508761	131	11.50	0.86	26	4.85	1960
3508762	249	12.18	0.73	23	4.62	2816
3508763	104	11.66	0.83	29	4.87	2041
3508764	252	12.81	0.99	30	4.59	2065
3508765	111	11.73	0.94	28	4.90	1990
3508766	228	11.23	1.13	31	4.31	2060
3508767	175	12.01	1.40	29	4.56	2385
3508768	136	11.83	1.29	31	4.52	2220
3508769	142	11.88	1.10	28	4.56	2162
3508770	6.9	0.22	0.01	2	2.63	172
3508771	192	12.56	0.76	25	4.85	2116
3508772	217	11.12	1.22	30	4.39	1863
3508773	304	10.68	1.26	29	3.98	1817
3508774	351	9.76	1.38	32	4.20	2077
3508775	338	9.70	1.36	32	4.13	2041
3508776	178	9.90	1.28	33	4.32	1985
3508777	194	9.57	1.31	36	3.95	1966
3508778	183	9.77	1.23	34	4.41	1987
3508779	381	11.00	1.24	33	4.24	2293
3508780	2677	4.23	3.31	36	1.48	512
3508781	198	11.51	1.38	34	4.57	2457
3508782	195	11.17	1.19	32	4.67	2030
3508783	154	10.89	1.45	36	4.49	2194
3508784	1507	14.48	1.46	28	4.19	3290
3508785	325	11.65	1.43	35	4.32	2651

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508786	269	11.39	1.05	31	4.73	2146
3508787	116	10.73	1.05	31	4.49	2048
3508788	120	11.26	0.89	32	5.11	1983
3508789	129	11.07	1.09	33	4.70	1875
3508790	1.8	0.25	<0.01	1	3.17	186
3508791	148	12.07	1.15	30	4.92	2135
*Dup 3508754	356	9.10	1.38	36	4.63	1785
*Std OREAS 520	3004	>15.00	3.59	19	1.18	2300
*Std OREAS 601	992	2.51	2.08	22	0.38	470
*Rep 3508725	483	10.19	0.98	25	4.32	1843
*Std OREAS 520	3159	>15.00	3.81	21	1.19	2340
*Std OREAS 601	1008	2.42	2.14	23	0.37	468
*Blk BLANK	0.6	0.02	<0.01	<1	<0.01	3
*Std OREAS 601	955	2.39	2.09	22	0.37	442
*Rep 3508776	163	9.07	1.14	30	3.84	1754
*Blk BLANK	0.6	0.01	<0.01	<1	<0.01	3
*Std OREAS 520	2834	14.87	3.68	18	1.15	2273

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508716	1.92	28	0.16	0.68	717	0.69
3508717	2.27	25	0.18	1.13	778	0.55
3508718	1.32	30	0.14	0.34	727	0.63
3508719	1.05	33	0.12	0.28	738	0.60
3508720	2.11	33	0.11	0.83	382	0.48
3508721	1.03	35	0.07	0.17	605	0.62

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508722	1.07	25	0.08	0.75	614	0.49
3508723	1.37	23	0.11	0.96	756	0.54
3508724	1.50	26	0.15	0.41	826	0.62
3508725	1.16	27	0.14	0.24	771	0.61
3508726	1.33	21	0.15	0.16	890	0.61
3508727	0.98	19	0.17	0.56	572	0.47
3508728	0.96	27	0.10	0.35	799	0.70
3508729	1.01	28	0.07	0.24	752	0.72
3508730	0.04	<1	<0.01	0.02	88.3	<0.01
3508731	1.34	25	0.06	0.48	686	0.72
3508732	1.25	27	0.04	0.47	746	0.63
3508733	1.07	29	0.05	0.88	716	0.65
3508734	1.35	24	0.05	0.55	686	0.62
3508735	1.37	24	0.05	0.55	702	0.62
3508736	0.79	30	0.05	0.11	455	0.82
3508737	0.87	31	0.04	0.20	614	0.80
3508738	0.89	25	0.03	0.10	777	0.58
3508739	1.06	22	0.04	0.13	738	0.61
3508740	2.15	59	0.10	0.37	344	0.48
3508741	0.88	31	0.05	0.31	398	0.87
3508742	0.71	46	0.03	0.25	264	0.78
3508743	0.70	36	0.03	0.11	653	0.66
3508744	3.15	23	0.21	0.34	1154	0.47
3508745	0.74	33	0.03	0.21	604	0.83
3508746	0.96	30	0.07	0.16	623	0.71
3508747	1.16	42	0.09	1.10	598	0.57
3508748	1.28	71	0.17	2.65	737	0.32
3508749	1.60	29	0.03	0.99	509	0.61
3508750	0.04	<1	<0.01	0.01	73.9	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508751	0.81	31	0.05	0.22	695	0.60
3508752	0.78	32	0.06	0.17	550	0.62
3508753	0.86	27	0.11	0.19	673	0.59
3508754	1.04	27	0.17	0.50	709	0.52
3508755	1.20	29	0.08	0.49	583	0.52
3508756	0.88	37	0.09	0.46	472	0.66
3508757	1.03	31	0.09	0.30	588	0.59
3508758	1.09	30	0.07	0.22	690	0.60
3508759	0.85	35	0.03	0.33	623	0.65
3508760	2.10	57	0.11	0.36	318	0.47
3508761	0.85	34	0.03	0.26	586	0.71
3508762	1.08	30	0.06	0.74	524	0.72
3508763	1.23	31	0.07	0.24	538	0.72
3508764	1.03	32	0.04	0.77	559	0.76
3508765	0.74	30	0.05	0.18	698	0.73
3508766	0.81	26	0.07	0.31	689	0.69
3508767	0.91	28	0.08	1.18	415	0.71
3508768	1.01	28	0.07	0.63	511	0.76
3508769	0.91	29	0.06	0.43	576	0.73
3508770	0.04	<1	<0.01	0.03	78.0	<0.01
3508771	0.87	30	0.08	0.34	506	0.80
3508772	1.03	27	0.09	0.35	574	0.69
3508773	1.36	26	0.12	1.40	614	0.59
3508774	1.49	24	0.10	1.21	572	0.61
3508775	1.47	24	0.10	1.17	566	0.60
3508776	1.25	24	0.15	0.36	612	0.61
3508777	1.55	22	0.19	0.50	686	0.58
3508778	1.29	24	0.13	0.34	627	0.60
3508779	1.34	26	0.09	0.92	573	0.61

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508780	2.11	56	0.11	0.36	319	0.47
3508781	1.48	28	0.07	0.38	498	0.70
3508782	0.95	28	0.11	0.29	567	0.68
3508783	1.55	26	0.12	0.34	488	0.67
3508784	2.41	33	0.05	>5.00	251	0.53
3508785	1.39	28	0.13	1.10	593	0.68
3508786	0.97	29	0.09	0.38	585	0.67
3508787	1.01	31	0.04	0.32	534	0.63
3508788	0.82	33	0.09	0.24	603	0.65
3508789	0.94	29	0.10	0.26	566	0.63
3508790	0.03	<1	<0.01	<0.01	72.8	<0.01
3508791	1.19	30	0.09	0.31	488	0.68
*Dup 3508754	1.08	28	0.17	0.54	751	0.54
*Std OREAS 520	1.39	77	0.08	0.93	105	0.39
*Std OREAS 601	1.40	24	0.05	1.01	220	0.17
*Rep 3508725	1.18	27	0.14	0.23	788	0.62
*Std OREAS 520	1.46	77	0.07	0.98	113	0.41
*Std OREAS 601	1.43	25	0.05	1.05	233	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.7	<0.01
*Std OREAS 601	1.42	24	0.05	1.02	216	0.17
*Rep 3508776	1.11	22	0.14	0.33	550	0.55
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.6	<0.01
*Std OREAS 520	1.43	72	0.08	0.94	103	0.38

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508716	465	136	15.6	1.59	2	0.6
3508717	404	116	14.6	0.55	3	0.8
3508718	507	96	19.3	0.39	1	0.5
3508719	481	94	19.9	0.45	2	0.3
3508720	119	67	84.7	1.22	84	3.0
3508721	524	100	20.0	0.34	1	0.3
3508722	439	115	14.0	0.76	3	0.7
3508723	464	113	15.2	0.55	5	0.7
3508724	480	102	16.5	0.47	2	0.7
3508725	494	115	14.7	0.63	2	0.6
3508726	516	105	11.9	0.34	<1	0.3
3508727	477	123	8.9	0.67	2	0.9
3508728	626	136	15.5	0.68	<1	0.5
3508729	582	136	17.5	0.41	<1	0.6
3508730	3	4	1.5	0.06	<1	<0.1
3508731	606	170	14.9	0.44	<1	0.5
3508732	546	121	14.5	0.34	1	0.7
3508733	579	122	16.8	0.31	2	0.4
3508734	576	153	16.8	0.58	<1	0.9
3508735	556	156	16.7	0.60	<1	1.0
3508736	737	106	19.4	0.18	<1	0.4
3508737	693	102	17.6	0.23	2	0.4
3508738	501	94	15.4	0.15	<1	0.5
3508739	526	92	14.5	0.12	<1	0.5
3508740	125	76	75.9	0.43	22	3.4
3508741	752	128	18.4	0.22	<1	0.5
3508742	757	144	22.2	1.16	<1	0.3
3508743	563	117	17.7	<0.02	<1	<0.1
3508744	307	111	33.4	0.31	3	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508745	702	133	22.7	0.38	<1	0.4
3508746	613	110	18.0	0.28	1	0.4
3508747	492	148	15.4	2.40	4	0.3
3508748	308	170	11.7	4.68	7	0.7
3508749	503	183	15.6	0.39	<1	2.1
3508750	3	3	1.3	0.05	<1	<0.1
3508751	523	110	13.9	0.34	<1	0.5
3508752	515	107	16.8	0.26	<1	0.3
3508753	511	104	13.0	0.29	1	0.3
3508754	454	107	11.1	0.37	2	0.3
3508755	432	129	15.1	0.25	1	0.6
3508756	527	125	16.9	0.60	2	0.4
3508757	492	112	15.2	0.53	2	0.3
3508758	498	102	14.7	0.28	4	0.4
3508759	558	116	16.0	0.28	<1	0.3
3508760	122	74	69.2	0.48	19	4.3
3508761	555	130	17.4	0.14	<1	0.3
3508762	601	153	19.2	0.29	<1	0.9
3508763	570	134	17.4	0.17	<1	0.7
3508764	629	155	16.1	0.40	<1	1.4
3508765	622	131	17.2	0.16	4	0.5
3508766	586	152	14.8	0.25	10	0.8
3508767	602	147	15.6	0.20	9	0.3
3508768	667	177	16.6	0.16	6	1.2
3508769	591	136	16.0	0.22	5	0.5
3508770	4	20	1.4	0.06	<1	<0.1
3508771	658	118	17.4	0.22	5	0.3
3508772	558	122	16.2	0.26	4	0.3
3508773	488	117	16.3	0.28	5	0.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508774	486	134	16.6	0.33	4	0.7
3508775	478	129	16.8	0.32	4	0.7
3508776	487	129	18.0	0.22	4	0.4
3508777	461	141	16.3	0.25	6	0.5
3508778	462	120	17.7	0.23	5	0.4
3508779	519	137	18.1	0.47	7	0.9
3508780	122	73	73.4	0.33	22	3.3
3508781	615	157	17.2	0.24	5	1.6
3508782	565	122	14.9	0.26	4	0.2
3508783	549	138	17.7	0.15	3	0.9
3508784	536	218	13.4	1.14	5	3.2
3508785	558	182	17.3	0.28	5	0.6
3508786	559	118	16.8	0.47	4	0.3
3508787	520	112	18.6	0.24	3	0.3
3508788	519	114	19.4	0.20	3	0.3
3508789	529	111	17.4	0.15	5	0.3
3508790	2	4	1.2	0.02	<1	<0.1
3508791	569	142	18.5	0.16	4	0.5
*Dup 3508754	467	109	11.3	0.43	2	0.3
*Std OREAS 520	262	22	135	0.42	164	1.2
*Std OREAS 601	27	1267	157	51.40	321	2.3
*Rep 3508725	507	117	14.7	0.59	4	0.6
*Std OREAS 520	269	22	136	0.41	148	1.2
*Std OREAS 601	29	1217	162	52.10	307	2.4
*Blk BLANK	<2	1	<0.5	0.03	<1	<0.1
*Std OREAS 601	26	1198	154	51.61	309	2.4
*Rep 3508776	427	118	16.4	0.27	5	0.4
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Std OREAS 520	253	21	130	0.37	145	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508716	0.08	0.56	16.03	44.4	<1	18.9
3508717	0.07	0.43	16.05	43.2	<1	18.7
3508718	<0.04	0.19	12.25	48.7	<1	18.5
3508719	<0.04	0.22	10.81	48.1	<1	18.2
3508720	1.39	0.61	72.06	16.4	11	17.4
3508721	<0.04	0.25	9.07	50.5	<1	18.7
3508722	0.14	0.47	9.71	45.0	5	18.7
3508723	0.13	0.29	10.17	50.8	1	20.1
3508724	0.05	0.28	10.37	47.3	<1	17.9
3508725	<0.04	0.30	9.11	53.2	<1	19.3
3508726	<0.04	0.20	9.70	47.1	<1	19.8
3508727	0.18	0.32	10.44	40.9	3	20.2
3508728	0.05	0.41	8.12	54.5	<1	20.0
3508729	0.04	0.36	7.88	51.0	<1	20.0
3508730	<0.04	0.02	1.15	1.7	<1	0.2
3508731	0.06	0.33	7.59	51.2	<1	20.7
3508732	0.04	0.35	6.99	51.2	<1	22.2
3508733	0.07	0.21	7.57	57.0	<1	21.0
3508734	0.07	0.52	7.62	48.4	<1	20.8
3508735	0.07	0.55	7.75	48.2	<1	20.8
3508736	<0.04	0.20	7.91	61.1	<1	21.3
3508737	<0.04	0.20	7.67	56.8	<1	21.2
3508738	<0.04	0.15	6.08	48.8	<1	21.1
3508739	<0.04	0.15	7.06	45.1	10	21.1
3508740	0.66	0.30	72.10	14.7	12	18.1
3508741	0.05	0.19	8.37	60.9	<1	20.3
3508742	0.06	0.46	7.84	66.0	<1	18.1
3508743	<0.04	<0.02	<0.05	<0.1	<1	0.2
3508744	0.04	0.20	24.58	32.8	2	18.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508745	0.05	0.28	7.29	57.6	<1	21.6
3508746	<0.04	0.19	8.57	51.6	<1	21.4
3508747	0.11	1.00	6.51	64.6	<1	20.5
3508748	0.25	1.90	6.66	126	<1	17.5
3508749	0.09	0.47	5.87	53.5	<1	21.8
3508750	<0.04	<0.02	0.71	2.3	<1	0.6
3508751	<0.04	0.17	4.71	54.9	<1	21.4
3508752	<0.04	0.15	5.58	53.7	<1	19.9
3508753	<0.04	0.17	5.42	48.7	<1	20.1
3508754	0.07	0.19	7.04	46.3	<1	20.4
3508755	0.07	0.17	6.43	46.1	<1	19.8
3508756	0.06	0.31	6.08	52.0	<1	19.1
3508757	0.04	0.24	5.76	51.3	<1	21.5
3508758	0.04	0.17	5.32	46.8	<1	21.1
3508759	<0.04	0.18	4.87	59.2	<1	22.3
3508760	0.74	0.32	55.56	15.4	11	20.8
3508761	0.04	0.17	5.32	53.5	<1	22.2
3508762	0.09	0.22	6.75	55.5	<1	21.6
3508763	<0.04	0.21	7.00	56.9	<1	21.6
3508764	0.06	0.30	6.05	63.5	<1	22.5
3508765	<0.04	0.25	7.65	53.5	<1	19.7
3508766	0.04	0.27	7.33	51.7	1	20.7
3508767	0.10	0.14	9.79	54.9	1	19.7
3508768	0.08	0.20	7.60	51.8	1	20.9
3508769	0.05	0.18	7.83	53.2	<1	19.8
3508770	<0.04	0.08	1.25	1.5	<1	0.4
3508771	0.04	0.18	9.51	56.7	<1	20.2
3508772	0.05	0.19	9.15	51.6	1	21.2
3508773	0.09	0.15	10.01	51.5	1	20.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508774	0.09	0.16	10.54	50.4	2	20.0
3508775	0.09	0.16	10.38	50.6	2	20.0
3508776	0.04	0.19	11.73	48.0	<1	19.6
3508777	0.05	0.17	12.49	44.5	1	20.6
3508778	<0.04	0.18	10.53	49.6	<1	19.5
3508779	0.07	0.26	11.19	53.0	1	19.2
3508780	0.64	0.31	73.77	16.4	15	18.8
3508781	0.07	0.33	10.96	50.2	2	20.9
3508782	<0.04	0.18	8.99	47.1	<1	20.3
3508783	0.05	0.16	9.83	41.3	1	18.6
3508784	0.53	0.67	14.66	95.8	4	19.3
3508785	0.15	0.19	11.12	59.8	1	22.7
3508786	<0.04	0.19	8.44	52.4	<1	21.6
3508787	<0.04	0.14	7.58	52.2	<1	22.0
3508788	<0.04	0.19	9.15	59.3	<1	21.8
3508789	<0.04	0.16	9.01	53.7	<1	21.8
3508790	<0.04	<0.02	1.01	1.7	<1	0.2
3508791	<0.04	0.18	9.43	53.7	1	20.9
*Dup 3508754	0.07	0.18	6.58	46.1	<1	19.5
*Std OREAS 520	2.89	0.09	78.60	202	<1	19.9
*Std OREAS 601	19.71	7.67	58.83	5.9	7	21.7
*Rep 3508725	<0.04	0.31	9.05	53.9	<1	20.0
*Std OREAS 520	2.98	0.07	83.81	193	<1	17.9
*Std OREAS 601	20.18	8.31	62.90	5.3	7	20.3
*Blk BLANK	<0.04	<0.02	<0.05	0.1	<1	<0.1
*Std OREAS 601	19.30	8.61	66.17	5.6	9	20.3
*Rep 3508776	0.04	0.18	10.52	43.1	<1	17.7
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 520	2.83	0.10	82.88	189	<1	19.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508716	0.83	0.09	7.7	0.26	2.58	3.1
3508717	0.73	0.07	8.2	0.24	3.90	2.1
3508718	0.93	0.07	5.4	0.25	2.90	1.2
3508719	0.93	0.08	4.7	0.23	3.37	1.3
3508720	2.73	0.10	36.1	0.38	355	21.4
3508721	1.00	0.08	3.8	0.24	2.25	1.5
3508722	0.69	0.08	4.4	0.20	5.06	1.4
3508723	0.73	0.07	4.8	0.20	2.77	1.4
3508724	0.80	0.07	4.6	0.20	1.20	1.0
3508725	0.69	0.07	3.9	0.19	1.21	1.0
3508726	0.66	0.08	4.4	0.18	2.15	0.7
3508727	0.47	0.08	5.3	0.16	6.62	0.6
3508728	0.79	0.08	3.6	0.19	2.39	1.0
3508729	0.87	0.09	3.4	0.21	2.83	1.2
3508730	0.04	<0.02	1.3	0.03	0.09	0.1
3508731	0.78	0.09	3.4	0.19	2.55	1.3
3508732	0.70	0.08	3.2	0.16	1.49	1.4
3508733	0.85	0.10	3.3	0.19	2.24	1.6
3508734	0.80	0.10	3.4	0.18	2.79	1.8
3508735	0.80	0.11	3.5	0.19	2.59	1.8
3508736	0.97	0.10	3.2	0.23	2.28	1.8
3508737	0.92	0.09	3.2	0.19	3.46	1.8
3508738	0.72	0.08	2.8	0.16	2.80	1.3
3508739	0.75	0.07	3.2	0.17	4.90	1.8
3508740	2.52	0.08	36.2	0.40	102	19.1
3508741	0.97	0.10	3.4	0.24	2.39	1.9
3508742	1.16	0.13	2.8	0.28	1.83	0.7
3508743	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
3508744	1.28	0.05	12.5	0.24	1.53	7.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508745	1.10	0.10	2.8	0.24	2.95	1.5
3508746	0.91	0.08	3.7	0.20	1.80	1.6
3508747	0.77	0.12	2.5	0.20	4.17	0.9
3508748	0.63	0.06	2.6	0.18	1.57	0.4
3508749	0.80	0.07	2.6	0.19	3.19	1.1
3508750	0.03	<0.02	0.8	0.03	<0.05	0.1
3508751	0.69	0.06	1.8	0.18	1.91	0.7
3508752	0.85	0.07	2.0	0.21	2.46	1.0
3508753	0.63	0.06	2.1	0.17	3.16	0.7
3508754	0.58	0.07	2.8	0.18	2.57	0.6
3508755	0.74	0.07	2.6	0.19	2.58	1.2
3508756	0.82	0.08	2.3	0.21	2.11	1.2
3508757	0.76	0.09	2.2	0.19	3.44	1.0
3508758	0.75	0.07	2.1	0.18	2.69	1.0
3508759	0.81	0.08	1.8	0.20	1.89	1.0
3508760	2.40	0.07	25.1	0.39	97.63	19.3
3508761	0.85	0.07	1.9	0.21	1.29	1.4
3508762	0.95	0.08	2.6	0.23	1.15	2.1
3508763	0.90	0.07	2.8	0.23	1.76	2.1
3508764	0.89	0.07	2.5	0.20	1.06	2.1
3508765	0.85	0.08	2.9	0.20	2.07	1.7
3508766	0.68	0.07	3.0	0.17	1.16	1.4
3508767	0.77	0.08	3.9	0.22	1.53	1.3
3508768	0.79	0.08	3.0	0.19	0.70	1.8
3508769	0.79	0.08	3.2	0.19	2.34	1.5
3508770	0.04	<0.02	1.5	0.02	0.09	0.1
3508771	0.87	0.08	3.7	0.21	1.62	1.9
3508772	0.79	0.07	3.9	0.18	1.67	1.9
3508773	0.74	0.06	4.4	0.17	6.24	1.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508774	0.80	0.07	4.9	0.18	9.25	2.0
3508775	0.74	0.07	4.7	0.18	9.38	2.0
3508776	0.81	0.07	5.0	0.20	2.88	1.9
3508777	0.72	0.07	5.7	0.17	5.54	1.8
3508778	0.85	0.07	4.6	0.18	1.90	1.7
3508779	0.77	0.09	4.9	0.19	3.57	1.9
3508780	2.37	0.08	34.7	0.36	100	20.8
3508781	0.79	0.10	5.2	0.19	2.34	2.1
3508782	0.72	0.07	3.8	0.17	2.13	1.0
3508783	0.75	0.07	4.3	0.17	6.12	1.8
3508784	0.68	0.13	8.6	0.17	8.55	2.2
3508785	0.81	0.09	5.2	0.20	1.83	1.6
3508786	0.80	0.09	3.5	0.19	1.95	1.3
3508787	0.90	0.08	3.2	0.20	2.29	1.3
3508788	0.88	0.09	3.8	0.20	7.13	1.8
3508789	0.81	0.09	3.9	0.19	4.02	1.5
3508790	0.03	<0.02	1.2	0.02	<0.05	0.1
3508791	0.88	0.08	4.2	0.20	6.63	2.0
*Dup 3508754	0.53	0.06	2.6	0.17	2.39	0.6
*Std OREAS 520	3.86	0.13	80.4	0.37	68.59	5.4
*Std OREAS 601	4.48	1.92	31.1	0.11	4.01	14.0
*Rep 3508725	0.67	0.08	3.9	0.19	1.21	1.1
*Std OREAS 520	3.81	0.12	86.1	0.38	65.70	5.1
*Std OREAS 601	4.57	1.82	31.3	0.10	4.18	13.4
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.20	1.80	30.8	0.09	4.00	14.0
*Rep 3508776	0.73	0.07	4.5	0.17	2.58	1.7
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 520	3.64	0.11	79.0	0.35	64.34	5.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508716	3.2	38.2	38.1	<2	1.09	1.2
3508717	3.3	40.9	35.2	<2	0.97	0.7
3508718	2.0	32.7	44.1	<2	1.05	0.8
3508719	2.2	31.0	47.4	<2	0.98	0.7
3508720	20.3	182	13.0	4	3.48	3.6
3508721	2.0	28.2	48.7	<2	0.88	0.8
3508722	8.5	58.3	45.8	<2	1.40	0.7
3508723	7.2	39.3	40.4	<2	1.44	0.7
3508724	4.9	21.1	39.3	<2	1.04	0.7
3508725	3.4	26.4	40.7	<2	1.23	0.8
3508726	3.2	34.1	36.3	<2	1.36	0.8
3508727	13.3	93.7	32.3	<2	1.86	0.8
3508728	6.4	35.1	38.4	<2	1.09	0.8
3508729	3.3	28.8	46.8	<2	0.77	0.9
3508730	0.9	0.5	<0.5	<2	0.07	<0.3
3508731	4.1	30.1	44.6	<2	0.91	1.1
3508732	3.6	33.5	39.8	<2	0.99	1.0
3508733	3.4	28.9	41.0	<2	1.43	1.3
3508734	3.6	30.8	36.3	<2	1.42	1.2
3508735	3.7	30.1	38.0	<2	1.40	1.3
3508736	2.0	23.7	54.5	<2	0.92	1.1
3508737	2.3	24.5	47.9	<2	1.33	1.2
3508738	2.2	33.6	37.4	<2	0.74	1.0
3508739	2.3	38.9	37.1	<2	0.62	1.0
3508740	21.4	207	14.4	<2	2.30	3.4
3508741	2.1	26.1	54.1	<2	0.83	1.2
3508742	1.9	13.3	69.0	<2	0.35	1.2
3508743	<0.5	<0.2	<0.5	<2	<0.05	<0.3
3508744	6.1	48.4	28.3	<2	1.91	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508745	2.6	33.1	55.7	<2	1.13	1.2
3508746	2.6	36.1	47.8	<2	1.18	0.9
3508747	3.4	32.3	42.2	8	1.12	0.9
3508748	4.8	23.7	37.5	22	1.13	0.5
3508749	3.6	28.1	39.5	<2	2.27	0.8
3508750	0.7	0.3	<0.5	<2	<0.05	<0.3
3508751	2.5	32.0	39.5	<2	0.74	0.6
3508752	1.9	26.6	43.9	<2	0.57	0.7
3508753	1.9	31.5	37.2	<2	0.68	0.7
3508754	2.3	39.6	35.8	<2	1.03	0.7
3508755	5.8	39.4	37.6	<2	0.88	0.8
3508756	2.4	24.6	42.6	<2	1.32	0.9
3508757	2.3	30.3	40.2	<2	1.49	1.0
3508758	2.5	37.0	37.5	<2	2.46	1.0
3508759	2.3	22.7	43.3	<2	0.96	1.0
3508760	22.9	175	13.1	<2	1.98	3.1
3508761	2.5	23.8	43.1	<2	0.81	0.8
3508762	3.0	18.7	45.1	<2	1.50	1.2
3508763	2.5	24.5	44.1	<2	1.17	0.9
3508764	3.1	28.9	42.5	<2	0.96	0.9
3508765	2.5	26.7	46.9	<2	0.93	1.0
3508766	3.4	38.2	37.8	<2	1.55	0.8
3508767	3.1	40.9	43.3	<2	1.94	0.8
3508768	2.4	40.8	42.8	<2	1.31	0.9
3508769	2.1	34.0	43.4	<2	0.87	0.9
3508770	3.0	0.3	<0.5	<2	<0.05	<0.3
3508771	2.0	21.8	44.8	<2	1.06	1.1
3508772	2.0	38.6	36.2	<2	1.11	0.9
3508773	2.3	40.2	32.5	<2	1.04	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508774	4.3	45.5	35.6	<2	0.92	1.0
3508775	4.6	44.5	35.3	<2	0.89	1.0
3508776	2.5	36.0	34.4	<2	0.77	0.8
3508777	3.4	40.1	31.7	<2	1.04	1.0
3508778	2.4	35.1	36.2	<2	1.48	0.9
3508779	3.2	38.2	36.8	<2	1.65	0.9
3508780	20.1	166	14.6	2	2.21	3.5
3508781	4.5	44.0	41.9	<2	1.01	1.1
3508782	2.5	34.2	39.6	<2	1.02	0.9
3508783	2.1	38.6	32.8	<2	0.47	0.9
3508784	16.6	79.9	34.5	8	0.39	1.9
3508785	5.5	46.8	43.8	<2	0.81	1.1
3508786	2.3	35.6	44.6	<2	0.75	1.2
3508787	2.5	35.2	46.4	<2	0.76	0.9
3508788	2.2	30.8	48.4	<2	0.91	1.0
3508789	2.4	37.4	44.8	<2	1.04	1.1
3508790	3.5	0.2	<0.5	<2	0.05	<0.3
3508791	3.0	36.2	45.1	<2	1.20	0.9
*Dup 3508754	2.2	37.4	34.2	<2	0.98	0.7
*Std OREAS 520	7.0	113	18.1	<2	3.40	4.9
*Std OREAS 601	323	97.5	5.2	12	32.50	4.5
*Rep 3508725	3.3	27.9	43.3	<2	1.25	0.8
*Std OREAS 520	6.3	115	17.7	<2	3.18	4.6
*Std OREAS 601	318	99.0	5.1	12	32.34	4.4
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	298	88.2	5.3	10	28.40	4.0
*Rep 3508776	2.3	33.1	31.2	<2	0.69	0.7
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.1	108	16.5	<2	2.83	4.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508716	0.17	0.56	0.12	0.4	0.16	0.28
3508717	0.12	0.52	0.09	0.4	0.17	0.46
3508718	0.08	0.56	0.08	0.3	0.14	0.19
3508719	0.08	0.51	0.07	0.4	0.14	0.18
3508720	1.50	0.81	0.37	18.4	0.95	4.98
3508721	0.09	0.50	0.13	0.4	0.11	0.20
3508722	0.08	0.44	0.10	0.3	0.24	0.24
3508723	0.08	0.45	<0.05	0.3	0.19	0.26
3508724	0.07	0.47	0.09	0.3	0.09	0.28
3508725	0.06	0.45	<0.05	<0.2	0.11	0.23
3508726	0.07	0.46	0.08	<0.2	0.14	0.11
3508727	<0.05	0.41	0.07	<0.2	0.42	0.30
3508728	0.06	0.43	0.10	0.2	0.14	0.17
3508729	0.07	0.48	0.10	0.3	0.11	0.21
3508730	<0.05	<0.05	<0.05	<0.2	<0.02	0.14
3508731	0.09	0.44	0.06	0.2	0.12	0.34
3508732	0.08	0.37	<0.05	0.2	0.14	0.36
3508733	0.10	0.43	0.10	0.3	0.13	0.24
3508734	0.10	0.39	0.08	0.4	0.13	1.36
3508735	0.10	0.41	0.10	0.4	0.13	1.66
3508736	0.10	0.52	0.06	0.4	0.10	0.20
3508737	0.10	0.46	0.07	0.4	0.10	0.29
3508738	0.08	0.34	<0.05	0.2	0.14	0.15
3508739	0.11	0.37	0.13	0.3	0.16	0.20
3508740	1.45	0.83	0.26	20.0	1.01	5.62
3508741	0.11	0.52	0.09	0.4	0.10	0.23
3508742	<0.05	0.60	0.07	0.4	0.07	0.20
3508743	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
3508744	0.36	0.55	<0.05	2.5	0.17	1.22

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508745	0.10	0.50	0.13	0.4	0.12	0.23
3508746	0.10	0.46	0.08	0.3	0.13	0.18
3508747	0.06	0.42	0.16	<0.2	0.15	0.11
3508748	<0.05	0.41	0.18	<0.2	0.14	0.20
3508749	0.06	0.37	0.11	0.2	0.12	0.54
3508750	<0.05	<0.05	<0.05	<0.2	<0.02	0.14
3508751	<0.05	0.37	<0.05	<0.2	0.15	0.14
3508752	0.05	0.42	<0.05	0.2	0.11	0.13
3508753	<0.05	0.36	<0.05	<0.2	0.13	0.10
3508754	<0.05	0.41	0.06	<0.2	0.16	0.11
3508755	0.06	0.39	0.07	0.3	0.16	0.24
3508756	0.06	0.42	0.10	0.3	0.11	0.23
3508757	0.05	0.40	0.08	0.2	0.14	0.15
3508758	0.05	0.37	0.08	0.2	0.16	0.14
3508759	0.05	0.39	0.08	0.2	0.10	0.14
3508760	1.33	0.76	0.30	20.7	0.94	5.59
3508761	0.07	0.39	0.16	0.3	0.11	0.16
3508762	0.10	0.45	0.15	0.6	0.09	0.57
3508763	0.10	0.46	0.13	0.5	0.11	0.37
3508764	0.09	0.42	0.13	0.4	0.13	0.53
3508765	0.08	0.46	<0.05	0.4	0.11	0.17
3508766	0.05	0.39	<0.05	0.2	0.16	0.23
3508767	0.06	0.52	0.10	0.3	0.18	0.15
3508768	0.07	0.43	<0.05	0.3	0.15	0.28
3508769	0.07	0.45	<0.05	0.3	0.13	0.17
3508770	<0.05	<0.05	<0.05	<0.2	<0.02	0.09
3508771	0.09	0.49	<0.05	0.4	0.08	0.20
3508772	0.09	0.42	0.06	0.3	0.15	0.16
3508773	0.08	0.41	0.10	0.3	0.18	0.30

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508774	0.09	0.44	0.07	0.4	0.18	0.41
3508775	0.09	0.43	<0.05	0.4	0.18	0.40
3508776	0.09	0.46	<0.05	0.4	0.13	0.22
3508777	0.09	0.45	0.07	0.4	0.15	0.40
3508778	0.09	0.45	<0.05	0.4	0.13	0.22
3508779	0.08	0.45	0.06	0.4	0.16	0.43
3508780	1.27	0.77	0.26	19.8	0.87	4.91
3508781	0.07	0.44	<0.05	0.4	0.17	0.84
3508782	0.05	0.43	<0.05	0.2	0.12	0.19
3508783	0.07	0.42	<0.05	0.3	0.15	0.67
3508784	0.17	0.47	0.18	0.4	0.41	2.15
3508785	0.13	0.52	0.11	0.4	0.21	0.36
3508786	0.10	0.50	0.07	0.3	0.14	0.18
3508787	0.09	0.50	<0.05	0.3	0.12	0.15
3508788	0.11	0.52	<0.05	0.3	0.11	0.15
3508789	0.10	0.49	<0.05	0.3	0.13	0.16
3508790	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508791	0.12	0.53	<0.05	0.4	0.16	0.31
*Dup 3508754	<0.05	0.38	0.09	<0.2	0.16	0.11
*Std OREAS 520	0.44	0.72	0.47	10.4	0.26	18.17
*Std OREAS 601	1.07	0.59	15.50	11.5	1.25	4.06
*Rep 3508725	0.06	0.46	<0.05	<0.2	0.11	0.23
*Std OREAS 520	0.39	0.67	0.42	10.4	0.27	18.39
*Std OREAS 601	0.99	0.56	15.61	11.7	1.25	4.10
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.84	0.51	15.38	10.4	1.08	3.58
*Rep 3508776	0.08	0.41	<0.05	0.4	0.12	0.20
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.33	0.62	0.32	10.0	0.22	17.52

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508716	0.7	17.6	1.7
3508717	0.7	16.6	1.6
3508718	1.2	16.8	1.6
3508719	0.6	15.9	1.5
3508720	3.7	24.3	2.5
3508721	0.5	15.9	1.6
3508722	1.7	13.7	1.3
3508723	1.8	14.9	1.3
3508724	0.8	14.2	1.3
3508725	0.8	14.0	1.2
3508726	0.8	13.6	1.3
3508727	1.4	12.3	1.1
3508728	1.0	13.2	1.3
3508729	0.8	14.5	1.4
3508730	<0.1	2.4	0.1
3508731	0.8	13.9	1.3
3508732	0.5	12.0	1.1
3508733	0.6	13.2	1.3
3508734	0.8	12.5	1.2
3508735	0.8	12.6	1.2
3508736	0.5	16.2	1.5
3508737	0.6	14.5	1.4
3508738	0.4	10.7	1.0
3508739	0.6	11.3	1.1
3508740	4.3	25.8	2.5
3508741	0.9	15.7	1.6
3508742	0.1	18.4	1.9
3508743	<0.1	<0.1	<0.1
3508744	0.8	16.8	1.6
3508745	0.9	15.5	1.5
3508746	0.7	14.3	1.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508747	0.6	13.8	1.2
3508748	0.5	12.3	1.1
3508749	0.9	11.9	1.1
3508750	<0.1	2.1	0.1
3508751	0.6	11.5	1.1
3508752	0.5	13.9	1.2
3508753	0.6	11.7	1.0
3508754	0.9	13.1	1.1
3508755	1.0	13.0	1.2
3508756	0.7	14.2	1.2
3508757	1.0	13.3	1.1
3508758	0.8	12.7	1.1
3508759	0.5	13.7	1.2
3508760	4.3	25.2	2.3
3508761	0.6	14.0	1.2
3508762	1.9	15.4	1.4
3508763	2.1	15.6	1.4
3508764	0.7	14.2	1.2
3508765	0.4	14.6	1.3
3508766	0.9	12.9	1.1
3508767	2.1	15.9	1.3
3508768	1.0	13.9	1.2
3508769	0.8	14.2	1.2
3508770	<0.1	2.6	0.2
3508771	0.7	15.9	1.3
3508772	0.9	13.5	1.1
3508773	1.1	12.7	1.1
3508774	1.4	14.0	1.2
3508775	1.3	13.6	1.1
3508776	0.9	14.4	1.2
3508777	1.0	13.6	1.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(229-304)
Number of Samples 76

ANALYSIS REPORT BBM20-05252

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508778	0.8	14.0	1.2
3508779	4.2	14.0	1.2
3508780	4.5	24.9	2.2
3508781	0.9	14.4	1.2
3508782	1.2	13.1	1.1
3508783	0.8	13.1	1.1
3508784	1.6	15.6	1.3
3508785	2.0	16.3	1.5
3508786	0.9	15.2	1.4
3508787	0.8	15.4	1.4
3508788	0.7	16.6	1.5
3508789	0.7	15.4	1.3
3508790	<0.1	2.2	0.1
3508791	0.8	16.2	1.5
*Dup 3508754	0.8	12.8	1.0
*Std OREAS 520	47.1	22.9	2.5
*Std OREAS 601	5.7	12.2	0.7
*Rep 3508725	0.6	14.4	1.2
*Std OREAS 520	50.3	21.3	2.3
*Std OREAS 601	5.9	11.7	0.7
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.4	11.3	0.6
*Rep 3508776	0.8	12.5	1.1
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	43.4	20.3	2.0

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05253

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO#M24987	Date Received	21-Oct-2020
Submission Number (305-329)	*BBY* MAX20_Core_16/ 329 Cores	Date Analysed	24-Oct-2020 - 05-Nov-2020
		Date Completed	05-Nov-2020
Number of Samples	25	SGS Order Number	BBM20-05253

Methods Summary

Number of Sample	Method Code	Description
25	G_WGH_KG	Weight of samples received
23	G_PRP	Combined Sample Preparation
25	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
25	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
25	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
25	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(305-329)
Number of Samples 25

ANALYSIS REPORT BBM20-05253

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508792	5.68	<5	6.80	255	9.28	47
3508793	5.59	11	7.74	343	8.80	48
3508794	5.49	7	6.34	192	9.62	38
3508795	5.77	5	7.11	305	9.22	42
3508796	6.02	<5	5.35	191	9.51	43
3508797	5.55	15	6.37	259	9.52	52
3508798	5.77	10	5.59	162	10.68	40
3508799	5.78	22	7.39	187	9.57	49
3508800	0.13	302	8.65	1378	2.79	20
3508801	5.34	14	7.54	229	9.36	59
3508802	5.48	18	6.72	257	8.50	26
3508803	5.73	5	7.00	287	8.99	44
3508804	5.27	10	7.59	478	8.40	43
3508805	5.32	16	6.57	339	9.61	97
3508806	4.94	9	7.34	338	9.28	75
3508807	5.03	8	6.63	266	8.54	35
3508808	5.35	11	7.78	582	7.14	23
3508809	3.66	13	7.01	517	7.20	24
3508810	1.11	<5	0.09	13	>15.00	1
3508811	4.01	5	8.01	514	7.38	16
3508812	5.04	10	6.79	355	8.17	25
3508813	4.19	9	6.60	300	7.99	57
3508814	4.10	16	5.61	294	6.55	44
3508815	-	17	5.71	289	6.58	49
3508816	5.43	<5	6.53	337	9.27	69
*Std SL76	-	6040	-	-	-	-
*Rep 3508812	-	17	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OXG123	-	983	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(305-329)
Number of Samples 25

ANALYSIS REPORT BBM20-05253

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Blk BLANK	-	-	0.01	<1	0.02	<1
*Rep 3508806	-	-	7.24	335	9.18	78
*Std OREAS 520	-	-	5.84	821	3.91	34
*Std OREAS 601	-	-	6.08	1007	1.22	37

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508792	102	11.56	0.90	30	4.59	1891
3508793	110	11.24	1.28	31	4.34	1721
3508794	281	12.07	0.69	24	4.90	2099
3508795	109	11.75	1.08	31	4.81	1887
3508796	109	13.20	0.66	22	5.12	2126
3508797	206	12.25	0.83	27	5.12	2153
3508798	227	12.13	0.59	21	5.14	2147
3508799	310	11.08	0.88	24	4.83	1774
3508800	2339	5.77	3.92	14	1.24	624
3508801	301	10.80	1.00	23	4.82	1683
3508802	466	12.08	0.94	20	4.60	1803
3508803	102	11.80	1.13	23	4.52	1801
3508804	118	11.00	1.53	26	4.47	1954
3508805	171	10.53	1.27	36	5.18	1910
3508806	138	10.52	1.43	33	5.02	1853
3508807	281	10.76	1.02	23	4.30	2213
3508808	334	10.29	1.89	37	3.84	1950
3508809	468	10.54	1.64	39	3.81	1998
3508810	4.1	0.24	0.02	1	2.66	188

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(305-329)
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ANALYSIS REPORT BBM20-05253

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508811	473	9.91	1.46	32	3.60	1946
3508812	617	10.46	1.45	20	3.81	2440
3508813	282	13.01	1.56	33	4.53	2778
3508814	1270	11.58	1.75	29	3.76	2851
3508815	1325	11.98	1.77	29	3.88	2951
3508816	138	12.23	1.45	31	4.95	2430
*Blk BLANK	0.8	0.02	<0.01	<1	<0.01	3
*Rep 3508806	136	10.41	1.40	33	5.01	1831
*Std OREAS 520	3004	>15.00	3.59	19	1.18	2300
*Std OREAS 601	992	2.51	2.08	22	0.38	470

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508792	0.89	29	0.10	0.21	594	0.68
3508793	1.00	28	0.08	0.19	565	0.65
3508794	0.85	32	0.08	0.60	530	0.71
3508795	0.94	29	0.08	0.24	554	0.68
3508796	0.67	31	0.06	0.18	539	0.78
3508797	0.94	30	0.07	0.34	529	0.74
3508798	0.70	30	0.08	0.48	566	0.74
3508799	0.72	30	0.12	0.62	632	0.63
3508800	3.11	13	0.12	0.29	524	0.31
3508801	0.89	30	0.11	0.74	586	0.61
3508802	1.05	32	0.06	1.22	507	0.72
3508803	0.89	30	0.05	0.20	533	0.68
3508804	1.18	28	0.06	0.22	557	0.63

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(305-329)
Number of Samples 25

ANALYSIS REPORT BBM20-05253

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508805	0.99	36	0.04	0.11	505	0.59
3508806	0.87	33	0.06	0.17	517	0.58
3508807	1.71	25	0.09	0.86	510	0.63
3508808	1.92	23	0.15	0.46	561	0.61
3508809	2.27	26	0.09	0.50	543	0.62
3508810	0.04	<1	<0.01	0.01	77.7	<0.01
3508811	2.07	27	0.10	1.02	715	0.65
3508812	1.99	23	0.08	1.59	552	0.54
3508813	1.40	34	0.11	0.96	432	0.80
3508814	2.53	29	0.13	2.56	257	0.58
3508815	2.52	29	0.13	2.63	256	0.59
3508816	0.79	33	0.14	0.28	549	0.72
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Rep 3508806	0.86	33	0.06	0.17	510	0.56
*Std OREAS 520	1.39	77	0.08	0.93	105	0.39
*Std OREAS 601	1.40	24	0.05	1.01	220	0.17

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508792	557	117	15.9	0.11	6	0.3
3508793	532	109	15.8	0.09	5	0.3
3508794	587	111	17.2	0.28	7	0.4
3508795	571	101	15.7	0.11	4	0.3
3508796	631	105	16.0	0.18	5	0.3
3508797	588	107	16.4	0.33	7	0.3
3508798	610	93	16.8	0.23	6	0.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(305-329)
Number of Samples 25

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Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508799	549	105	15.0	0.26	5	0.2
3508800	221	49	40.6	0.50	17	1.2
3508801	509	88	15.7	0.19	4	0.3
3508802	576	89	15.7	0.27	8	0.3
3508803	573	95	14.5	0.12	7	0.4
3508804	519	121	14.3	1.93	7	0.5
3508805	494	100	17.7	0.24	4	0.6
3508806	497	97	16.4	0.16	5	0.4
3508807	494	127	15.8	0.33	8	1.8
3508808	479	138	15.6	0.46	7	2.1
3508809	557	145	15.5	0.68	5	3.9
3508810	4	5	1.6	0.06	<1	<0.1
3508811	488	145	15.9	0.64	8	2.8
3508812	492	159	16.5	0.78	11	4.6
3508813	607	224	18.3	0.28	5	2.3
3508814	485	1220	13.8	1.24	9	7.8
3508815	481	1017	13.5	1.28	9	8.1
3508816	605	148	19.2	0.17	7	0.4
*Blk BLANK	<2	<1	<0.5	-	-	-
*Rep 3508806	475	99	16.6	0.16	6	0.4
*Std OREAS 520	262	22	135	0.42	164	1.2
*Std OREAS 601	27	1267	157	51.40	321	2.3
*Blk BLANK	-	-	-	0.04	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(305-329)
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Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508792	<0.04	0.15	9.55	54.1	<1	21.4
3508793	<0.04	0.12	8.70	48.8	<1	21.7
3508794	0.05	0.15	9.20	52.3	<1	19.6
3508795	<0.04	0.13	9.09	55.8	<1	21.6
3508796	<0.04	0.16	8.67	57.5	<1	21.4
3508797	<0.04	0.14	9.13	55.5	<1	21.0
3508798	<0.04	0.16	9.72	56.6	<1	21.1
3508799	0.05	0.20	8.52	58.8	<1	21.3
3508800	0.14	0.19	20.44	14.7	1	19.1
3508801	0.07	0.17	9.07	57.5	<1	20.7
3508802	0.12	0.15	9.25	80.3	<1	22.7
3508803	<0.04	0.11	8.33	51.3	<1	22.4
3508804	0.04	0.14	8.08	51.1	<1	22.0
3508805	<0.04	0.18	7.70	53.1	<1	20.0
3508806	<0.04	0.16	7.83	52.5	<1	20.6
3508807	0.10	0.17	10.31	47.7	<1	20.3
3508808	0.19	0.37	12.81	51.8	2	21.0
3508809	0.12	0.62	11.92	55.6	2	21.4
3508810	<0.04	0.02	1.00	2.1	<1	0.3
3508811	0.25	0.35	11.32	55.6	2	21.5
3508812	0.19	0.60	9.83	66.5	2	21.0
3508813	0.06	0.39	9.45	59.8	2	20.4
3508814	0.08	12.15	9.27	100	3	17.7
3508815	0.09	9.70	9.09	105	3	16.9
3508816	<0.04	0.20	8.58	52.5	<1	18.6
*Rep 3508806	<0.04	0.16	7.57	53.3	<1	20.9
*Std OREAS 520	2.89	0.09	78.60	202	<1	19.9
*Std OREAS 601	19.71	7.67	58.83	5.9	7	21.7
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05253

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508792	0.79	0.09	4.1	0.20	1.94	2.0
3508793	0.74	0.08	3.8	0.18	2.46	2.0
3508794	0.85	0.11	4.0	0.21	2.73	2.1
3508795	0.78	0.09	3.9	0.21	1.73	2.0
3508796	0.82	0.10	3.4	0.21	3.10	2.0
3508797	0.83	0.09	3.8	0.21	1.91	2.2
3508798	0.84	0.11	4.1	0.22	2.35	1.7
3508799	0.72	0.10	3.6	0.19	1.80	1.1
3508800	1.28	0.10	10.1	0.32	11.03	3.1
3508801	0.79	0.09	3.9	0.19	2.35	1.5
3508802	0.84	0.11	3.9	0.21	1.89	2.2
3508803	0.77	0.09	3.5	0.20	1.24	1.8
3508804	0.73	0.08	3.5	0.18	1.79	1.8
3508805	0.84	0.09	3.3	0.21	2.78	1.5
3508806	0.79	0.08	3.3	0.19	2.09	1.4
3508807	0.82	0.10	4.8	0.22	3.93	2.6
3508808	0.76	0.08	6.0	0.21	2.60	3.2
3508809	0.73	0.11	5.5	0.22	1.23	3.1
3508810	0.05	<0.02	1.2	0.02	<0.05	0.2
3508811	0.77	0.08	5.3	0.21	2.91	3.4
3508812	0.73	0.11	4.6	0.20	2.70	3.4
3508813	0.82	0.08	4.1	0.20	4.59	2.3
3508814	0.64	0.12	4.3	0.20	1.13	2.2
3508815	0.64	0.11	4.3	0.20	1.16	2.1
3508816	0.78	0.07	3.7	0.20	2.71	1.5
*Rep 3508806	0.81	0.08	3.2	0.19	1.98	1.4
*Std OREAS 520	3.86	0.13	80.4	0.37	68.59	5.4
*Std OREAS 601	4.48	1.92	31.1	0.11	4.01	14.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05253

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508792	2.7	29.9	42.7	<2	1.20	1.1
3508793	2.7	38.4	38.8	<2	1.04	1.1
3508794	3.1	21.6	46.3	<2	0.98	1.9
3508795	2.3	35.6	43.8	<2	1.03	1.5
3508796	2.2	20.7	51.5	<2	1.57	1.2
3508797	2.3	26.0	50.3	<2	1.66	1.6
3508798	2.3	18.8	53.8	<2	1.17	1.7
3508799	2.1	30.1	46.3	<2	0.49	1.2
3508800	6.5	73.6	10.5	3	0.76	2.1
3508801	2.4	34.4	41.9	2	0.80	1.3
3508802	3.4	31.8	45.4	4	1.35	1.9
3508803	2.7	39.2	46.5	<2	1.12	1.1
3508804	5.6	43.3	43.3	<2	1.22	1.0
3508805	2.7	41.9	49.7	<2	0.78	0.9
3508806	2.7	42.7	45.2	<2	1.31	1.1
3508807	10.8	29.5	40.1	<2	1.34	2.2
3508808	38.5	63.9	33.9	<2	1.14	0.9
3508809	26.4	56.9	35.5	<2	1.03	1.2
3508810	1.1	0.5	<0.5	<2	0.09	<0.3
3508811	40.9	50.7	35.7	2	1.53	1.8
3508812	24.6	51.5	31.6	3	1.76	2.4
3508813	8.0	54.2	43.9	<2	0.97	1.1
3508814	11.8	81.5	35.1	3	0.82	1.1
3508815	12.1	79.5	34.8	3	0.84	1.1
3508816	3.1	43.2	41.1	<2	1.22	1.2
*Rep 3508806	2.6	41.7	46.2	<2	1.31	1.0
*Std OREAS 520	7.0	113	18.1	<2	3.40	4.9
*Std OREAS 601	323	97.5	5.2	12	32.50	4.5
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(305-329)
Number of Samples 25

ANALYSIS REPORT BBM20-05253

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508792	0.11	0.52	<0.05	0.4	0.11	0.18
3508793	0.12	0.48	0.06	0.4	0.15	0.15
3508794	0.14	0.50	0.08	0.5	0.08	0.25
3508795	0.12	0.52	0.07	0.5	0.12	0.21
3508796	0.12	0.57	0.06	0.4	0.07	0.21
3508797	0.13	0.55	0.07	0.4	0.09	0.25
3508798	0.10	0.57	0.08	0.4	0.07	0.31
3508799	0.07	0.49	0.09	0.2	0.12	0.13
3508800	0.18	0.54	0.07	1.6	0.23	1.12
3508801	0.09	0.50	0.11	0.3	0.14	0.15
3508802	0.13	0.53	0.17	0.4	0.12	0.22
3508803	0.11	0.51	0.07	0.4	0.14	0.18
3508804	0.12	0.46	0.07	0.4	0.17	0.18
3508805	0.09	0.51	0.06	0.3	0.15	0.31
3508806	0.09	0.48	0.07	0.3	0.17	0.14
3508807	0.13	0.53	0.09	0.5	0.12	1.35
3508808	0.15	0.53	0.08	0.6	0.24	1.89
3508809	0.14	0.52	0.08	0.6	0.21	2.20
3508810	<0.05	<0.05	<0.05	<0.2	<0.02	0.10
3508811	0.16	0.50	0.06	0.6	0.19	1.76
3508812	0.15	0.43	0.05	0.7	0.24	3.34
3508813	0.10	0.54	0.09	0.5	0.23	1.82
3508814	0.07	0.47	0.12	0.6	0.39	3.95
3508815	0.07	0.46	0.12	0.6	0.39	4.26
3508816	0.10	0.51	0.09	0.4	0.15	0.23
*Rep 3508806	0.09	0.46	0.06	0.3	0.16	0.14
*Std OREAS 520	0.44	0.72	0.47	10.4	0.26	18.17
*Std OREAS 601	1.07	0.59	15.50	11.5	1.25	4.06
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO#M24987
Submission Number *BBY* MAX20_Core_16/ 329 Cores
(305-329)
Number of Samples 25

ANALYSIS REPORT BBM20-05253

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508792	0.7	15.6	1.4
3508793	0.6	14.5	1.3
3508794	1.1	15.7	1.5
3508795	0.7	15.7	1.5
3508796	0.9	17.0	1.6
3508797	1.1	17.1	1.6
3508798	1.2	17.3	1.6
3508799	0.5	14.9	1.4
3508800	1.0	19.3	2.2
3508801	0.8	15.5	1.4
3508802	0.9	16.7	1.5
3508803	0.7	16.1	1.4
3508804	0.8	14.5	1.3
3508805	0.6	15.9	1.5
3508806	0.6	15.2	1.4
3508807	1.1	16.5	1.6
3508808	1.0	16.8	1.5
3508809	0.7	16.2	1.6
3508810	<0.1	2.7	0.2
3508811	1.3	16.2	1.5
3508812	1.7	13.7	1.4
3508813	2.5	16.5	1.5
3508814	2.5	14.7	1.5
3508815	2.5	14.2	1.5
3508816	1.1	15.3	1.4
*Rep 3508806	0.6	14.8	1.3
*Std OREAS 520	47.1	22.9	2.5
*Std OREAS 601	5.7	12.2	0.7
*Blk BLANK	<0.1	<0.1	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO#M24987
Submission Number (305-329)	*BBY* MAX20_Core_16/ 329 Cores
Number of Samples	25

ANALYSIS REPORT BBM20-05253

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05298

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	26-Oct-2020
Project	MAX	Date Analysed	29-Oct-2020 - 04-Nov-2020
Submission Number	*BBY*MAX20_Core_17/ 256 Cores (1-76)	Date Completed	04-Nov-2020
		SGS Order Number	BBM20-05298
Number of Samples	76		

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
71	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508817	3.75	23	8.59	1526	4.14	41
3508818	4.73	9	8.46	1309	4.00	45
3508819	4.80	9	8.55	1440	4.45	35
3508820	0.15	222	7.74	970	2.50	75
3508821	4.97	12	8.61	1376	4.53	39
3508822	4.34	10	8.68	1132	4.78	40
3508823	5.83	9	8.00	804	6.65	37
3508824	4.79	24	8.65	991	5.65	35
3508825	5.33	10	8.03	670	6.45	38
3508826	2.60	11	7.57	657	7.17	39
3508827	5.78	<5	7.49	661	7.37	46
3508828	5.33	<5	7.55	640	7.04	58
3508829	4.77	<5	7.14	586	6.74	133
3508830	1.17	<5	0.10	8	>15.00	2
3508831	5.29	9	6.81	639	7.31	119
3508832	5.16	<5	7.21	517	7.30	58
3508833	4.59	<5	6.94	611	6.27	72
3508834	4.87	5	7.42	510	7.02	64
3508835	5.13	<5	7.23	375	8.08	66
3508836	5.88	<5	7.80	639	6.94	39
3508837	5.10	<5	7.51	615	7.20	32
3508838	4.70	<5	7.86	672	6.88	27
3508839	5.22	<5	7.35	681	6.24	77
3508840	0.15	214	7.70	965	2.50	73
3508841	4.91	<5	7.94	615	7.20	32
3508842	5.18	<5	7.63	681	6.33	26
3508843	5.24	<5	8.12	614	6.18	17
3508844	5.30	<5	7.96	547	6.54	27
3508845	4.97	<5	8.09	789	6.46	25

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508846	5.12	<5	7.94	819	6.93	26
3508847	5.13	<5	8.55	594	6.38	22
3508848	5.00	<5	8.52	707	6.36	25
3508849	3.00	6	8.25	655	6.31	28
3508850	1.21	<5	0.06	5	>15.00	<1
3508851	3.77	<5	7.78	1059	5.67	45
3508852	4.98	8	7.68	932	6.56	31
3508853	3.81	<5	7.87	853	7.63	39
3508854	3.32	<5	7.48	983	7.42	64
3508855	-	<5	7.41	1033	7.12	76
3508856	5.73	16	7.01	725	8.13	51
3508857	4.99	16	7.39	536	7.29	45
3508858	5.38	<5	7.97	516	7.90	43
3508859	5.19	6	7.75	850	7.54	42
3508860	0.15	223	7.70	1001	2.57	71
3508861	5.63	13	7.92	674	7.57	46
3508862	5.46	12	7.81	640	8.46	51
3508863	5.03	<5	7.85	706	6.36	55
3508864	5.36	8	7.53	666	6.96	73
3508865	5.25	8	7.23	638	7.51	69
3508866	3.44	<5	7.35	890	7.47	56
3508867	3.23	<5	8.00	1100	5.34	7
3508868	3.27	<5	8.76	1944	4.67	5
3508869	5.07	<5	7.16	927	5.88	49
3508870	1.30	<5	0.08	8	>15.00	2
3508871	5.09	<5	7.79	1007	7.21	58
3508872	4.64	<5	8.22	1592	5.39	10
3508873	4.58	<5	8.49	1616	5.22	3
3508874	4.71	7	8.58	1556	4.46	2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508875	5.03	6	7.94	826	5.89	27
3508876	4.50	14	8.16	1007	5.42	24
3508877	5.38	85	7.93	797	5.38	6
3508878	4.25	7	7.61	434	6.42	55
3508879	5.09	6	7.21	330	6.47	83
3508880	0.15	651	7.54	934	2.52	52
3508881	3.55	14	7.65	907	6.48	59
3508882	3.11	<5	8.12	1407	4.14	24
3508883	5.59	7	7.85	1397	4.62	32
3508884	4.56	27	8.42	1458	4.10	23
3508885	4.38	94	8.03	1517	4.31	25
3508886	4.70	18	7.85	1396	5.44	15
3508887	4.65	15	7.81	625	7.06	39
3508888	4.70	13	8.31	662	7.05	37
3508889	4.34	16	7.10	848	6.82	49
3508890	1.26	<5	0.08	9	>15.00	<1
3508891	3.49	19	7.34	657	7.51	80
3508892	5.20	6	7.27	542	7.38	82
*Dup 3508856	-	15	6.99	714	8.24	57
*Std OREAS 520	-	-	5.81	1475	3.79	30
*Std OREAS 520	-	-	5.91	1540	3.88	33
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OREAS 601	-	-	6.33	3030	1.24	32
*Rep 3508850	-	-	0.05	6	>15.00	<1
*Std OREAS 601	-	-	5.73	2373	1.22	30
*Std OREAS 520	-	-	5.83	1831	3.89	34
*Std OREAS 601	-	-	6.32	2088	1.22	41
*Rep 3508887	-	-	7.79	631	7.17	43

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (1-76)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05298

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Blk BLANK	-	-	<0.01	1	<0.01	<1
*Rep 3508824	-	27	-	-	-	-
*Std OXG123	-	970	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Blk BLANK	-	6	-	-	-	-
*Std OXG123	-	1040	-	-	-	-
*Rep 3508857	-	16	-	-	-	-
*Std SL76	-	5810	-	-	-	-
*Std GS-9B	-	8990	-	-	-	-
*Std GS-9B	-	8810	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Rep 3508886	-	19	-	-	-	-
*Std SL76	-	6090	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508817	101	6.15	2.93	10	1.92	1457
3508818	98.9	6.50	3.05	9	1.97	1305
3508819	92.9	6.15	2.82	6	2.02	1187
3508820	2732	4.42	2.63	37	1.47	514
3508821	146	6.56	2.40	11	2.20	1380
3508822	174	6.81	2.17	16	2.60	1324
3508823	128	8.11	1.42	23	3.46	1451
3508824	297	7.68	1.70	23	2.77	1381

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508825	115	8.07	1.27	22	3.46	1569
3508826	140	8.48	1.32	26	3.91	1594
3508827	114	8.42	1.36	26	4.10	1564
3508828	135	8.59	1.35	26	4.06	1489
3508829	148	8.39	1.36	26	4.73	1601
3508830	0.6	0.21	0.04	3	13.53	144
3508831	179	8.40	1.24	21	4.71	1588
3508832	134	8.51	1.06	20	4.20	1528
3508833	141	8.40	1.27	19	4.40	1596
3508834	164	8.72	1.13	23	4.13	1693
3508835	110	8.60	0.88	20	4.28	1771
3508836	156	8.11	1.19	19	3.72	1466
3508837	115	8.64	1.14	18	4.18	1596
3508838	107	8.42	1.27	21	3.92	1527
3508839	138	8.27	1.31	20	4.16	1655
3508840	2716	4.40	2.80	36	1.46	510
3508841	93.7	8.17	1.20	20	3.76	1396
3508842	133	8.25	1.30	21	3.73	1501
3508843	77.6	7.82	1.30	22	3.69	1573
3508844	94.1	8.63	1.13	23	3.69	1667
3508845	130	8.08	1.43	18	3.27	1446
3508846	146	8.35	1.50	16	3.56	1566
3508847	109	7.75	1.38	15	3.28	1385
3508848	120	7.81	1.45	21	3.25	1517
3508849	224	8.18	1.43	26	3.47	1658
3508850	<0.5	0.13	0.02	2	13.56	131
3508851	133	7.45	2.25	21	3.28	1684
3508852	91.4	7.30	2.40	15	2.70	1737
3508853	121	8.03	1.84	13	3.09	1906

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508854	169	8.89	1.94	22	3.78	2004
3508855	175	8.97	1.96	23	3.84	2017
3508856	218	9.75	2.16	22	3.69	2428
3508857	267	9.15	1.54	27	4.26	1887
3508858	101	8.25	1.35	19	3.75	1652
3508859	233	8.48	1.77	25	3.84	1798
3508860	2654	4.44	2.71	36	1.51	543
3508861	351	8.35	1.47	27	3.82	1822
3508862	352	8.29	1.38	23	3.56	1822
3508863	137	8.15	1.33	23	3.67	1713
3508864	238	9.07	1.61	29	3.99	1941
3508865	380	9.28	1.79	27	4.22	2371
3508866	203	7.47	2.25	13	3.32	1950
3508867	135	7.99	3.27	22	2.40	1887
3508868	124	5.25	5.35	16	1.71	1271
3508869	401	9.21	4.66	21	3.10	1881
3508870	0.6	0.14	0.04	2	13.81	142
3508871	128	7.42	2.74	24	3.66	2164
3508872	219	6.99	4.31	20	2.42	1665
3508873	259	6.97	4.39	15	2.09	1612
3508874	112	6.15	4.91	16	1.92	1369
3508875	145	7.41	2.55	20	2.82	1730
3508876	141	7.28	2.59	20	2.83	1630
3508877	163	6.94	3.05	17	2.26	1560
3508878	162	7.94	1.84	32	3.67	1982
3508879	154	7.68	1.70	32	4.26	1812
3508880	5003	4.83	2.86	31	1.42	525
3508881	299	7.20	2.27	25	3.52	1714
3508882	109	5.97	3.78	13	2.17	1212

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (1-76)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05298

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508883	181	6.95	4.07	16	2.81	1462
3508884	103	5.98	3.49	9	2.02	1180
3508885	110	6.12	3.95	9	1.94	1231
3508886	258	6.98	4.51	13	2.31	1342
3508887	305	8.51	1.54	16	3.52	1730
3508888	236	8.13	1.43	16	3.31	1476
3508889	250	9.87	1.56	15	3.91	1874
3508890	0.7	0.15	0.03	2	13.74	142
3508891	482	8.86	1.34	17	3.82	1798
3508892	258	7.94	1.41	16	4.23	1854
*Dup 3508856	196	9.54	2.16	20	3.61	2384
*Std OREAS 520	2930	>15.00	3.64	19	1.13	2200
*Std OREAS 520	2939	>15.00	3.62	19	1.20	2342
*Blk BLANK	<0.5	<0.01	<0.01	<1	0.02	<2
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Std OREAS 601	950	2.48	2.09	21	0.38	474
*Rep 3508850	<0.5	0.13	0.02	1	13.35	128
*Std OREAS 601	946	2.49	2.12	21	0.36	489
*Std OREAS 520	2901	>15.00	3.57	19	1.18	2290
*Std OREAS 601	970	2.49	2.18	22	0.36	449
*Rep 3508887	310	8.48	1.53	16	3.53	1721
*Blk BLANK	0.9	0.01	<0.01	<1	<0.01	2

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508817	2.45	16	0.14	0.02	574	0.44
3508818	2.70	17	0.15	<0.01	502	0.45
3508819	2.43	14	0.16	0.01	559	0.44
3508820	2.08	56	0.10	0.35	317	0.46
3508821	2.66	17	0.16	0.03	605	0.47
3508822	2.33	21	0.14	0.01	551	0.48
3508823	2.25	23	0.15	0.02	739	0.57
3508824	2.41	22	0.15	0.04	788	0.58
3508825	2.24	23	0.15	0.02	751	0.57
3508826	1.94	26	0.14	0.16	653	0.60
3508827	1.92	26	0.14	0.05	585	0.58
3508828	1.83	28	0.14	0.11	607	0.58
3508829	1.67	45	0.13	0.03	516	0.55
3508830	0.01	<1	<0.01	<0.01	46.0	<0.01
3508831	1.72	43	0.12	0.14	590	0.54
3508832	1.94	29	0.13	0.06	653	0.58
3508833	1.99	29	0.13	0.09	535	0.58
3508834	1.78	28	0.13	0.10	766	0.58
3508835	1.45	28	0.13	0.17	975	0.57
3508836	2.07	25	0.15	0.52	650	0.60
3508837	1.91	25	0.13	0.44	613	0.61
3508838	2.17	23	0.14	0.22	625	0.60
3508839	2.24	32	0.13	0.05	629	0.55
3508840	2.07	56	0.10	0.35	319	0.46
3508841	2.12	24	0.15	0.37	693	0.63
3508842	2.13	21	0.14	0.33	601	0.61
3508843	2.38	21	0.15	0.17	626	0.63
3508844	2.15	22	0.14	0.20	761	0.64
3508845	2.25	20	0.15	0.31	831	0.60

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508846	2.11	23	0.15	0.40	709	0.64
3508847	2.49	20	0.15	0.47	758	0.64
3508848	2.45	20	0.15	0.32	840	0.64
3508849	2.23	23	0.17	0.43	644	0.64
3508850	<0.01	<1	<0.01	<0.01	43.0	<0.01
3508851	2.29	19	0.16	0.51	503	0.52
3508852	2.05	16	0.15	1.74	616	0.49
3508853	1.70	19	0.16	0.58	894	0.59
3508854	1.78	22	0.16	0.62	606	0.59
3508855	1.82	22	0.15	0.64	553	0.60
3508856	1.02	24	0.17	2.75	694	0.54
3508857	1.64	28	0.14	1.23	515	0.64
3508858	1.61	25	0.14	0.64	792	0.61
3508859	1.51	27	0.16	1.88	708	0.62
3508860	2.05	52	0.10	0.38	314	0.46
3508861	1.80	25	0.16	0.96	673	0.71
3508862	1.64	27	0.16	1.81	759	0.65
3508863	2.16	21	0.17	0.48	732	0.56
3508864	1.89	28	0.15	1.97	601	0.52
3508865	1.33	35	0.15	3.25	677	0.52
3508866	1.63	21	0.14	1.25	722	0.44
3508867	2.24	11	0.21	0.65	688	0.54
3508868	1.41	7	0.24	0.58	947	0.35
3508869	0.89	27	0.15	4.08	670	0.36
3508870	0.01	<1	<0.01	<0.01	44.3	<0.01
3508871	1.26	30	0.17	0.73	963	0.41
3508872	1.69	15	0.25	0.91	1061	0.45
3508873	1.51	11	0.28	0.32	1084	0.41
3508874	1.73	8	0.29	0.34	832	0.38

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508875	2.56	15	0.20	1.03	768	0.49
3508876	2.66	14	0.20	0.94	745	0.49
3508877	2.67	9	0.19	1.40	748	0.46
3508878	2.64	26	0.16	1.00	620	0.55
3508879	2.77	33	0.13	1.46	476	0.63
3508880	2.04	30	0.10	0.85	351	0.47
3508881	2.50	25	0.14	1.22	599	0.55
3508882	2.97	10	0.14	1.63	472	0.41
3508883	2.04	18	0.24	0.71	803	0.39
3508884	2.94	10	0.14	0.54	600	0.41
3508885	2.77	10	0.14	0.90	584	0.41
3508886	1.50	13	0.20	2.56	731	0.39
3508887	1.92	24	0.15	0.72	865	0.52
3508888	2.17	22	0.16	1.19	733	0.59
3508889	1.90	23	0.17	0.70	562	0.65
3508890	0.01	<1	<0.01	<0.01	44.4	<0.01
3508891	1.70	33	0.15	0.95	778	0.61
3508892	1.89	37	0.14	0.77	622	0.59
*Dup 3508856	1.01	23	0.17	2.62	708	0.53
*Std OREAS 520	1.41	75	0.07	0.94	102	0.40
*Std OREAS 520	1.39	69	0.07	1.02	101	0.38
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.6	<0.01
*Std OREAS 601	1.39	23	0.04	1.13	216	0.17
*Rep 3508850	<0.01	<1	<0.01	<0.01	42.3	<0.01
*Std OREAS 601	1.41	20	0.04	1.11	216	0.17
*Std OREAS 520	1.37	73	0.07	1.04	100	0.39
*Std OREAS 601	1.46	28	0.05	1.04	229	0.17
*Rep 3508887	1.92	23	0.15	0.72	876	0.52

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.8	<0.01

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508817	229	73	26.6	0.34	5	1.3
3508818	230	80	31.5	0.14	4	1.5
3508819	220	63	24.0	0.16	6	1.2
3508820	120	79	75.9	0.39	24	3.4
3508821	252	81	21.1	0.17	4	1.2
3508822	265	73	17.6	0.24	5	1.0
3508823	341	81	21.9	0.16	5	0.8
3508824	340	67	16.2	0.28	7	1.0
3508825	345	74	16.4	0.14	6	0.7
3508826	353	78	21.8	0.20	6	0.7
3508827	351	93	22.0	0.15	4	0.7
3508828	361	88	23.4	0.17	6	0.8
3508829	342	104	19.1	0.19	6	0.7
3508830	2	5	0.5	0.05	<1	<0.1
3508831	342	105	23.8	0.21	4	0.7
3508832	349	88	24.0	0.13	4	0.6
3508833	353	93	23.7	0.19	8	0.6
3508834	359	83	23.5	0.17	6	0.8
3508835	375	79	24.8	0.12	6	0.7
3508836	341	84	21.5	0.13	3	0.7
3508837	377	96	20.5	0.13	3	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508838	351	85	21.6	0.12	3	0.7
3508839	331	92	22.2	0.15	4	0.8
3508840	122	79	75.5	0.37	21	3.2
3508841	355	84	23.3	0.07	3	0.7
3508842	339	92	18.0	0.15	4	0.7
3508843	336	85	20.4	0.10	4	0.8
3508844	358	88	17.3	0.12	5	0.8
3508845	339	73	24.8	0.13	4	1.0
3508846	352	87	20.7	0.16	3	0.9
3508847	326	92	21.0	0.14	2	1.0
3508848	329	79	18.5	0.12	4	0.8
3508849	348	83	16.4	0.21	5	0.8
3508850	<2	2	<0.5	0.05	<1	<0.1
3508851	320	93	15.2	0.15	6	1.2
3508852	291	71	15.2	0.16	14	0.9
3508853	339	74	17.0	0.16	8	1.0
3508854	372	84	19.3	0.21	7	1.0
3508855	383	83	17.3	0.24	6	1.0
3508856	412	93	14.8	0.36	21	1.4
3508857	401	106	21.2	0.88	8	0.7
3508858	387	76	20.4	0.12	8	1.1
3508859	370	77	24.0	0.32	8	1.0
3508860	125	74	68.0	0.39	25	3.5
3508861	380	80	22.2	0.32	6	1.1
3508862	364	72	23.4	0.34	12	1.2
3508863	359	72	15.8	0.19	8	0.7
3508864	361	75	16.5	0.23	8	1.1
3508865	364	84	19.0	0.34	12	1.2
3508866	325	74	19.3	0.24	12	2.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508867	300	80	42.5	0.13	7	1.9
3508868	244	59	47.2	0.12	7	1.8
3508869	293	80	34.7	0.33	8	3.2
3508870	<2	3	<0.5	0.05	<1	<0.1
3508871	290	95	37.9	0.16	6	1.6
3508872	297	81	45.9	0.27	7	1.7
3508873	323	77	44.5	0.28	7	1.8
3508874	274	68	38.2	0.16	6	1.5
3508875	280	69	42.6	0.14	5	1.3
3508876	270	72	46.4	0.13	5	1.2
3508877	251	77	39.3	0.41	4	1.2
3508878	329	101	19.5	0.14	4	1.1
3508879	340	95	27.2	0.11	3	1.4
3508880	121	69	88.0	1.19	87	3.3
3508881	300	76	23.5	0.32	5	1.1
3508882	215	42	22.4	0.08	6	1.2
3508883	286	63	29.4	0.19	5	1.5
3508884	215	52	17.4	0.15	4	1.3
3508885	221	56	15.5	0.59	4	1.4
3508886	274	54	26.1	0.25	9	1.7
3508887	387	74	19.7	0.30	5	0.8
3508888	332	69	16.3	0.25	5	0.7
3508889	425	86	15.8	0.30	5	0.7
3508890	<2	4	0.5	0.07	<1	<0.1
3508891	360	75	26.9	0.49	7	0.7
3508892	341	89	32.2	0.31	8	0.9
*Dup 3508856	406	90	14.3	0.35	22	1.4
*Std OREAS 520	261	22	132	0.36	143	1.2
*Std OREAS 520	259	21	120	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Blk BLANK	<2	2	<0.5	<0.02	<1	<0.1
*Std OREAS 601	27	1231	151	47.99	301	2.4
*Rep 3508850	<2	2	<0.5	0.05	<1	<0.1
*Std OREAS 601	27	1241	139	46.65	296	2.4
*Std OREAS 520	261	21	121	0.41	151	1.2
*Std OREAS 601	27	1305	157	50.59	287	2.2
*Rep 3508887	377	75	15.5	0.29	5	0.8
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508817	<0.04	0.13	24.58	24.2	<1	19.6
3508818	<0.04	0.13	24.99	24.2	<1	19.7
3508819	<0.04	0.11	25.15	21.9	<1	19.4
3508820	0.68	0.25	70.56	15.6	12	18.7
3508821	<0.04	0.16	24.50	25.6	<1	19.3
3508822	<0.04	0.11	21.36	27.2	<1	18.6
3508823	<0.04	0.14	17.82	31.8	<1	18.0
3508824	0.11	0.12	18.45	35.0	<1	19.4
3508825	0.08	0.10	18.68	31.1	<1	17.7
3508826	0.07	0.11	18.37	37.2	<1	16.6
3508827	<0.04	0.14	16.98	32.7	<1	16.7
3508828	<0.04	0.14	17.60	38.9	<1	17.0
3508829	<0.04	0.14	15.13	39.9	<1	16.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508830	<0.04	0.03	1.01	1.0	<1	0.3
3508831	0.05	0.15	16.44	35.4	<1	15.0
3508832	<0.04	0.14	17.46	36.9	<1	15.6
3508833	<0.04	0.13	16.72	34.9	<1	15.1
3508834	0.07	0.13	16.92	35.2	<1	16.4
3508835	0.11	0.12	16.02	31.9	<1	17.1
3508836	<0.04	0.15	18.03	36.3	<1	17.0
3508837	<0.04	0.15	16.41	38.0	<1	16.6
3508838	<0.04	0.11	17.26	33.2	<1	17.3
3508839	<0.04	0.09	16.94	35.6	<1	16.4
3508840	0.71	0.23	71.60	14.3	11	17.9
3508841	<0.04	0.13	17.36	34.4	<1	17.4
3508842	0.04	0.14	16.77	31.7	<1	17.1
3508843	0.05	0.13	17.92	30.2	<1	16.8
3508844	0.08	0.11	17.73	33.2	<1	18.6
3508845	0.05	0.11	18.42	31.6	<1	18.4
3508846	0.06	0.16	18.62	33.3	<1	17.5
3508847	0.05	0.16	19.27	32.7	<1	18.2
3508848	0.06	0.13	18.89	29.4	<1	18.4
3508849	0.07	0.15	16.60	30.9	<1	16.7
3508850	<0.04	0.02	0.81	0.9	<1	0.1
3508851	0.09	0.15	18.58	29.2	<1	17.1
3508852	0.24	0.10	17.74	27.9	<1	17.1
3508853	0.09	0.12	17.81	30.2	<1	19.9
3508854	0.07	0.18	19.14	39.3	<1	19.8
3508855	0.07	0.17	19.37	40.3	<1	19.4
3508856	0.34	0.14	18.65	41.1	<1	19.8
3508857	0.09	0.27	16.28	46.2	<1	18.3
3508858	0.06	0.14	16.32	39.2	<1	18.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508859	0.15	0.15	18.48	43.8	<1	19.0
3508860	0.68	0.24	70.33	16.7	11	19.2
3508861	0.09	0.20	20.75	36.8	<1	19.4
3508862	0.17	0.21	19.23	43.4	<1	19.5
3508863	0.05	0.11	20.11	34.0	<1	18.9
3508864	0.13	0.13	16.50	42.9	<1	18.7
3508865	0.38	0.20	15.19	50.8	<1	18.5
3508866	0.21	0.17	18.04	30.3	<1	18.7
3508867	0.09	0.07	23.82	31.9	2	18.3
3508868	0.09	0.05	24.21	19.5	2	17.2
3508869	0.21	0.12	19.10	79.5	3	18.0
3508870	<0.04	0.03	0.97	1.1	<1	0.3
3508871	0.11	0.06	21.62	28.8	2	19.2
3508872	0.12	0.10	22.57	31.1	2	16.4
3508873	0.09	0.10	23.00	25.7	1	17.3
3508874	0.08	0.04	22.97	18.7	1	17.2
3508875	0.09	0.07	23.73	31.8	3	17.5
3508876	0.10	0.08	23.21	31.2	2	17.4
3508877	0.07	0.10	21.58	28.9	3	18.4
3508878	0.09	0.21	18.63	33.2	2	18.3
3508879	0.10	0.18	19.48	35.2	2	17.0
3508880	1.38	0.49	68.64	17.2	11	18.6
3508881	0.14	0.19	21.32	29.3	<1	17.5
3508882	0.18	0.05	23.96	25.8	<1	18.9
3508883	0.08	0.06	21.10	29.9	2	16.6
3508884	0.06	0.12	24.55	23.5	<1	19.2
3508885	0.08	0.10	23.83	21.1	<1	19.6
3508886	0.26	0.12	21.06	24.9	1	18.0
3508887	0.06	0.21	17.63	40.3	<1	18.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508888	0.05	0.18	18.66	37.2	<1	18.8
3508889	0.04	0.17	19.62	41.6	<1	18.4
3508890	<0.04	0.03	1.02	1.0	<1	0.3
3508891	0.05	0.26	18.72	41.9	<1	17.4
3508892	0.07	0.19	17.35	37.3	<1	17.1
*Dup 3508856	0.35	0.14	18.80	38.6	<1	19.7
*Std OREAS 520	3.12	0.06	80.60	189	<1	17.8
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.30	7.54	62.99	5.7	7	20.3
*Rep 3508850	<0.04	<0.02	0.79	0.8	<1	0.1
*Std OREAS 601	19.67	7.80	60.27	5.5	7	21.0
*Std OREAS 520	2.82	0.08	85.84	194	<1	18.3
*Std OREAS 601	21.69	7.26	57.96	5.1	6	20.0
*Rep 3508887	0.06	0.21	17.48	38.8	<1	17.6
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.2

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508817	0.91	0.05	12.0	0.30	1.43	8.3
3508818	1.10	0.05	12.3	0.29	1.53	9.5
3508819	0.81	0.04	12.5	0.29	1.21	7.7
3508820	2.29	0.07	34.4	0.37	106	19.3
3508821	0.84	0.05	11.8	0.28	1.56	7.3
3508822	0.73	0.05	10.2	0.27	1.05	6.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508823	0.88	0.06	8.1	0.27	0.66	4.1
3508824	0.74	0.05	8.7	0.27	1.85	4.2
3508825	0.76	0.05	8.6	0.26	1.12	3.7
3508826	0.87	0.06	8.0	0.27	0.82	3.3
3508827	0.91	0.06	7.5	0.26	0.65	3.3
3508828	0.87	0.06	7.7	0.26	0.59	3.2
3508829	0.85	0.06	6.6	0.25	0.46	2.6
3508830	<0.02	<0.02	0.6	<0.01	0.10	<0.1
3508831	0.96	0.06	7.2	0.26	0.90	3.2
3508832	0.97	0.06	7.6	0.27	0.61	3.2
3508833	0.94	0.06	7.3	0.27	0.60	3.0
3508834	0.95	0.06	7.4	0.27	0.78	2.9
3508835	0.90	0.07	7.0	0.25	1.42	2.9
3508836	0.89	0.06	8.0	0.27	0.72	3.2
3508837	0.88	0.06	7.1	0.27	0.68	2.9
3508838	0.84	0.05	7.7	0.27	0.82	3.5
3508839	0.84	0.06	7.8	0.26	0.89	3.6
3508840	2.31	0.07	35.7	0.37	104	18.6
3508841	0.86	0.06	7.7	0.27	0.65	3.5
3508842	0.83	0.05	7.4	0.26	0.88	3.5
3508843	0.87	0.06	8.0	0.27	0.72	3.7
3508844	0.81	0.06	7.8	0.27	0.95	3.8
3508845	0.87	0.06	8.4	0.26	1.01	4.7
3508846	0.78	0.06	8.4	0.28	1.11	4.0
3508847	0.74	0.05	8.5	0.27	0.83	4.7
3508848	0.77	0.06	8.8	0.27	1.04	4.3
3508849	0.72	0.06	7.6	0.25	1.28	3.5
3508850	<0.02	<0.02	0.5	<0.01	<0.05	<0.1
3508851	0.64	0.05	9.1	0.26	2.53	5.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508852	0.63	0.05	8.8	0.24	8.37	5.3
3508853	0.69	0.06	8.7	0.24	3.85	5.1
3508854	0.76	0.07	8.4	0.26	2.45	4.7
3508855	0.73	0.07	8.6	0.26	2.81	4.7
3508856	0.69	0.09	8.2	0.25	6.41	3.2
3508857	0.77	0.07	6.7	0.24	1.74	3.1
3508858	0.79	0.06	6.8	0.25	1.50	2.9
3508859	0.90	0.07	7.7	0.26	2.01	3.4
3508860	2.29	0.07	33.5	0.37	104	19.1
3508861	0.86	0.07	8.6	0.29	1.62	4.0
3508862	0.93	0.07	7.8	0.29	3.63	3.5
3508863	0.72	0.06	8.8	0.26	1.54	4.0
3508864	0.77	0.06	7.2	0.23	1.92	2.9
3508865	0.77	0.06	6.5	0.22	8.21	2.5
3508866	0.79	0.06	8.2	0.23	16.89	4.1
3508867	1.29	0.06	10.5	0.26	2.69	5.6
3508868	1.11	0.04	11.7	0.21	1.51	5.3
3508869	0.97	0.05	8.5	0.18	5.12	4.0
3508870	<0.02	<0.02	0.5	<0.01	0.06	<0.1
3508871	1.14	0.05	9.9	0.20	1.95	4.1
3508872	1.24	0.05	10.6	0.23	1.24	4.8
3508873	1.13	0.05	11.1	0.21	1.03	4.6
3508874	1.05	0.04	11.2	0.20	0.54	4.8
3508875	1.27	0.05	10.7	0.24	3.50	5.3
3508876	1.29	0.05	10.6	0.24	2.46	5.1
3508877	1.10	0.05	9.8	0.21	2.40	4.8
3508878	0.91	0.06	8.0	0.26	3.17	3.1
3508879	1.00	0.07	8.2	0.27	1.99	4.7
3508880	2.46	0.10	32.7	0.35	368	20.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508881	0.96	0.06	9.5	0.30	15.94	5.3
3508882	0.82	0.04	11.7	0.28	7.61	7.6
3508883	1.02	0.05	10.1	0.19	2.23	4.7
3508884	0.73	0.05	12.1	0.28	4.45	8.1
3508885	0.71	0.05	11.4	0.27	4.72	7.9
3508886	0.73	0.05	10.1	0.22	18.98	5.1
3508887	0.70	0.06	8.0	0.25	4.10	3.8
3508888	0.72	0.06	8.3	0.27	1.90	2.9
3508889	0.75	0.07	8.9	0.28	2.09	3.8
3508890	<0.02	<0.02	0.5	<0.01	0.07	<0.1
3508891	0.94	0.08	8.7	0.26	2.47	3.3
3508892	1.00	0.07	7.8	0.25	1.85	3.1
*Dup 3508856	0.68	0.09	8.1	0.24	8.66	3.2
*Std OREAS 520	3.69	0.11	81.6	0.37	67.52	5.1
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.42	1.79	33.7	0.10	4.02	12.9
*Rep 3508850	<0.02	<0.02	0.4	<0.01	<0.05	<0.1
*Std OREAS 601	4.22	1.74	28.4	0.11	4.11	13.3
*Std OREAS 520	3.72	0.12	88.0	0.36	65.24	4.9
*Std OREAS 601	4.16	1.59	29.3	0.10	3.96	12.5
*Rep 3508887	0.71	0.06	8.0	0.25	3.81	3.8
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508817	5.4	67.5	20.4	<2	1.18	0.9
3508818	5.1	72.5	21.9	<2	0.95	0.9
3508819	4.8	64.7	20.7	<2	1.21	0.8
3508820	21.5	174	14.4	2	2.18	3.4
3508821	5.4	60.6	24.9	<2	0.85	0.8
3508822	3.9	63.9	27.0	<2	0.93	0.8
3508823	4.0	37.4	38.8	<2	1.53	0.8
3508824	4.6	47.0	33.3	<2	1.50	0.7
3508825	3.0	38.0	37.7	<2	1.39	0.7
3508826	3.2	40.8	42.2	<2	1.41	0.7
3508827	3.2	39.5	41.5	<2	1.18	0.8
3508828	2.9	40.5	41.5	<2	1.71	0.6
3508829	3.3	44.7	44.0	<2	2.08	0.6
3508830	2.1	1.7	<0.5	<2	0.10	<0.3
3508831	2.9	36.5	44.1	<2	1.36	0.7
3508832	3.1	28.6	40.6	<2	1.72	0.6
3508833	4.3	31.3	43.2	<2	1.97	0.5
3508834	4.2	33.1	39.4	<2	1.90	0.5
3508835	3.6	27.0	41.2	<2	1.77	0.6
3508836	2.8	35.2	36.2	<2	1.05	0.5
3508837	3.1	30.7	38.7	<2	0.93	0.6
3508838	2.9	34.6	37.3	<2	1.17	0.6
3508839	3.5	31.9	39.2	<2	1.64	0.8
3508840	22.1	185	13.2	2	2.06	3.3
3508841	2.9	34.0	36.8	<2	1.06	0.7
3508842	6.1	37.5	35.5	<2	1.19	0.9
3508843	3.4	38.2	35.0	<2	1.28	0.7
3508844	3.7	36.0	35.1	<2	1.28	0.7
3508845	3.5	39.6	31.9	<2	1.11	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508846	3.3	40.8	33.9	<2	0.94	0.6
3508847	3.1	41.8	28.9	<2	0.83	0.7
3508848	3.8	41.2	28.4	<2	1.34	0.7
3508849	3.8	45.2	28.5	<2	1.17	0.6
3508850	1.3	1.0	<0.5	<2	<0.05	<0.3
3508851	4.3	55.2	24.0	<2	1.21	0.7
3508852	5.7	52.2	21.6	<2	1.93	0.7
3508853	6.4	40.4	25.6	<2	1.91	0.7
3508854	5.4	47.2	34.7	<2	1.56	0.8
3508855	4.4	48.8	34.9	<2	1.41	0.8
3508856	6.5	53.0	34.8	3	2.23	0.8
3508857	3.6	54.0	41.9	<2	1.51	0.7
3508858	5.5	39.5	37.6	<2	2.03	0.6
3508859	4.6	46.5	37.9	<2	1.98	0.7
3508860	21.4	181	15.3	2	2.26	3.5
3508861	4.2	45.5	39.2	<2	1.65	0.7
3508862	4.8	38.8	39.7	<2	1.60	0.7
3508863	4.2	39.7	33.5	<2	1.63	0.8
3508864	3.8	49.8	37.3	<2	1.77	0.8
3508865	5.8	43.9	36.6	2	2.49	0.7
3508866	7.8	50.1	29.4	<2	2.12	0.7
3508867	4.8	81.4	26.3	<2	1.57	0.9
3508868	6.1	107	11.5	<2	1.25	0.6
3508869	8.6	104	26.9	4	1.38	0.7
3508870	1.5	1.5	<0.5	<2	0.06	<0.3
3508871	4.3	76.1	31.4	<2	1.50	0.7
3508872	6.2	93.1	21.3	<2	1.53	0.7
3508873	5.5	79.6	16.2	<2	1.47	0.7
3508874	5.2	93.2	12.9	<2	1.04	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508875	7.6	81.5	26.0	<2	2.04	0.8
3508876	9.5	71.6	26.4	<2	1.58	0.7
3508877	8.9	85.2	22.2	<2	1.34	0.8
3508878	4.0	74.2	35.4	<2	0.76	0.9
3508879	4.2	58.1	43.5	<2	0.75	1.2
3508880	20.7	174	13.3	3	3.39	3.4
3508881	3.8	53.9	34.7	<2	0.94	0.9
3508882	3.9	76.6	19.9	2	0.75	0.9
3508883	4.5	89.1	19.7	<2	1.06	0.6
3508884	3.6	73.7	19.6	<2	0.90	0.9
3508885	5.8	80.4	19.7	<2	0.90	1.0
3508886	5.5	91.2	18.8	2	1.22	0.9
3508887	3.8	45.4	32.8	<2	1.34	0.6
3508888	4.3	43.4	32.7	<2	1.10	0.8
3508889	3.7	41.6	37.0	<2	1.13	0.8
3508890	1.8	1.4	<0.5	<2	0.08	<0.3
3508891	5.1	39.5	44.3	<2	1.72	0.9
3508892	6.0	39.0	46.6	<2	2.09	0.9
*Dup 3508856	6.5	49.1	34.3	2	2.25	0.8
*Std OREAS 520	6.8	116	15.8	<2	2.93	4.4
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	315	94.7	5.4	12	31.71	4.3
*Rep 3508850	1.2	1.0	<0.5	<2	<0.05	<0.3
*Std OREAS 601	311	93.7	4.8	12	30.50	4.2
*Std OREAS 520	7.0	110	17.7	<2	3.19	4.7
*Std OREAS 601	335	96.6	4.6	11	28.55	3.9
*Rep 3508887	3.7	44.6	31.8	<2	1.30	0.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508817	0.51	0.64	<0.05	2.8	0.35	1.30
3508818	0.57	0.61	<0.05	3.1	0.31	1.19
3508819	0.47	0.64	0.05	2.5	0.32	1.07
3508820	1.45	0.86	0.24	19.8	1.02	5.39
3508821	0.43	0.63	0.05	2.4	0.29	1.00
3508822	0.37	0.61	<0.05	2.0	0.30	0.85
3508823	0.25	0.64	<0.05	1.2	0.16	0.57
3508824	0.26	0.63	0.16	1.3	0.22	0.69
3508825	0.24	0.63	0.09	1.2	0.19	0.60
3508826	0.23	0.64	0.12	1.1	0.19	0.49
3508827	0.22	0.61	0.07	1.1	0.20	0.44
3508828	0.21	0.63	0.11	1.0	0.20	0.47
3508829	0.18	0.57	0.10	0.9	0.20	0.43
3508830	<0.05	<0.05	<0.05	<0.2	<0.02	0.07
3508831	0.23	0.59	0.09	1.2	0.19	0.55
3508832	0.22	0.63	0.09	1.1	0.15	0.47
3508833	0.20	0.63	0.17	1.1	0.16	0.48
3508834	0.21	0.61	0.16	1.0	0.17	0.53
3508835	0.19	0.59	0.17	1.0	0.14	0.65
3508836	0.22	0.63	0.17	1.0	0.21	0.46
3508837	0.22	0.62	0.14	0.9	0.18	0.41
3508838	0.24	0.62	0.11	1.1	0.19	0.47
3508839	0.24	0.61	0.07	1.2	0.16	0.54
3508840	1.45	0.87	0.27	21.1	1.02	5.73
3508841	0.25	0.62	0.13	1.1	0.19	0.46
3508842	0.24	0.60	0.12	1.1	0.18	0.46
3508843	0.25	0.62	0.12	1.1	0.19	0.49
3508844	0.26	0.63	0.13	1.0	0.17	0.45

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508845	0.31	0.62	0.12	1.4	0.19	0.59
3508846	0.26	0.66	0.12	1.1	0.21	0.50
3508847	0.33	0.65	0.11	1.2	0.21	0.53
3508848	0.29	0.63	0.09	1.2	0.20	0.55
3508849	0.24	0.57	0.10	0.9	0.20	0.49
3508850	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
3508851	0.38	0.56	0.08	2.6	0.26	1.10
3508852	0.34	0.53	0.15	2.4	0.25	1.01
3508853	0.33	0.56	0.10	2.3	0.18	1.07
3508854	0.33	0.64	0.10	1.4	0.20	0.71
3508855	0.30	0.64	0.09	1.4	0.21	0.71
3508856	0.19	0.64	0.22	0.9	0.26	0.83
3508857	0.21	0.62	0.18	0.8	0.25	0.42
3508858	0.20	0.60	0.09	0.7	0.17	0.36
3508859	0.22	0.63	0.25	1.0	0.21	0.55
3508860	1.44	0.91	0.25	19.7	1.01	5.92
3508861	0.27	0.72	0.16	0.8	0.20	0.46
3508862	0.23	0.73	0.23	0.7	0.17	0.49
3508863	0.26	0.63	0.09	1.1	0.17	0.51
3508864	0.18	0.58	0.13	0.9	0.21	0.52
3508865	0.15	0.55	0.22	0.7	0.21	0.48
3508866	0.25	0.55	0.16	1.3	0.24	0.86
3508867	0.36	0.70	0.09	2.0	0.39	1.10
3508868	0.31	0.47	0.07	3.3	0.52	1.71
3508869	0.23	0.45	0.13	1.7	0.55	1.35
3508870	<0.05	<0.05	<0.05	<0.2	<0.02	0.06
3508871	0.25	0.51	0.07	1.9	0.43	1.14
3508872	0.30	0.55	0.08	2.5	0.43	1.36
3508873	0.27	0.50	0.06	3.0	0.33	1.60

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508874	0.27	0.48	0.05	3.0	0.36	1.63
3508875	0.33	0.65	0.10	2.0	0.43	1.28
3508876	0.33	0.66	0.10	2.1	0.35	1.37
3508877	0.30	0.61	0.27	1.7	0.41	1.54
3508878	0.20	0.63	0.08	0.8	0.34	0.78
3508879	0.31	0.68	0.08	1.1	0.29	1.14
3508880	1.56	0.85	0.35	17.7	0.94	4.95
3508881	0.34	0.66	0.13	1.7	0.21	0.86
3508882	0.45	0.60	0.14	2.7	0.30	1.19
3508883	0.27	0.47	0.10	2.6	0.40	1.48
3508884	0.48	0.60	0.12	2.8	0.28	1.23
3508885	0.46	0.60	0.48	2.7	0.31	1.29
3508886	0.30	0.53	0.27	2.5	0.45	1.48
3508887	0.23	0.59	0.10	1.3	0.19	0.63
3508888	0.18	0.64	0.12	0.9	0.21	0.48
3508889	0.24	0.69	0.11	1.2	0.19	0.57
3508890	<0.05	<0.05	<0.05	<0.2	<0.02	0.08
3508891	0.23	0.67	0.11	0.9	0.17	0.51
3508892	0.21	0.61	0.10	0.8	0.15	0.47
*Dup 3508856	0.23	0.64	0.23	0.9	0.24	0.86
*Std OREAS 520	0.43	0.69	0.37	11.1	0.29	18.98
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	1.00	0.58	15.64	11.2	1.15	3.94
*Rep 3508850	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	1.01	0.58	14.79	10.2	1.23	4.14
*Std OREAS 520	0.38	0.71	0.39	9.9	0.25	18.39
*Std OREAS 601	1.01	0.56	15.49	12.6	1.31	4.08
*Rep 3508887	0.23	0.59	0.11	1.3	0.19	0.62

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (1-76)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05298

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508817	1.0	19.8	2.0
3508818	0.8	20.2	2.0
3508819	0.9	19.6	2.0
3508820	3.9	27.0	2.6
3508821	0.5	19.8	1.9
3508822	0.7	19.3	1.9
3508823	0.7	19.1	1.9
3508824	1.3	19.0	1.9
3508825	1.1	18.8	1.8
3508826	0.8	18.9	2.0
3508827	0.6	18.3	1.8
3508828	0.5	18.4	1.8
3508829	0.7	17.5	1.7
3508830	0.1	0.3	<0.1
3508831	0.5	18.2	1.8
3508832	0.5	18.9	1.9
3508833	0.8	18.6	1.8
3508834	1.0	18.3	1.9
3508835	1.0	17.8	1.7
3508836	0.3	18.8	1.9
3508837	0.3	18.3	1.9
3508838	0.4	18.7	1.9
3508839	0.6	18.5	1.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(1-76)
Number of Samples 76

ANALYSIS REPORT BBM20-05298

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508840	5.0	26.3	2.6
3508841	0.2	19.3	1.8
3508842	0.6	18.5	1.8
3508843	0.7	19.5	1.9
3508844	0.8	18.8	1.9
3508845	0.7	19.5	1.8
3508846	0.6	20.1	2.0
3508847	0.5	19.7	1.9
3508848	1.2	19.0	1.9
3508849	1.1	17.6	1.7
3508850	<0.1	0.3	<0.1
3508851	1.3	17.4	1.7
3508852	1.9	16.3	1.7
3508853	1.5	17.8	1.7
3508854	1.0	19.3	1.8
3508855	1.0	19.3	1.8
3508856	2.5	18.9	1.7
3508857	0.9	18.6	1.8
3508858	1.0	17.9	1.7
3508859	1.3	19.0	1.8
3508860	4.7	27.2	2.6
3508861	1.2	22.3	2.1
3508862	1.5	21.4	2.0
3508863	1.3	19.0	1.8
3508864	1.4	17.4	1.6
3508865	2.4	16.4	1.6
3508866	2.9	16.5	1.6
3508867	2.3	20.5	1.9
3508868	1.9	14.4	1.4
3508869	1.6	13.3	1.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05298

Order Number	PO: M24987
Project	MAX
Submission Number (1-76)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508870	<0.1	0.3	<0.1
3508871	1.5	14.6	1.4
3508872	1.2	16.5	1.6
3508873	1.0	14.8	1.4
3508874	1.3	14.6	1.4
3508875	1.9	19.1	1.8
3508876	1.1	19.3	1.8
3508877	1.8	18.2	1.6
3508878	1.3	18.2	1.8
3508879	1.1	20.3	1.9
3508880	3.7	25.0	2.5
3508881	1.2	20.4	2.0
3508882	1.5	18.9	1.9
3508883	1.1	13.7	1.4
3508884	1.1	19.7	1.9
3508885	2.1	18.8	1.8
3508886	2.6	15.5	1.5
3508887	1.1	17.7	1.7
3508888	0.5	19.6	1.9
3508889	0.6	20.3	1.9
3508890	<0.1	0.3	<0.1
3508891	1.0	20.6	1.8
3508892	1.2	19.5	1.8
*Dup 3508856	2.6	18.5	1.7
*Std OREAS 520	48.4	21.7	2.4
*Blk BLANK	<0.1	<0.1	<0.1
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.6	11.9	0.7
*Rep 3508850	<0.1	0.3	<0.1
*Std OREAS 601	5.9	11.0	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (1-76)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05298

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	44.9	21.8	2.3
*Std OREAS 601	5.9	11.4	0.7
*Rep 3508887	0.8	17.4	1.7
*Blk BLANK	<0.1	<0.1	<0.1

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05306

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	26-Oct-2020
Project	MAX	Date Analysed	29-Oct-2020 - 06-Nov-2020
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores	Date Completed	06-Nov-2020
		SGS Order Number	BBM20-05306
Number of Samples	76		

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508893	5.02	34	7.24	644	6.66	52
3508894	5.31	22	7.48	918	6.95	57
3508895	-	26	7.43	534	6.86	70
3508896	5.43	<5	6.65	787	7.98	146
3508897	5.09	25	6.02	856	6.20	136
3508898	5.35	13	7.02	989	8.13	126
3508899	4.94	<5	6.86	682	8.28	122
3508900	0.15	226	7.71	974	2.53	74
3508901	4.96	<5	7.22	910	7.36	121
3508902	4.79	<5	7.88	837	6.81	43
3508903	5.11	11	8.02	656	6.67	56
3508904	4.88	16	7.28	864	6.72	60
3508905	3.66	<5	8.12	808	5.87	31
3508906	4.00	<5	7.72	946	6.75	37
3508907	5.02	10	7.83	1274	6.80	30
3508908	5.97	<5	7.90	1050	6.33	48
3508909	4.02	1280	6.00	920	4.72	26
3508910	1.10	<5	0.07	9	>15.00	1
3508911	3.41	<5	7.67	901	6.93	60
3508912	5.26	15	7.99	897	6.90	38
3508913	4.72	<5	8.12	786	7.46	61
3508914	5.14	7	7.82	921	6.12	61
3508915	5.55	72	6.36	802	5.98	26
3508916	4.80	<5	7.97	782	6.28	45
3508917	5.02	<5	8.00	717	7.09	40
3508918	4.64	<5	8.22	795	7.46	42
3508919	4.96	<5	8.17	922	7.68	58
3508920	0.15	229	7.59	985	2.56	76
3508921	5.04	<5	7.59	974	6.57	39

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508922	5.07	9	7.99	1002	7.05	54
3508923	5.11	<5	8.02	999	6.91	43
3508924	5.39	<5	8.19	981	7.03	51
3508925	4.93	8	8.14	808	6.62	51
3508926	4.89	<5	8.22	876	7.52	50
3508927	4.80	<5	8.06	842	6.63	55
3508928	5.34	<5	8.38	797	7.01	60
3508929	4.84	10	8.16	675	6.52	58
3508930	1.18	<5	0.07	6	>15.00	<1
3508931	5.15	11	8.31	643	7.37	66
3508932	5.10	<5	8.25	639	7.17	82
3508933	3.03	<5	8.41	500	7.56	67
3508934	3.26	<5	8.06	377	8.09	82
3508935	-	<5	7.96	348	8.16	83
3508936	3.45	<5	9.21	1749	4.55	5
3508937	3.43	<5	8.66	1182	4.78	24
3508938	5.26	<5	8.50	2199	2.86	5
3508939	5.20	8	8.47	1779	3.18	7
3508940	0.15	225	7.64	969	2.49	66
3508941	4.94	10	8.23	603	8.69	55
3508942	4.65	<5	7.99	510	7.38	57
3508943	4.95	<5	8.27	871	7.10	55
3508944	5.13	<5	8.20	800	7.41	72
3508945	3.24	<5	7.91	653	6.97	57
3508946	2.42	30	7.99	2380	3.14	6
3508947	3.25	<5	8.58	2456	3.69	7
3508948	5.01	<5	7.94	636	6.69	78
3508949	5.43	<5	8.30	599	7.30	61
3508950	1.12	<5	0.06	7	>15.00	1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508951	4.98	<5	8.17	842	6.91	63
3508952	5.45	7	8.36	618	7.37	55
3508953	4.89	10	8.09	658	7.80	76
3508954	5.28	<5	7.72	383	8.64	120
3508955	4.30	6	8.23	469	8.05	83
3508956	3.94	<5	8.23	387	7.75	53
3508957	5.56	<5	8.79	1860	4.71	25
3508958	4.90	<5	8.17	590	7.91	49
3508959	5.40	12	7.51	494	7.85	70
3508960	0.13	331	8.60	1320	2.69	19
3508961	5.42	<5	7.36	428	7.76	125
3508962	4.40	<5	6.57	518	7.89	78
3508963	5.38	<5	7.81	1025	6.42	47
3508964	4.97	<5	8.02	1103	5.36	29
3508965	5.15	11	7.09	736	7.10	48
3508966	5.26	<5	6.85	463	9.54	96
3508967	5.01	13	6.45	909	8.33	107
3508968	5.66	8	7.23	870	7.54	53
*Dup 3508931	-	<5	8.29	646	7.42	66
*Rep 3508966	-	<5	-	-	-	-
*Blk BLANK	-	6	-	-	-	-
*Std SL76	-	5770	-	-	-	-
*Rep 3508895	-	-	7.49	862	6.74	63
*Std OREAS 601	-	-	6.33	3030	1.24	32
*Std OREAS 520	-	-	5.83	1831	3.89	34
*Blk BLANK	-	-	<0.01	1	<0.01	<1
*Rep 3508897	-	29	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OXG123	-	1040	-	-	-	-

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05306

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Rep 3508921	-	<5	-	-	-	-
*Std GS-9B	-	8990	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std SL76	-	6090	-	-	-	-
*Rep 3508952	-	<5	-	-	-	-
*Blk BLANK	-	-	<0.01	2	<0.01	<1
*Rep 3508968	-	-	7.29	882	7.58	55
*Std OREAS 601	-	-	5.93	2789	1.26	32
*Std OREAS 520	-	-	5.77	5350	3.86	32
*Rep 3508943	-	-	8.21	875	7.06	56
*Std OREAS 520	-	-	5.94	1622	3.81	34
*Blk BLANK	-	-	<0.01	<1	<0.01	<1
*Std OREAS 601	-	-	6.39	2061	1.22	32

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508893	389	10.12	2.49	22	3.63	1927
3508894	178	8.07	3.30	33	3.54	2316
3508895	196	8.25	3.31	33	3.52	2348
3508896	194	8.56	1.30	22	4.96	1688
3508897	745	10.01	2.68	22	4.38	1710
3508898	299	8.04	1.89	19	3.94	2087
3508899	176	7.92	1.29	19	4.53	1972
3508900	2672	4.32	2.78	36	1.48	512
3508901	157	7.87	1.64	19	4.40	1700

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508902	119	7.27	1.78	17	3.18	1692
3508903	268	7.85	1.54	20	3.56	1556
3508904	407	8.17	1.79	15	3.74	1631
3508905	140	7.04	1.77	21	3.07	1585
3508906	140	6.65	2.21	21	3.06	1712
3508907	295	7.75	3.56	19	2.66	1694
3508908	164	7.46	2.71	20	2.86	1550
3508909	376	12.02	4.38	21	2.94	1878
3508910	1.2	0.15	0.03	2	13.78	140
3508911	83.2	7.59	2.31	26	4.32	2226
3508912	233	7.24	2.86	21	3.00	1663
3508913	148	6.98	1.63	23	3.34	1673
3508914	192	7.10	2.93	21	3.10	1581
3508915	209	10.51	4.35	24	3.24	1583
3508916	207	7.25	1.69	18	3.65	1474
3508917	163	7.19	1.64	19	3.48	1343
3508918	156	7.49	1.74	18	3.30	1385
3508919	124	6.98	1.69	19	3.28	1634
3508920	2626	4.26	3.33	35	1.50	525
3508921	172	7.54	2.17	18	3.27	1657
3508922	165	7.35	2.13	21	3.59	1520
3508923	132	6.83	1.91	18	3.19	1237
3508924	116	7.12	1.60	19	3.47	1300
3508925	114	7.09	1.56	17	3.47	1332
3508926	148	7.15	1.79	21	3.37	1324
3508927	96.1	6.63	1.61	21	3.34	1319
3508928	101	6.87	1.60	16	3.10	1161
3508929	224	7.84	1.48	24	3.39	1335
3508930	0.5	0.15	0.02	2	13.69	135

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508931	130	7.37	1.45	25	3.77	1258
3508932	131	7.50	1.71	25	3.91	1345
3508933	155	8.48	1.39	30	4.11	1401
3508934	104	7.88	1.06	24	3.77	1481
3508935	98.0	7.86	1.01	23	3.65	1467
3508936	108	5.57	5.79	19	1.48	1187
3508937	139	6.38	3.81	22	2.15	1186
3508938	75.6	4.16	6.24	8	1.34	606
3508939	54.3	4.31	5.64	7	1.31	569
3508940	2737	4.38	2.39	37	1.45	512
3508941	250	8.22	1.61	13	2.52	1258
3508942	186	7.91	0.98	19	3.36	1420
3508943	151	7.53	1.39	20	3.30	1208
3508944	135	7.98	1.27	22	3.57	1424
3508945	127	7.85	1.73	24	3.81	1425
3508946	99.4	4.13	4.06	8	1.17	489
3508947	117	4.61	5.60	9	1.27	518
3508948	157	7.60	1.12	19	3.66	1194
3508949	131	7.60	1.10	19	3.76	1224
3508950	<0.5	0.14	0.02	2	13.61	133
3508951	198	7.42	1.47	25	3.45	1311
3508952	136	7.73	1.19	23	3.76	1325
3508953	261	8.48	1.27	30	4.35	1578
3508954	148	8.07	1.02	26	4.53	1562
3508955	191	7.84	1.15	21	4.01	1414
3508956	164	7.28	0.89	21	3.70	1314
3508957	122	5.99	4.44	16	1.95	1311
3508958	419	8.05	1.56	28	3.71	1644
3508959	509	9.11	1.26	25	3.68	1450

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05306

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508960	2300	5.69	3.64	14	1.19	605
3508961	128	9.90	1.06	25	4.41	1686
3508962	196	10.19	1.05	18	4.43	1827
3508963	155	8.52	1.99	24	3.63	1519
3508964	164	8.06	2.14	14	3.05	1416
3508965	341	9.93	1.64	17	3.82	1914
3508966	108	7.58	0.86	26	4.32	1812
3508967	145	7.59	3.79	36	4.43	2670
3508968	147	8.55	1.88	25	4.13	1786
*Dup 3508931	127	7.39	1.45	24	3.72	1250
*Rep 3508895	189	8.22	3.31	32	3.54	2359
*Std OREAS 601	950	2.48	2.09	21	0.38	474
*Std OREAS 520	2901	>15.00	3.57	19	1.18	2290
*Blk BLANK	0.9	0.01	<0.01	<1	<0.01	2
*Blk BLANK	<0.5	0.02	<0.01	<1	<0.01	3
*Rep 3508968	151	8.62	1.90	26	4.18	1796
*Std OREAS 601	970	2.49	2.18	21	0.36	466
*Std OREAS 520	2919	>15.00	3.60	18	1.15	2287
*Rep 3508943	156	7.55	1.39	20	3.34	1217
*Std OREAS 520	3014	>15.00	3.67	19	1.16	2231
*Blk BLANK	<0.5	<0.01	<0.01	<1	<0.01	<2
*Std OREAS 601	968	2.46	2.16	22	0.37	459

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508893	1.44	31	0.17	4.03	568	0.52
3508894	1.26	32	0.15	3.59	557	0.48
3508895	1.27	34	0.15	3.83	552	0.48
3508896	1.54	45	0.15	0.78	671	0.48
3508897	1.21	47	0.12	4.25	402	0.45
3508898	1.64	39	0.15	1.68	710	0.45
3508899	1.60	44	0.15	0.83	642	0.47
3508900	2.06	54	0.10	0.36	314	0.46
3508901	1.89	40	0.15	0.49	747	0.48
3508902	2.28	26	0.15	0.78	819	0.60
3508903	2.05	22	0.15	0.83	613	0.64
3508904	1.73	27	0.14	0.91	588	0.52
3508905	2.72	20	0.15	1.00	612	0.66
3508906	2.40	22	0.13	1.68	589	0.52
3508907	1.51	19	0.14	3.09	686	0.47
3508908	1.90	23	0.14	2.84	626	0.47
3508909	1.03	29	0.11	>5.00	264	0.33
3508910	0.01	<1	<0.01	0.02	44.4	<0.01
3508911	1.47	37	0.16	0.62	686	0.46
3508912	1.84	22	0.15	2.92	686	0.50
3508913	2.09	23	0.13	1.43	795	0.50
3508914	1.88	22	0.14	2.76	586	0.47
3508915	0.87	20	0.11	>5.00	277	0.30
3508916	2.28	24	0.13	1.25	648	0.52
3508917	2.09	22	0.13	0.76	771	0.52
3508918	2.19	23	0.14	1.16	746	0.51
3508919	2.08	24	0.13	0.86	817	0.49
3508920	2.01	54	0.10	0.37	309	0.46
3508921	2.09	23	0.15	1.61	684	0.52

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508922	1.89	24	0.14	2.07	765	0.49
3508923	2.10	28	0.13	0.69	735	0.49
3508924	2.13	22	0.13	0.89	791	0.51
3508925	2.26	24	0.14	1.44	720	0.50
3508926	1.97	23	0.13	1.31	852	0.50
3508927	2.40	22	0.13	0.96	710	0.48
3508928	2.30	24	0.13	0.94	786	0.47
3508929	2.06	28	0.14	2.53	768	0.50
3508930	0.01	<1	<0.01	<0.01	45.6	<0.01
3508931	1.94	26	0.14	0.77	774	0.51
3508932	1.94	28	0.14	0.95	796	0.53
3508933	1.81	32	0.15	0.62	730	0.58
3508934	1.85	28	0.14	0.82	919	0.48
3508935	1.72	28	0.14	0.91	974	0.47
3508936	1.45	4	0.31	1.34	738	0.40
3508937	2.23	13	0.23	2.13	731	0.42
3508938	2.08	4	0.14	0.96	407	0.34
3508939	2.04	4	0.13	1.60	273	0.34
3508940	2.09	56	0.10	0.35	319	0.46
3508941	1.67	24	0.15	2.01	1009	0.49
3508942	2.13	26	0.16	1.09	853	0.50
3508943	2.26	24	0.13	0.44	749	0.51
3508944	2.17	27	0.14	0.93	720	0.53
3508945	1.79	26	0.14	2.10	667	0.52
3508946	2.91	4	0.13	0.83	487	0.34
3508947	1.96	5	0.13	0.96	562	0.35
3508948	2.33	28	0.13	1.67	716	0.49
3508949	2.18	27	0.14	0.62	770	0.53
3508950	0.01	<1	<0.01	<0.01	44.6	<0.01

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508951	2.34	26	0.14	1.42	633	0.53
3508952	2.10	26	0.14	0.40	772	0.54
3508953	1.72	35	0.14	1.19	651	0.55
3508954	1.57	42	0.13	0.62	769	0.52
3508955	1.78	35	0.12	0.46	788	0.55
3508956	2.21	29	0.13	0.42	826	0.56
3508957	1.31	10	0.29	0.69	883	0.40
3508958	1.55	32	0.10	2.23	657	0.43
3508959	1.42	34	0.12	2.20	874	0.38
3508960	3.10	13	0.12	0.29	518	0.31
3508961	1.49	36	0.16	0.42	802	0.53
3508962	1.47	27	0.08	0.51	768	0.60
3508963	1.97	22	0.10	1.14	619	0.56
3508964	2.55	18	0.16	1.06	565	0.54
3508965	1.75	27	0.16	1.02	645	0.62
3508966	1.58	37	0.16	0.34	999	0.44
3508967	0.94	44	0.15	1.76	448	0.43
3508968	1.60	30	0.17	0.60	673	0.53
*Dup 3508931	1.97	26	0.14	0.75	802	0.52
*Rep 3508895	1.27	33	0.14	3.74	546	0.48
*Std OREAS 601	1.39	23	0.04	1.13	216	0.17
*Std OREAS 520	1.37	73	0.07	1.04	100	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.8	<0.01
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Rep 3508968	1.62	29	0.17	0.60	677	0.53
*Std OREAS 601	1.45	24	0.04	1.06	220	0.17
*Std OREAS 520	1.38	74	0.07	1.06	100	0.40
*Rep 3508943	2.27	25	0.13	0.44	739	0.52
*Std OREAS 520	1.42	73	0.07	0.96	103	0.40

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 601	1.44	23	0.05	1.05	224	0.17

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508893	361	749	19.2	0.59	32	0.8
3508894	290	131	21.8	0.32	19	1.0
3508895	297	121	17.6	0.36	21	1.0
3508896	318	84	26.8	0.24	5	0.5
3508897	311	80	21.9	0.76	6	1.5
3508898	293	72	22.9	0.38	7	0.8
3508899	304	83	26.0	0.20	7	0.7
3508900	117	72	72.7	0.41	27	3.2
3508901	298	76	28.6	0.16	6	0.8
3508902	317	71	21.8	0.16	6	1.1
3508903	333	77	23.2	0.32	6	0.8
3508904	332	82	28.4	0.46	6	0.7
3508905	306	80	24.4	0.16	7	0.9
3508906	317	69	24.7	0.20	8	1.1
3508907	358	67	26.3	0.29	9	2.6
3508908	301	67	24.1	0.27	11	1.1
3508909	278	98	22.3	1.03	46	1.3
3508910	2	3	<0.5	0.05	<1	<0.1
3508911	302	112	43.0	0.09	6	1.0
3508912	292	71	24.3	0.25	8	0.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508913	317	68	26.8	0.19	6	0.7
3508914	282	74	23.1	0.20	8	0.9
3508915	297	89	19.3	3.98	26	2.1
3508916	330	82	24.1	0.22	8	1.0
3508917	350	74	24.3	0.19	6	0.9
3508918	350	74	27.1	0.32	6	1.3
3508919	313	79	21.7	0.14	6	1.2
3508920	120	73	74.9	0.41	22	3.3
3508921	331	97	19.0	0.20	6	0.9
3508922	340	96	23.5	0.26	9	1.0
3508923	309	57	19.8	0.14	5	0.8
3508924	321	59	20.7	0.15	5	0.8
3508925	320	65	21.8	0.17	6	0.9
3508926	334	56	24.4	0.21	5	1.4
3508927	305	62	20.5	0.41	4	0.9
3508928	293	58	29.6	0.09	5	1.2
3508929	317	75	20.3	0.18	7	0.8
3508930	<2	3	<0.5	<0.02	<1	<0.1
3508931	331	69	20.3	0.10	4	1.0
3508932	329	75	21.2	0.09	5	0.7
3508933	378	69	19.5	0.09	5	0.6
3508934	327	62	20.7	0.06	5	0.9
3508935	328	57	21.2	0.07	5	0.8
3508936	212	38	36.1	0.03	6	1.4
3508937	253	47	25.8	0.09	6	1.5
3508938	136	22	38.0	<0.02	5	1.2
3508939	133	25	46.0	0.41	6	0.8
3508940	123	75	74.7	0.24	25	3.3
3508941	324	49	19.1	0.20	7	0.9

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508942	328	69	21.6	0.16	7	0.8
3508943	328	69	23.7	0.09	4	0.8
3508944	349	71	19.0	0.10	5	0.9
3508945	349	67	17.4	0.07	5	0.7
3508946	128	14	34.6	<0.02	3	1.1
3508947	149	15	73.5	0.03	4	1.0
3508948	324	49	21.5	0.12	5	0.6
3508949	338	48	19.6	0.09	4	0.6
3508950	<2	3	<0.5	<0.02	<1	<0.1
3508951	326	51	16.1	0.15	4	0.6
3508952	349	56	17.8	0.09	3	0.5
3508953	362	73	18.7	0.20	3	0.8
3508954	370	71	17.5	0.10	4	0.4
3508955	367	76	15.2	0.12	5	0.4
3508956	349	64	18.9	0.10	4	0.6
3508957	217	72	40.4	0.05	6	1.4
3508958	306	96	16.1	0.32	5	0.7
3508959	292	88	13.4	0.42	6	0.5
3508960	227	49	39.1	0.53	18	1.2
3508961	352	98	18.2	0.10	7	0.5
3508962	437	104	25.7	0.19	5	0.7
3508963	392	97	23.7	0.14	6	0.7
3508964	327	84	22.2	0.15	6	0.9
3508965	426	102	26.2	0.37	7	0.7
3508966	309	104	19.8	0.10	4	0.7
3508967	379	169	19.4	0.28	11	2.3
3508968	403	120	28.1	0.17	5	1.1
*Dup 3508931	330	67	18.2	0.10	4	0.9
*Rep 3508895	291	120	21.7	0.36	20	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05306

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	27	1231	151	47.99	301	2.4
*Std OREAS 520	261	21	121	0.41	151	1.2
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Rep 3508968	391	122	24.2	0.23	6	1.2
*Std OREAS 601	26	1248	152	49.59	302	2.3
*Std OREAS 520	259	22	132	0.42	146	1.0
*Rep 3508943	327	70	20.6	0.10	4	0.8
*Std OREAS 520	259	22	128	0.36	161	1.1
*Blk BLANK	<2	<1	<0.5	0.04	<1	<0.1
*Std OREAS 601	27	1250	154	49.37	296	2.3

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508893	0.42	6.54	14.84	45.6	2	18.1
3508894	0.61	0.49	19.30	40.0	2	18.4
3508895	0.60	0.37	19.53	43.0	2	19.3
3508896	0.07	0.16	15.07	44.6	<1	16.5
3508897	0.28	0.19	14.84	79.9	2	17.1
3508898	0.15	0.12	18.07	35.9	<1	17.6
3508899	0.08	0.15	16.78	38.6	<1	17.3
3508900	0.65	0.24	74.94	15.4	17	18.3
3508901	0.06	0.14	18.27	38.7	<1	17.2
3508902	0.11	0.13	21.85	30.7	<1	18.8
3508903	0.09	0.17	18.73	33.5	<1	18.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508904	0.07	0.21	18.18	42.4	<1	17.9
3508905	0.08	0.07	21.05	25.5	1	18.0
3508906	0.12	0.09	16.73	28.7	2	17.4
3508907	0.19	0.10	18.70	34.7	<1	18.9
3508908	0.21	0.09	17.36	31.1	1	16.8
3508909	0.94	0.30	13.25	45.9	5	16.1
3508910	<0.04	0.03	0.96	1.1	<1	0.5
3508911	0.10	0.04	22.09	30.1	2	17.6
3508912	0.22	0.10	19.02	33.7	1	17.0
3508913	0.10	0.08	16.76	29.0	<1	17.4
3508914	0.15	0.09	18.24	29.5	<1	17.2
3508915	0.58	1.26	14.11	34.8	5	18.8
3508916	0.06	0.13	15.57	33.9	<1	17.7
3508917	0.04	0.14	15.69	33.7	<1	17.2
3508918	0.06	0.14	16.38	34.2	<1	17.7
3508919	0.07	0.14	17.29	28.7	<1	18.0
3508920	0.67	0.25	73.46	15.3	13	18.2
3508921	0.08	0.22	18.23	32.8	<1	17.3
3508922	0.16	0.20	16.70	31.9	<1	17.4
3508923	<0.04	0.11	17.67	29.9	<1	17.4
3508924	<0.04	0.14	17.29	31.7	<1	17.5
3508925	0.05	0.12	17.09	33.2	<1	17.6
3508926	0.07	0.12	16.76	35.1	<1	18.0
3508927	0.06	0.10	17.17	28.5	<1	16.5
3508928	0.06	0.16	17.27	30.2	<1	17.1
3508929	0.14	0.18	15.38	37.2	<1	17.4
3508930	<0.04	0.03	0.88	1.0	<1	0.4
3508931	0.06	0.15	15.24	32.2	<1	17.9
3508932	0.07	0.15	16.10	35.9	1	18.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508933	0.05	0.14	14.36	38.0	<1	18.4
3508934	0.07	0.12	14.00	36.6	<1	18.8
3508935	0.07	0.10	13.20	35.3	<1	17.6
3508936	0.10	0.08	27.97	23.4	<1	18.4
3508937	0.16	0.09	23.53	29.0	<1	18.0
3508938	0.07	0.07	24.89	10.2	<1	18.3
3508939	0.10	0.07	25.60	11.2	<1	15.7
3508940	0.65	0.22	70.73	15.6	12	17.6
3508941	0.13	0.18	17.33	38.8	<1	20.1
3508942	0.07	0.19	17.06	36.0	<1	18.5
3508943	<0.04	0.23	16.42	31.9	<1	17.5
3508944	0.07	0.15	15.43	36.5	<1	17.7
3508945	0.09	0.11	13.05	31.6	<1	15.9
3508946	0.05	0.06	23.98	9.4	<1	17.5
3508947	0.07	0.06	26.07	13.4	<1	21.2
3508948	0.09	0.11	15.02	36.9	<1	17.7
3508949	<0.04	0.11	15.73	35.8	<1	17.0
3508950	<0.04	0.03	0.94	1.1	<1	0.4
3508951	0.07	0.12	14.57	46.6	<1	16.7
3508952	<0.04	0.11	15.35	34.8	<1	17.3
3508953	0.08	0.16	13.64	42.2	<1	17.4
3508954	0.05	0.14	12.80	36.4	<1	17.5
3508955	<0.04	0.19	13.18	36.0	<1	18.5
3508956	<0.04	0.16	16.48	33.1	<1	18.3
3508957	0.10	0.08	27.51	27.0	1	16.8
3508958	0.15	0.22	11.80	47.2	<1	17.6
3508959	0.13	0.22	11.07	56.5	<1	18.0
3508960	0.16	0.21	24.47	15.4	2	18.6
3508961	0.05	0.16	14.51	40.9	<1	18.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05306

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508962	0.04	0.22	13.66	38.2	<1	18.8
3508963	0.08	0.16	15.71	37.6	<1	19.2
3508964	0.07	0.13	22.50	37.1	<1	18.9
3508965	0.07	0.23	17.63	40.5	<1	17.8
3508966	<0.04	0.20	16.58	34.9	<1	15.4
3508967	0.30	0.41	16.34	37.5	5	16.3
3508968	0.05	0.18	18.22	39.0	<1	17.5
*Dup 3508931	0.05	0.14	14.17	28.8	<1	16.5
*Rep 3508895	0.61	0.36	19.31	40.5	2	18.8
*Std OREAS 601	19.30	7.54	62.99	5.7	7	20.3
*Std OREAS 520	2.82	0.08	85.84	194	<1	18.3
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	0.2
*Blk BLANK	<0.04	<0.02	0.06	0.2	<1	<0.1
*Rep 3508968	0.06	0.19	18.70	39.4	1	17.5
*Std OREAS 601	18.73	7.91	60.48	5.9	8	19.6
*Std OREAS 520	2.77	0.05	82.55	195	<1	16.7
*Rep 3508943	<0.04	0.24	16.62	32.9	<1	17.4
*Std OREAS 520	2.90	0.08	85.76	196	<1	18.3
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.87	7.72	66.27	5.6	7	20.7

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508893	0.64	0.11	6.9	0.21	5.49	2.4
3508894	0.76	0.07	9.3	0.23	19.49	3.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508895	0.77	0.07	9.4	0.24	18.84	3.7
3508896	0.87	0.06	7.1	0.22	1.94	2.7
3508897	0.79	0.05	6.8	0.21	6.99	3.8
3508898	0.87	0.07	9.0	0.23	4.23	4.1
3508899	1.00	0.07	8.2	0.23	2.57	3.6
3508900	2.33	0.08	55.7	0.36	99.03	18.8
3508901	0.96	0.07	9.0	0.24	3.04	3.9
3508902	0.92	0.07	10.3	0.27	3.46	5.5
3508903	0.88	0.07	8.7	0.27	2.26	4.1
3508904	0.95	0.07	8.6	0.28	2.27	4.4
3508905	0.85	0.07	9.8	0.27	2.04	5.4
3508906	0.88	0.06	8.0	0.22	1.80	3.4
3508907	0.92	0.06	9.3	0.23	3.65	4.0
3508908	0.84	0.05	8.6	0.22	4.38	3.6
3508909	0.64	0.06	5.9	0.16	194	2.6
3508910	<0.02	<0.02	0.6	<0.01	0.31	<0.1
3508911	1.20	0.06	10.7	0.22	3.33	4.2
3508912	0.82	0.07	9.4	0.24	4.49	4.2
3508913	0.85	0.07	8.1	0.25	1.60	3.2
3508914	0.75	0.06	8.8	0.23	6.22	4.3
3508915	0.61	0.05	5.8	0.17	1430	2.9
3508916	0.89	0.06	7.6	0.25	3.51	2.8
3508917	0.87	0.06	7.5	0.25	0.90	2.7
3508918	0.84	0.06	8.1	0.25	2.41	2.9
3508919	0.89	0.07	8.6	0.25	1.72	3.1
3508920	2.38	0.07	36.9	0.37	101	19.0
3508921	0.89	0.06	8.8	0.25	1.95	3.7
3508922	0.88	0.06	8.2	0.24	2.00	2.9
3508923	0.90	0.06	8.7	0.24	0.98	3.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508924	0.87	0.06	8.5	0.25	1.19	3.2
3508925	0.87	0.06	8.5	0.25	1.40	3.2
3508926	0.89	0.06	8.3	0.24	1.64	3.0
3508927	0.83	0.06	8.3	0.24	2.09	2.9
3508928	0.92	0.06	8.6	0.25	2.53	4.2
3508929	0.73	0.07	7.6	0.23	2.12	2.4
3508930	<0.02	<0.02	0.5	<0.01	<0.05	<0.1
3508931	0.79	0.06	7.3	0.24	1.01	2.5
3508932	0.82	0.06	7.6	0.24	2.42	2.9
3508933	0.77	0.07	6.6	0.24	1.27	2.3
3508934	0.82	0.07	6.7	0.22	4.33	2.6
3508935	0.73	0.07	6.4	0.20	4.20	2.3
3508936	1.15	0.06	14.4	0.22	2.23	7.2
3508937	0.93	0.06	11.6	0.22	2.50	4.7
3508938	1.22	0.04	13.4	0.23	3.64	7.9
3508939	1.22	0.03	13.6	0.21	4.59	7.8
3508940	2.57	0.07	35.9	0.36	104	19.3
3508941	0.84	0.08	8.5	0.24	4.20	3.4
3508942	0.89	0.08	8.2	0.25	3.10	2.5
3508943	0.88	0.06	8.0	0.24	1.88	2.5
3508944	0.84	0.07	7.5	0.24	3.32	2.5
3508945	0.70	0.06	6.3	0.21	1.94	2.1
3508946	1.18	0.03	12.6	0.21	5.50	8.5
3508947	1.34	0.06	14.1	0.25	3.13	8.1
3508948	0.79	0.07	7.3	0.24	8.72	2.8
3508949	0.81	0.06	7.5	0.24	2.55	2.1
3508950	<0.02	<0.02	0.5	<0.01	<0.05	<0.1
3508951	0.73	0.05	7.0	0.23	2.56	1.8
3508952	0.76	0.06	7.4	0.23	1.27	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508953	0.77	0.07	6.4	0.24	2.44	1.6
3508954	0.81	0.08	6.0	0.22	2.51	1.4
3508955	0.76	0.08	6.1	0.21	1.56	1.4
3508956	0.87	0.08	8.0	0.22	1.59	2.4
3508957	1.18	0.05	14.4	0.23	1.15	6.5
3508958	0.74	0.07	5.6	0.20	4.02	1.9
3508959	0.68	0.07	5.3	0.18	4.57	1.8
3508960	1.40	0.11	12.4	0.36	11.47	3.1
3508961	0.83	0.07	6.9	0.21	2.24	2.2
3508962	1.01	0.08	6.1	0.24	1.87	3.4
3508963	0.90	0.06	7.7	0.23	4.98	4.1
3508964	0.91	0.06	11.0	0.27	1.67	5.0
3508965	0.94	0.07	8.1	0.26	1.55	3.8
3508966	0.88	0.07	7.7	0.22	1.58	2.0
3508967	0.81	0.07	7.4	0.21	3.96	2.1
3508968	0.94	0.07	8.4	0.24	3.15	2.9
*Dup 3508931	0.72	0.06	6.7	0.22	0.94	2.3
*Rep 3508895	0.77	0.07	9.3	0.24	18.40	3.6
*Std OREAS 601	4.42	1.79	33.7	0.10	4.02	12.9
*Std OREAS 520	3.72	0.12	88.0	0.36	65.24	4.9
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Rep 3508968	0.96	0.08	8.5	0.23	3.20	3.0
*Std OREAS 601	4.50	1.76	29.5	0.11	3.76	12.8
*Std OREAS 520	3.73	0.12	81.5	0.36	66.98	5.2
*Rep 3508943	0.86	0.06	8.3	0.25	1.95	2.6
*Std OREAS 520	3.74	0.13	87.5	0.36	66.61	5.2
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.59	1.77	33.9	0.11	3.87	13.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508893	7.0	76.8	34.6	3	2.03	1.0
3508894	7.2	80.6	32.3	3	1.71	1.0
3508895	7.3	82.8	34.4	3	1.75	1.0
3508896	4.0	35.2	44.3	<2	1.50	0.8
3508897	4.4	63.8	41.5	5	1.09	1.0
3508898	5.5	41.1	39.4	<2	1.73	0.9
3508899	4.7	31.4	43.3	<2	2.20	0.9
3508900	22.9	190	14.1	2	2.22	3.4
3508901	4.9	38.1	38.2	<2	2.45	0.8
3508902	4.9	43.3	30.8	<2	2.00	1.1
3508903	4.2	51.0	33.9	<2	0.95	1.0
3508904	3.9	49.0	37.7	2	1.46	0.8
3508905	3.9	47.6	30.5	<2	2.20	1.0
3508906	6.1	59.5	32.9	<2	2.49	0.8
3508907	6.4	69.4	30.2	3	1.89	0.9
3508908	5.5	63.0	31.6	2	1.75	0.9
3508909	18.1	128	26.7	5	1.19	0.8
3508910	1.7	1.4	<0.5	<2	0.07	<0.3
3508911	4.4	67.9	37.8	<2	1.43	0.8
3508912	6.3	65.2	34.5	2	1.51	1.0
3508913	4.5	42.2	35.4	<2	1.31	0.9
3508914	5.4	65.7	31.9	3	1.50	1.0
3508915	51.0	121	25.5	7	2.12	0.8
3508916	5.1	42.5	39.7	<2	1.09	0.8
3508917	4.7	44.5	39.4	<2	0.86	0.8
3508918	4.6	44.6	39.0	<2	1.12	0.8
3508919	5.5	41.7	36.7	<2	1.38	0.8
3508920	22.6	201	14.3	2	2.30	3.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508921	7.2	46.8	32.8	3	1.64	0.8
3508922	9.4	48.4	36.5	3	1.52	0.8
3508923	4.4	48.9	34.4	<2	1.00	0.7
3508924	4.7	40.2	36.5	<2	1.24	0.8
3508925	5.6	38.7	36.9	2	1.33	0.9
3508926	4.8	45.7	35.8	2	1.29	0.8
3508927	4.4	39.1	34.3	<2	1.22	0.8
3508928	4.8	41.8	33.9	<2	1.26	0.7
3508929	4.4	45.3	37.3	4	1.53	0.9
3508930	1.6	1.0	<0.5	<2	0.08	<0.3
3508931	3.5	51.8	38.0	<2	0.93	0.7
3508932	3.8	54.3	37.7	<2	1.24	0.8
3508933	3.7	47.4	39.3	<2	1.15	0.7
3508934	4.5	37.6	38.1	<2	1.24	0.8
3508935	4.4	34.7	35.2	<2	1.14	0.8
3508936	5.5	109	9.8	<2	0.93	0.9
3508937	5.2	78.8	20.6	2	1.16	0.8
3508938	4.1	135	11.7	<2	0.66	0.9
3508939	5.7	121	11.0	<2	0.60	0.8
3508940	23.0	156	14.1	2	2.07	3.3
3508941	7.2	31.7	34.2	3	1.35	1.0
3508942	5.4	26.6	36.2	<2	1.22	0.9
3508943	4.6	36.1	36.8	<2	0.88	0.7
3508944	4.4	37.7	39.6	<2	1.35	0.8
3508945	3.6	46.7	35.6	2	1.60	0.8
3508946	3.2	86.4	10.5	<2	0.87	1.0
3508947	4.1	121	12.8	<2	0.94	1.1
3508948	3.6	36.1	37.7	3	1.23	0.9
3508949	3.2	35.4	38.8	<2	0.95	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508950	1.5	1.0	<0.5	<2	0.05	<0.3
3508951	2.6	43.9	37.0	<2	0.80	0.8
3508952	2.7	38.2	37.6	<2	0.65	0.7
3508953	3.0	41.3	43.1	<2	0.90	0.8
3508954	3.2	36.8	45.6	<2	0.95	0.7
3508955	4.1	37.9	40.2	<2	1.05	0.7
3508956	4.1	30.3	39.1	<2	0.99	0.8
3508957	5.3	87.1	14.4	<2	0.72	0.8
3508958	4.9	54.2	39.6	3	1.14	0.7
3508959	5.9	33.9	34.4	4	1.74	0.7
3508960	7.3	83.0	11.2	3	0.78	2.2
3508961	4.1	33.4	42.2	<2	1.39	0.9
3508962	6.3	24.6	45.2	<2	1.64	0.9
3508963	4.0	51.2	35.4	<2	1.39	0.8
3508964	4.8	53.1	30.5	<2	1.34	0.9
3508965	5.2	39.9	36.5	<2	1.48	1.0
3508966	6.0	21.8	38.2	<2	1.57	0.7
3508967	17.8	129	43.2	2	1.08	1.0
3508968	7.8	48.9	38.6	<2	1.37	0.9
*Dup 3508931	3.4	48.2	35.5	<2	0.88	0.6
*Rep 3508895	7.3	80.5	33.1	3	1.72	1.0
*Std OREAS 601	315	94.7	5.4	12	31.71	4.3
*Std OREAS 520	7.0	110	17.7	<2	3.19	4.7
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Rep 3508968	8.1	49.7	39.1	<2	1.35	1.0
*Std OREAS 601	304	87.0	4.9	11	30.47	4.3
*Std OREAS 520	6.9	104	16.6	<2	3.21	4.6
*Rep 3508943	4.5	36.5	37.5	<2	0.91	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	6.9	110	17.6	<2	3.20	4.6
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	320	93.3	5.2	11	29.97	4.1

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508893	0.17	0.53	0.34	0.8	0.35	0.46
3508894	0.23	0.59	0.20	1.1	0.37	0.68
3508895	0.24	0.59	0.20	1.1	0.38	0.68
3508896	0.15	0.53	0.09	0.7	0.14	0.34
3508897	0.22	0.50	0.34	1.1	0.31	0.73
3508898	0.24	0.54	0.16	1.3	0.17	0.71
3508899	0.22	0.54	0.10	1.2	0.14	0.64
3508900	1.41	0.89	0.27	19.7	0.94	5.15
3508901	0.24	0.56	0.09	1.2	0.16	0.59
3508902	0.35	0.67	0.10	1.2	0.21	0.63
3508903	0.25	0.65	0.10	0.8	0.23	0.41
3508904	0.26	0.64	0.13	1.1	0.21	0.54
3508905	0.34	0.68	0.11	0.9	0.20	0.47
3508906	0.21	0.53	0.14	0.8	0.25	0.45
3508907	0.23	0.56	0.24	1.2	0.30	0.92
3508908	0.21	0.52	0.27	1.2	0.30	0.70
3508909	0.15	0.39	0.65	0.9	0.99	0.75
3508910	<0.05	<0.05	<0.05	<0.2	<0.02	0.05
3508911	0.25	0.54	0.08	1.7	0.35	0.86

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508912	0.27	0.56	0.22	1.4	0.29	0.74
3508913	0.20	0.54	0.17	1.1	0.17	0.56
3508914	0.27	0.56	0.30	1.4	0.27	0.68
3508915	0.16	0.42	0.76	1.2	3.16	1.35
3508916	0.19	0.55	0.25	1.2	0.18	0.58
3508917	0.17	0.54	0.12	1.1	0.19	0.41
3508918	0.18	0.53	0.13	1.1	0.19	0.57
3508919	0.20	0.54	0.11	1.2	0.18	0.69
3508920	1.45	0.90	0.26	19.7	0.93	5.82
3508921	0.24	0.56	0.16	1.4	0.21	0.74
3508922	0.18	0.54	0.23	1.1	0.23	0.66
3508923	0.22	0.53	0.08	1.4	0.21	0.74
3508924	0.21	0.53	0.12	1.1	0.18	0.61
3508925	0.20	0.54	0.16	1.3	0.17	0.62
3508926	0.18	0.53	0.14	1.1	0.19	0.65
3508927	0.19	0.52	0.10	1.2	0.16	0.64
3508928	0.45	0.53	0.11	1.4	0.20	0.65
3508929	0.19	0.50	0.26	0.7	0.21	0.41
3508930	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
3508931	0.21	0.55	0.10	0.7	0.25	0.38
3508932	0.24	0.53	0.12	0.9	0.27	0.46
3508933	0.17	0.55	0.06	0.7	0.20	0.35
3508934	0.17	0.51	0.08	0.6	0.16	0.33
3508935	0.17	0.45	0.09	0.6	0.14	0.30
3508936	0.45	0.58	0.12	3.1	0.47	1.59
3508937	0.31	0.56	0.22	2.2	0.34	1.07
3508938	0.50	0.57	0.12	2.6	0.57	1.36
3508939	0.50	0.55	0.14	2.6	0.57	1.35
3508940	1.50	0.88	0.24	19.5	0.98	5.64

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508941	0.21	0.58	0.18	1.1	0.13	0.71
3508942	0.17	0.58	0.10	0.9	0.12	0.51
3508943	0.18	0.53	<0.05	0.9	0.16	0.46
3508944	0.18	0.54	0.10	0.9	0.17	0.54
3508945	0.14	0.49	0.22	0.7	0.21	0.43
3508946	0.52	0.55	0.07	2.3	0.48	1.32
3508947	0.51	0.60	0.09	2.7	0.57	1.79
3508948	0.18	0.53	0.16	0.8	0.16	0.38
3508949	0.14	0.55	0.08	0.6	0.17	0.32
3508950	<0.05	<0.05	<0.05	<0.2	<0.02	0.07
3508951	0.12	0.52	0.13	0.5	0.22	0.30
3508952	0.11	0.54	0.05	0.4	0.19	0.20
3508953	0.10	0.56	0.13	0.4	0.20	0.29
3508954	0.10	0.54	0.08	0.4	0.16	0.26
3508955	0.10	0.54	0.06	0.3	0.16	0.16
3508956	0.16	0.57	<0.05	0.5	0.12	0.27
3508957	0.40	0.57	0.06	3.1	0.48	1.81
3508958	0.12	0.50	0.18	0.6	0.23	0.33
3508959	0.12	0.45	0.24	0.5	0.19	0.32
3508960	0.20	0.62	0.07	1.9	0.24	1.25
3508961	0.14	0.55	0.08	0.7	0.13	0.35
3508962	0.22	0.56	0.09	1.1	0.10	0.53
3508963	0.25	0.55	0.14	1.3	0.22	0.57
3508964	0.31	0.64	0.10	1.6	0.23	0.71
3508965	0.24	0.62	0.09	1.2	0.18	0.56
3508966	0.13	0.54	<0.05	0.7	0.09	0.38
3508967	0.10	0.55	0.16	0.6	0.69	0.70
3508968	0.15	0.59	0.07	1.0	0.23	0.56
*Dup 3508931	0.22	0.49	0.09	0.6	0.22	0.33

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Rep 3508895	0.24	0.59	0.20	1.1	0.39	0.68
*Std OREAS 601	1.00	0.58	15.64	11.2	1.15	3.94
*Std OREAS 520	0.38	0.71	0.39	9.9	0.25	18.39
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Rep 3508968	0.17	0.59	0.08	0.9	0.24	0.56
*Std OREAS 601	1.04	0.58	15.28	10.2	1.18	3.78
*Std OREAS 520	0.39	0.70	0.34	10.2	0.25	17.82
*Rep 3508943	0.18	0.55	0.06	0.9	0.16	0.47
*Std OREAS 520	0.44	0.72	0.36	10.7	0.26	18.84
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	1.05	0.60	15.19	11.6	1.15	4.06

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508893	1.7	16.1	1.5
3508894	2.2	18.5	1.6
3508895	2.3	18.6	1.7
3508896	0.7	17.1	1.5
3508897	1.2	16.3	1.4
3508898	1.4	17.0	1.5
3508899	1.3	17.1	1.6
3508900	4.5	26.2	2.5
3508901	1.2	17.8	1.6
3508902	1.5	20.6	1.9
3508903	0.9	20.2	1.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(77-152)
Number of Samples 76

ANALYSIS REPORT BBM20-05306

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508904	0.7	20.3	1.8
3508905	2.9	20.5	1.9
3508906	2.5	17.4	1.5
3508907	2.8	16.9	1.5
3508908	1.7	17.0	1.5
3508909	3.6	11.9	1.1
3508910	<0.1	0.3	<0.1
3508911	1.2	16.6	1.5
3508912	1.8	18.5	1.7
3508913	1.4	17.7	1.6
3508914	1.6	18.4	1.7
3508915	3.1	13.3	1.2
3508916	1.0	18.1	1.7
3508917	0.6	17.6	1.7
3508918	0.7	17.7	1.6
3508919	1.0	17.3	1.6
3508920	4.9	27.2	2.5
3508921	1.1	17.8	1.7
3508922	0.9	16.9	1.6
3508923	0.6	17.5	1.6
3508924	0.5	17.3	1.6
3508925	0.8	17.6	1.6
3508926	1.1	17.7	1.6
3508927	1.6	17.2	1.6
3508928	0.8	18.0	1.7
3508929	1.0	17.1	1.6
3508930	<0.1	0.3	<0.1
3508931	0.7	17.6	1.6
3508932	0.9	16.5	1.6
3508933	1.0	16.8	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05306

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508934	0.9	16.3	1.5
3508935	0.8	14.8	1.3
3508936	1.5	18.4	1.6
3508937	1.6	17.4	1.6
3508938	2.0	18.7	1.6
3508939	3.2	18.1	1.6
3508940	5.8	25.2	2.5
3508941	1.8	18.4	1.7
3508942	1.4	18.0	1.6
3508943	0.7	17.6	1.6
3508944	1.2	16.7	1.6
3508945	1.3	15.1	1.4
3508946	1.6	17.1	1.5
3508947	1.9	19.4	1.8
3508948	0.9	17.1	1.6
3508949	0.8	17.3	1.6
3508950	<0.1	0.3	<0.1
3508951	1.1	16.7	1.6
3508952	0.6	16.6	1.6
3508953	1.1	17.8	1.6
3508954	0.9	17.1	1.5
3508955	0.8	15.4	1.4
3508956	0.8	17.0	1.5
3508957	2.0	17.0	1.6
3508958	1.4	14.9	1.4
3508959	1.0	13.2	1.2
3508960	1.0	20.9	2.3
3508961	1.3	16.7	1.5
3508962	1.1	17.6	1.7
3508963	1.2	16.8	1.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (77-152)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05306

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508964	1.0	19.5	1.8
3508965	1.1	18.1	1.7
3508966	0.8	15.9	1.4
3508967	1.6	16.4	1.4
3508968	1.2	17.4	1.6
*Dup 3508931	0.6	16.0	1.5
*Rep 3508895	2.3	18.0	1.7
*Std OREAS 601	5.6	11.9	0.7
*Std OREAS 520	44.9	21.8	2.3
*Blk BLANK	<0.1	<0.1	<0.1
*Blk BLANK	<0.1	<0.1	<0.1
*Rep 3508968	1.2	17.5	1.6
*Std OREAS 601	5.8	10.9	0.7
*Std OREAS 520	45.3	21.5	2.3
*Rep 3508943	0.7	17.2	1.6
*Std OREAS 520	46.9	21.9	2.3
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.8	11.8	0.7

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05307

To THOMPSON CREEK METALS
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PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	26-Oct-2020
Project	MAX	Date Analysed	29-Oct-2020 - 07-Nov-2020
Submission Number (153-228)	*BBY*MAX20_Core_17/ 256 Cores	Date Completed	07-Nov-2020
		SGS Order Number	BBM20-05307
Number of Samples	76		

Methods Summary

Number of Sample	Method Code	Description
76	G_WGH_KG	Weight of samples received
70	G_PRP	Combined Sample Preparation
76	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
76	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
76	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
76	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508969	5.54	<5	7.62	460	8.97	89
3508970	1.19	9	0.06	6	>15.00	2
3508971	5.45	<5	7.16	462	9.00	82
3508972	5.14	7	7.39	801	8.47	55
3508973	5.51	6	7.07	1113	6.87	50
3508974	5.16	7	8.56	1214	6.42	26
3508975	-	6	8.43	1231	6.14	29
3508976	5.45	12	7.09	782	7.44	63
3508977	5.28	6	8.29	915	7.68	51
3508978	5.55	7	8.08	777	8.13	72
3508979	5.65	6	7.99	746	7.46	48
3508980	0.15	219	7.81	968	2.49	70
3508981	4.99	6	7.85	522	8.14	57
3508982	5.45	<5	8.31	875	7.01	38
3508983	5.74	14	8.41	658	7.64	36
3508984	6.14	<5	7.93	496	8.59	44
3508985	6.26	11	8.07	1944	1.97	5
3508986	5.99	<5	8.33	835	7.59	39
3508987	5.48	7	7.49	760	8.19	53
3508988	4.85	6	8.69	967	6.51	44
3508989	5.07	12	8.41	527	7.86	44
3508990	1.25	7	0.09	7	>15.00	<1
3508991	5.12	9	8.90	739	7.74	42
3508992	5.52	6	8.64	1094	7.52	52
3508993	5.82	<5	8.21	916	7.87	46
3508994	6.33	7	8.04	748	7.56	87
3508995	5.26	<5	7.61	548	7.66	65
3508996	5.14	<5	8.38	610	7.73	47
3508997	5.25	<5	8.70	683	7.18	54

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Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3508998	4.98	5	10.18	582	7.52	27
3508999	4.28	11	9.77	637	6.95	36
3509000	0.15	222	7.88	978	2.49	62
3509001	5.44	5	9.25	508	7.41	35
3509002	4.82	38	9.88	510	6.91	27
3509003	4.99	7	8.92	531	7.14	27
3509004	4.49	<5	8.70	385	7.14	50
3509005	5.39	6	8.58	1565	4.74	6
3509006	5.78	143	8.78	851	6.79	30
3509007	5.30	<5	8.28	626	7.30	41
3509008	4.36	<5	7.89	773	7.96	36
3509009	6.34	13	7.73	635	7.98	68
3509010	1.15	6	0.08	7	>15.00	1
3509011	5.06	9	6.67	388	9.12	110
3509012	5.40	8	6.76	307	9.50	76
3509013	5.61	7	7.58	462	8.44	32
3509014	3.40	5	7.21	185	6.54	24
3509015	-	12	7.07	816	6.54	26
3509016	6.29	<5	6.82	303	9.02	40
3509017	5.34	<5	6.52	445	8.04	55
3509018	5.20	9	6.10	396	8.86	145
3509019	5.11	20	6.47	365	8.40	169
3509020	0.15	225	7.88	976	2.57	66
3509021	4.79	18	6.38	261	9.12	55
3509022	5.01	9	6.93	269	8.95	144
3509023	4.73	14	6.66	270	8.65	43
3509024	5.16	10	7.51	319	8.78	58
3509025	5.31	7	8.13	431	7.61	110
3509026	5.30	5	6.76	373	8.71	186

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3509027	5.26	13	7.04	388	8.97	148
3509028	5.29	17	7.26	371	8.28	134
3509029	5.19	19	6.73	318	8.99	220
3509030	1.28	9	0.08	6	>15.00	1
3509031	5.25	12	7.53	419	8.65	120
3509032	4.99	8	8.00	336	7.96	36
3509033	6.20	<5	8.89	1092	6.11	20
3509034	5.88	14	8.39	841	5.25	19
3509035	3.43	11	8.63	564	7.27	28
3509036	4.78	12	7.89	717	6.82	36
3509037	5.00	16	7.99	681	6.98	63
3509038	4.85	7	7.90	692	6.92	61
3509039	5.15	11	8.00	524	7.42	57
3509040	0.15	666	6.96	905	2.51	61
3509041	4.75	6	7.82	662	7.27	61
3509042	4.84	7	7.95	593	7.03	54
3509043	5.02	<5	7.96	615	7.03	57
3509044	4.66	6	8.11	627	6.23	53
*Std OREAS 520	-	-	5.93	1027	3.82	32
*Rep 3508981	-	-	7.97	519	8.02	57
*Std OREAS 601	-	-	6.30	2510	1.21	34
*Blk BLANK	-	-	0.01	1	0.01	<1
*Std OXG123	-	1000	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-
*Std OREAS 520	-	-	5.81	994	3.81	32
*Blk BLANK	-	-	<0.01	<1	0.01	1
*Std OREAS 601	-	-	6.48	997	1.21	26
*Blk BLANK	-	7	-	-	-	-
*Rep 3508979	-	6	-	-	-	-

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Order Number	PO: M24987
Project	MAX
Submission Number (153-228)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05307

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Std OXG123	-	968	-	-	-	-
*Std GS-9B	-	8890	-	-	-	-
*Rep 3508999	-	11	-	-	-	-
*Blk BLANK	-	7	-	-	-	-
*Std SL76	-	5970	-	-	-	-
*Rep 3509027	-	14	-	-	-	-
*Blk BLANK	-	-	0.01	2	0.01	<1
*Std OREAS 601	-	-	6.27	1796	1.24	32
*Rep 3509033	-	-	9.04	1100	6.05	19
*Std OREAS 520	-	-	5.82	876	3.88	32

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508969	184	8.34	0.99	25	4.36	1847
3508970	2.3	0.15	0.02	2	13.66	135
3508971	142	8.54	0.93	21	4.11	1862
3508972	151	9.49	1.44	23	4.05	2027
3508973	95.6	10.61	1.69	21	3.93	2070
3508974	322	8.05	2.30	25	3.00	1737
3508975	295	8.03	2.28	25	2.98	1721
3508976	348	9.88	1.71	25	4.19	2026
3508977	542	8.24	1.68	21	3.78	1596
3508978	323	8.50	1.56	22	3.81	1595
3508979	363	9.76	1.67	20	3.64	1792
3508980	2764	4.20	2.39	37	1.46	510

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(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3508981	168	7.75	1.03	19	4.05	1611
3508982	215	8.13	1.71	20	3.41	1587
3508983	273	7.80	1.80	24	3.20	1418
3508984	79.4	7.63	1.23	19	3.56	1765
3508985	24.4	2.46	4.47	4	0.42	612
3508986	261	8.18	1.67	21	3.28	1714
3508987	300	8.68	1.39	18	3.77	1640
3508988	225	8.14	1.55	22	3.32	1320
3508989	253	8.50	0.91	20	3.44	1387
3508990	1.2	0.15	0.03	2	13.55	135
3508991	252	8.07	1.07	22	3.28	1390
3508992	270	8.62	1.39	21	3.38	1463
3508993	340	8.49	1.49	22	3.83	1510
3508994	355	8.54	1.37	19	4.09	1601
3508995	134	9.24	0.86	22	4.43	1895
3508996	270	8.62	1.40	19	3.73	1818
3508997	166	8.20	1.56	19	3.57	1607
3508998	56.7	6.55	1.51	18	2.61	1215
3508999	292	7.05	1.76	23	2.72	1357
3509000	2779	4.21	2.31	38	1.47	518
3509001	146	7.64	1.77	19	2.91	1599
3509002	120	6.92	2.35	22	2.39	1411
3509003	154	6.78	2.36	25	2.31	1557
3509004	144	8.76	1.72	19	3.45	1969
3509005	113	5.80	3.59	23	1.88	1218
3509006	146	9.69	2.09	20	3.58	1581
3509007	76.9	9.67	1.34	17	3.72	1607
3509008	175	8.69	2.02	23	3.50	1809
3509009	744	10.68	1.48	24	3.80	1811

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Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3509010	2.1	0.17	0.03	2	13.85	142
3509011	498	11.06	1.05	23	4.47	2281
3509012	758	10.88	0.96	22	4.44	2213
3509013	304	10.18	1.39	24	3.91	1844
3509014	395	9.09	4.25	32	3.53	2448
3509015	395	8.94	4.10	31	3.53	2437
3509016	301	11.22	0.77	18	3.79	2405
3509017	101	11.67	0.94	16	4.38	2102
3509018	390	11.03	0.94	15	4.95	2135
3509019	634	10.09	1.15	17	5.34	1879
3509020	2732	4.38	2.89	37	1.49	521
3509021	499	8.92	1.57	29	3.83	1779
3509022	527	8.75	1.38	24	4.36	1733
3509023	542	9.41	1.58	25	3.90	1807
3509024	471	8.42	1.44	20	3.75	1763
3509025	243	9.31	1.13	22	3.92	1544
3509026	248	8.85	1.06	17	5.56	1766
3509027	246	9.22	1.23	19	5.29	1795
3509028	606	10.19	1.27	19	4.99	1827
3509029	574	9.12	1.05	17	5.87	1720
3509030	1.1	0.15	0.03	3	13.69	133
3509031	477	9.18	1.27	17	4.92	1672
3509032	202	9.02	1.03	17	3.28	1340
3509033	101	8.09	2.76	19	2.92	1311
3509034	159	6.40	3.41	16	2.16	1030
3509035	101	8.77	1.93	21	3.34	1641
3509036	188	7.87	2.22	19	3.51	1688
3509037	139	8.01	1.93	14	3.54	1608
3509038	116	7.78	2.40	19	3.66	1639

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ANALYSIS REPORT BBM20-05307

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3509039	103	8.72	1.60	15	3.76	1624
3509040	5134	4.83	3.03	32	1.37	501
3509041	202	8.99	1.68	16	3.58	1553
3509042	110	8.35	1.87	19	3.63	1568
3509043	177	9.20	1.58	16	3.90	1740
3509044	188	8.49	1.79	14	3.51	1432
*Std OREAS 520	3013	14.80	3.70	19	1.14	2258
*Rep 3508981	167	7.86	1.04	19	4.11	1619
*Std OREAS 601	997	2.37	2.17	22	0.36	450
*Blk BLANK	1.1	0.01	<0.01	<1	<0.01	3
*Std OREAS 520	2930	>15.00	3.62	18	1.16	2316
*Blk BLANK	0.8	0.01	<0.01	<1	<0.01	3
*Std OREAS 601	990	2.53	2.12	21	0.38	479
*Blk BLANK	<0.5	0.01	<0.01	<1	<0.01	3
*Std OREAS 601	972	2.47	2.13	22	0.37	455
*Rep 3509033	102	8.14	2.89	19	2.94	1323
*Std OREAS 520	2868	>15.00	3.66	19	1.13	2227

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508969	1.30	39	0.18	0.39	1171	0.46
3508970	0.01	<1	<0.01	<0.01	44.6	<0.01
3508971	1.32	35	0.17	0.47	1060	0.45
3508972	1.36	28	0.17	0.41	780	0.61
3508973	1.78	23	0.18	0.36	608	0.78

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Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3508974	2.12	18	0.17	1.93	667	0.65
3508975	2.08	17	0.17	1.87	644	0.65
3508976	1.51	29	0.17	0.91	532	0.64
3508977	1.62	30	0.16	1.21	815	0.52
3508978	1.69	33	0.16	0.81	749	0.49
3508979	1.76	27	0.17	0.56	689	0.66
3508980	2.11	56	0.10	0.35	325	0.47
3508981	1.91	27	0.15	1.13	955	0.50
3508982	2.03	22	0.18	1.18	771	0.54
3508983	1.62	25	0.15	1.63	874	0.49
3508984	1.53	24	0.17	1.17	1124	0.47
3508985	2.84	2	0.04	1.09	299	0.19
3508986	1.69	28	0.17	1.61	1034	0.48
3508987	1.72	30	0.17	1.70	887	0.45
3508988	2.15	24	0.17	1.43	991	0.51
3508989	1.95	26	0.20	2.01	1187	0.45
3508990	0.01	<1	<0.01	0.01	47.5	<0.01
3508991	1.92	25	0.20	2.01	1214	0.49
3508992	1.74	25	0.24	1.56	1157	0.54
3508993	1.59	30	0.22	1.42	1067	0.57
3508994	1.42	31	0.20	0.45	803	0.62
3508995	1.50	27	0.19	0.67	1005	0.78
3508996	1.45	25	0.22	1.12	831	0.68
3508997	1.65	23	0.18	0.54	856	0.61
3508998	1.87	17	0.15	0.25	1290	0.48
3508999	1.69	20	0.17	0.76	924	0.47
3509000	2.13	56	0.10	0.35	328	0.47
3509001	1.52	20	0.25	2.15	917	0.53
3509002	1.74	17	0.15	2.81	936	0.40

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3509003	1.67	16	0.16	2.18	529	0.40
3509004	1.44	22	0.21	1.31	705	0.53
3509005	1.37	8	0.31	1.37	469	0.40
3509006	1.34	23	0.18	0.45	781	0.60
3509007	1.58	24	0.14	0.27	904	0.63
3509008	1.56	19	0.18	0.93	690	0.51
3509009	1.32	35	0.20	0.74	677	0.67
3509010	0.01	<1	<0.01	<0.01	46.7	<0.01
3509011	1.14	37	0.16	0.89	747	0.70
3509012	1.03	39	0.17	1.28	816	0.67
3509013	1.47	25	0.19	0.53	697	0.65
3509014	1.39	19	0.20	4.26	414	0.54
3509015	1.40	19	0.20	4.18	406	0.54
3509016	1.29	27	0.11	3.06	949	0.76
3509017	1.54	28	0.17	0.48	562	0.76
3509018	1.19	41	0.11	1.07	554	0.67
3509019	0.99	66	0.14	0.86	513	0.55
3509020	2.09	56	0.10	0.36	324	0.46
3509021	0.77	29	0.17	1.19	668	0.42
3509022	1.01	58	0.13	0.87	643	0.43
3509023	0.75	35	0.15	1.00	573	0.47
3509024	1.09	37	0.17	0.52	669	0.43
3509025	1.50	49	0.18	1.39	835	0.55
3509026	1.05	72	0.14	0.62	586	0.46
3509027	1.13	59	0.16	0.72	639	0.52
3509028	1.16	52	0.17	1.34	671	0.52
3509029	1.06	81	0.13	0.59	670	0.44
3509030	0.01	<1	<0.01	<0.01	45.0	<0.01
3509031	1.18	48	0.14	0.49	658	0.49

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3509032	1.79	22	0.16	0.58	1077	0.55
3509033	1.68	16	0.19	1.14	823	0.51
3509034	2.53	12	0.14	2.93	650	0.41
3509035	1.71	20	0.14	1.81	803	0.54
3509036	1.92	22	0.17	0.69	646	0.53
3509037	2.13	20	0.18	0.56	683	0.53
3509038	1.93	22	0.18	0.49	632	0.50
3509039	1.87	23	0.16	0.48	752	0.55
3509040	2.09	33	0.11	0.81	358	0.47
3509041	1.87	23	0.15	1.20	744	0.58
3509042	1.76	21	0.17	0.41	717	0.56
3509043	1.87	22	0.17	0.46	752	0.63
3509044	2.22	19	0.16	1.40	744	0.56
*Std OREAS 520	1.45	74	0.07	0.95	105	0.39
*Rep 3508981	1.91	27	0.15	1.16	944	0.51
*Std OREAS 601	1.46	25	0.05	1.09	229	0.17
*Blk BLANK	<0.01	<1	<0.01	<0.01	<0.5	<0.01
*Std OREAS 520	1.39	72	0.07	0.96	99.7	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	1.0	<0.01
*Std OREAS 601	1.41	23	0.04	1.08	214	0.18
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Std OREAS 601	1.43	22	0.05	1.07	226	0.17
*Rep 3509033	1.70	16	0.19	1.15	815	0.51
*Std OREAS 520	1.41	75	0.07	0.95	104	0.40

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508969	360	125	17.4	0.25	5	0.5
3508970	<2	4	<0.5	0.08	<1	<0.1
3508971	337	115	17.9	0.20	3	0.7
3508972	411	127	21.2	0.22	3	0.8
3508973	467	130	21.3	0.20	5	0.7
3508974	353	151	20.5	0.30	4	0.7
3508975	360	144	18.2	0.33	6	0.7
3508976	430	142	22.5	0.43	4	0.8
3508977	330	91	20.9	0.57	4	0.7
3508978	350	87	18.8	0.33	6	0.5
3508979	435	100	19.1	0.42	8	0.7
3508980	119	75	74.0	0.39	20	3.1
3508981	375	83	15.1	0.22	5	0.5
3508982	347	88	15.8	0.25	4	0.7
3508983	362	95	9.5	0.40	4	0.7
3508984	362	105	12.8	0.17	6	0.7
3508985	37	45	58.8	0.02	<1	1.0
3508986	361	102	14.2	0.29	5	1.2
3508987	333	84	17.3	0.36	5	0.6
3508988	337	81	11.9	0.37	4	0.6
3508989	329	70	9.3	0.32	8	0.5
3508990	2	4	<0.5	0.06	<1	<0.1
3508991	328	75	12.6	0.29	3	0.5
3508992	330	91	14.3	0.28	4	0.7
3508993	397	91	14.5	0.30	6	1.2
3508994	339	85	18.7	0.40	2	0.5
3508995	390	103	19.0	0.13	3	0.6
3508996	375	93	18.1	0.30	6	1.0
3508997	329	90	16.0	0.18	2	0.6

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508998	263	73	13.9	0.10	2	0.5
3508999	270	91	13.8	0.35	<1	0.9
3509000	119	76	75.1	0.36	18	3.1
3509001	304	148	14.4	0.21	<1	0.6
3509002	240	169	10.6	0.29	<1	0.7
3509003	273	167	10.6	0.29	<1	0.9
3509004	317	146	15.7	0.19	5	0.6
3509005	211	93	21.5	0.20	<1	1.6
3509006	442	113	16.8	0.20	6	0.6
3509007	455	99	18.2	0.10	4	0.5
3509008	401	148	23.2	0.20	5	1.0
3509009	484	154	16.7	0.64	4	1.0
3509010	3	4	<0.5	0.08	<1	<0.1
3509011	457	196	19.2	0.46	4	0.6
3509012	458	150	19.5	0.76	3	0.9
3509013	451	134	17.1	0.32	3	0.5
3509014	416	962	16.0	0.43	8	2.7
3509015	420	1022	22.9	0.46	7	2.7
3509016	550	171	23.9	0.34	5	0.5
3509017	544	101	22.2	0.12	4	0.5
3509018	488	98	19.9	0.34	4	1.2
3509019	421	107	22.6	0.54	4	0.4
3509020	122	80	74.9	0.43	22	2.8
3509021	388	102	12.7	0.91	4	0.8
3509022	350	115	15.1	0.81	3	0.6
3509023	371	118	16.0	0.96	4	0.7
3509024	349	109	14.4	0.61	4	0.5
3509025	394	102	15.2	0.23	4	0.9
3509026	352	109	19.0	0.19	3	0.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509027	385	105	21.4	0.19	2	0.7
3509028	393	112	20.9	0.42	3	0.8
3509029	319	100	18.9	0.35	3	0.3
3509030	<2	4	<0.5	0.05	<1	<0.1
3509031	358	103	21.1	0.29	3	0.5
3509032	385	85	18.9	0.24	4	0.7
3509033	385	88	20.6	0.17	4	1.0
3509034	243	63	22.2	0.21	4	1.1
3509035	406	92	15.4	0.20	6	0.7
3509036	354	106	24.1	0.19	5	1.3
3509037	358	93	19.1	0.15	3	0.9
3509038	338	93	19.0	0.08	3	0.7
3509039	383	91	20.4	0.09	3	0.6
3509040	117	73	80.4	1.19	83	2.6
3509041	408	98	23.2	0.17	4	0.9
3509042	370	111	23.6	0.12	5	0.7
3509043	396	98	23.5	0.17	1	0.7
3509044	361	71	28.1	0.22	1	0.8
*Std OREAS 520	251	21	131	0.39	150	1.1
*Rep 3508981	381	82	14.1	0.22	5	0.5
*Std OREAS 601	26	1239	155	50.22	325	2.1
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Std OREAS 520	253	21	125	0.37	141	1.1
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Std OREAS 601	27	1250	148	49.45	300	2.4
*Blk BLANK	<2	1	<0.5	0.03	<1	<0.1
*Std OREAS 601	28	1308	152	50.15	300	1.9
*Rep 3509033	387	88	26.5	0.15	3	0.9
*Std OREAS 520	252	22	128	0.38	148	1.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508969	0.07	0.28	15.07	39.7	<1	17.5
3508970	<0.04	0.03	0.86	1.8	<1	0.8
3508971	0.06	0.44	13.68	41.3	<1	16.5
3508972	0.06	0.25	14.59	43.7	<1	19.0
3508973	0.05	0.21	17.66	41.2	<1	18.5
3508974	0.18	0.20	18.00	35.5	2	18.8
3508975	0.17	0.22	18.39	35.6	1	20.0
3508976	0.11	0.38	15.25	41.8	1	17.6
3508977	0.08	0.26	15.95	51.8	<1	18.0
3508978	0.05	0.19	14.12	42.3	<1	17.5
3508979	0.08	0.24	16.25	42.5	<1	18.5
3508980	0.66	0.38	69.88	16.7	13	17.6
3508981	0.08	0.12	14.28	37.6	<1	17.4
3508982	0.10	0.15	17.05	32.2	<1	17.9
3508983	0.15	0.25	14.42	41.2	1	18.6
3508984	0.18	0.18	14.52	29.5	<1	17.7
3508985	0.17	0.42	28.25	4.5	<1	14.9
3508986	0.11	0.21	15.71	39.5	<1	18.6
3508987	0.05	0.17	16.02	45.9	<1	16.3
3508988	<0.04	0.11	19.77	36.3	<1	18.2
3508989	0.05	0.14	19.06	44.1	<1	17.2
3508990	<0.04	0.03	0.97	2.2	<1	1.8
3508991	0.07	0.12	18.93	38.6	<1	17.7
3508992	0.07	0.13	18.40	40.2	<1	17.8
3508993	0.08	0.14	17.94	39.1	1	18.3
3508994	0.04	0.15	15.90	48.1	<1	17.6
3508995	0.08	0.10	15.61	48.9	<1	18.7
3508996	0.12	0.15	16.39	43.9	<1	19.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508997	0.04	0.12	15.39	41.1	<1	18.8
3508998	<0.04	0.08	14.10	31.2	<1	20.3
3508999	0.05	0.17	13.89	34.7	<1	19.4
3509000	0.66	0.42	74.67	17.3	13	18.2
3509001	0.13	0.83	17.85	37.1	<1	20.1
3509002	0.12	0.67	13.18	35.5	1	19.4
3509003	0.12	1.11	14.55	31.6	2	17.9
3509004	0.10	0.18	16.67	40.4	<1	19.2
3509005	0.12	0.12	25.53	34.1	3	17.5
3509006	0.05	0.12	13.84	39.2	2	19.3
3509007	<0.04	0.10	13.48	41.9	<1	19.4
3509008	0.07	0.17	14.32	35.1	1	19.2
3509009	<0.04	0.51	14.17	50.8	<1	18.9
3509010	<0.04	0.04	0.89	0.9	<1	0.1
3509011	0.05	0.65	12.61	47.7	<1	17.6
3509012	0.09	0.54	13.17	49.9	<1	17.5
3509013	<0.04	0.30	13.40	38.8	<1	18.3
3509014	0.31	8.82	14.28	36.0	6	15.7
3509015	0.32	9.91	13.85	36.5	6	16.1
3509016	0.17	0.33	11.50	48.1	<1	19.1
3509017	<0.04	0.11	15.59	42.7	<1	18.2
3509018	0.06	0.20	11.94	46.2	<1	17.2
3509019	0.06	0.34	12.11	54.8	1	15.7
3509020	0.62	0.19	73.38	14.7	12	16.8
3509021	0.13	0.54	11.34	41.7	2	15.7
3509022	0.14	0.42	9.98	40.5	1	16.1
3509023	0.22	0.60	10.50	36.8	2	15.8
3509024	0.05	0.44	11.33	39.0	<1	16.0
3509025	0.07	0.13	13.45	44.6	<1	18.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509026	<0.04	0.21	11.62	52.0	<1	15.3
3509027	0.05	0.18	12.45	43.5	<1	16.2
3509028	0.06	0.26	11.85	55.5	<1	16.3
3509029	<0.04	0.25	10.98	54.0	<1	14.9
3509030	<0.04	0.03	0.91	0.8	<1	0.1
3509031	<0.04	0.21	11.41	45.3	<1	16.2
3509032	<0.04	0.11	14.71	37.5	<1	18.4
3509033	0.08	0.07	17.33	31.5	1	18.6
3509034	0.18	0.09	19.57	29.9	2	16.9
3509035	0.15	0.09	13.12	36.2	2	18.9
3509036	0.07	0.14	17.40	33.0	1	17.5
3509037	<0.04	0.12	17.85	35.3	<1	17.4
3509038	<0.04	0.13	17.69	33.7	1	17.2
3509039	<0.04	0.13	16.24	37.7	<1	17.9
3509040	1.32	0.40	70.05	16.5	11	16.9
3509041	0.08	0.14	16.36	40.8	<1	17.8
3509042	<0.04	0.11	17.03	34.4	<1	18.0
3509043	<0.04	0.13	17.72	46.2	<1	19.1
3509044	<0.04	0.10	19.18	40.7	<1	18.9
*Std OREAS 520	2.79	0.15	80.53	190	<1	17.8
*Rep 3508981	0.09	0.12	14.53	38.1	<1	17.3
*Std OREAS 601	19.37	8.16	67.36	5.8	8	19.4
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 520	2.79	0.18	80.81	189	<1	18.1
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.63	7.44	67.35	5.9	7	22.1
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	18.85	7.26	63.38	5.3	6	19.7
*Rep 3509033	0.08	0.07	16.93	31.7	1	18.2

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (153-228)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05307

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 520	3.00	0.05	89.69	201	<1	16.9

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508969	0.81	0.07	6.4	0.19	2.67	1.8
3508970	<0.02	<0.02	0.5	<0.01	0.07	<0.1
3508971	0.86	0.07	5.8	0.21	4.08	1.9
3508972	0.93	0.07	6.3	0.21	2.02	3.1
3508973	0.91	0.07	7.7	0.25	2.57	4.1
3508974	0.75	0.05	8.0	0.21	10.11	4.2
3508975	0.74	0.06	8.3	0.22	6.08	4.5
3508976	0.90	0.06	6.5	0.23	2.27	3.0
3508977	0.90	0.06	7.1	0.22	2.50	3.5
3508978	0.82	0.06	6.3	0.20	2.42	2.5
3508979	0.81	0.06	7.2	0.23	3.20	4.0
3508980	2.26	0.07	34.8	0.32	100	18.7
3508981	0.67	0.07	6.3	0.20	4.27	1.8
3508982	0.68	0.05	7.9	0.19	2.67	2.8
3508983	0.43	0.05	6.7	0.15	2.03	1.5
3508984	0.65	0.06	6.2	0.19	2.04	1.9
3508985	1.40	0.02	14.0	0.20	14.89	11.1
3508986	0.67	0.06	7.2	0.19	3.76	2.1
3508987	0.78	0.07	7.0	0.23	2.38	2.5
3508988	0.53	0.05	9.0	0.19	3.01	2.3
3508989	0.47	0.06	8.9	0.18	7.41	1.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508990	<0.02	<0.02	0.5	0.02	<0.05	<0.1
3508991	0.57	0.06	8.7	0.20	2.81	2.1
3508992	0.58	0.06	8.3	0.20	2.61	2.5
3508993	0.70	0.06	7.8	0.21	4.61	2.0
3508994	0.80	0.06	6.9	0.22	2.00	2.5
3508995	0.84	0.06	6.7	0.22	2.38	2.4
3508996	0.76	0.05	7.2	0.21	2.63	2.3
3508997	0.72	0.05	6.9	0.20	1.76	2.5
3508998	0.56	0.04	6.5	0.16	1.92	2.5
3508999	0.61	0.04	6.3	0.17	2.37	2.3
3509000	2.41	0.07	36.7	0.34	99.95	18.8
3509001	0.63	0.05	8.0	0.20	2.18	2.9
3509002	0.50	0.04	6.1	0.15	3.16	2.1
3509003	0.46	0.05	6.7	0.16	1.34	2.3
3509004	0.74	0.06	7.6	0.19	2.31	2.2
3509005	0.84	0.04	11.5	0.22	2.27	4.9
3509006	0.69	0.06	6.7	0.18	2.11	3.0
3509007	0.77	0.06	6.3	0.20	1.99	3.4
3509008	0.75	0.05	6.9	0.19	1.89	3.4
3509009	0.75	0.07	6.4	0.22	2.00	2.5
3509010	<0.02	<0.02	0.5	<0.01	<0.05	<0.1
3509011	0.84	0.07	5.3	0.23	1.61	2.1
3509012	0.89	0.09	5.6	0.23	3.27	1.9
3509013	0.83	0.07	5.8	0.23	2.66	1.5
3509014	0.68	0.05	6.2	0.19	6.56	2.8
3509015	0.69	0.05	5.9	0.20	8.91	2.8
3509016	0.87	0.08	5.2	0.21	3.87	2.9
3509017	0.96	0.07	7.0	0.25	2.40	3.1
3509018	0.89	0.07	5.1	0.23	3.21	2.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509019	0.96	0.07	5.1	0.23	2.35	1.8
3509020	2.38	0.07	34.2	0.35	98.20	19.0
3509021	0.56	0.06	4.7	0.19	2.30	1.1
3509022	0.61	0.06	4.3	0.17	3.68	1.5
3509023	0.64	0.06	4.6	0.17	1.95	1.5
3509024	0.59	0.05	5.0	0.16	0.89	1.6
3509025	0.63	0.04	6.0	0.18	1.98	2.7
3509026	0.78	0.05	4.9	0.20	1.11	1.8
3509027	0.86	0.06	5.2	0.21	1.49	1.9
3509028	0.81	0.06	5.0	0.19	0.99	1.7
3509029	0.76	0.06	4.5	0.20	0.98	1.7
3509030	<0.02	<0.02	0.5	<0.01	0.06	<0.1
3509031	0.83	0.06	4.8	0.20	0.99	1.9
3509032	0.75	0.05	6.7	0.19	1.11	3.3
3509033	0.72	0.05	8.2	0.18	4.51	4.2
3509034	0.73	0.03	9.2	0.20	3.13	6.8
3509035	0.62	0.06	6.1	0.17	1.91	2.7
3509036	0.87	0.06	7.9	0.22	6.86	3.9
3509037	0.79	0.05	8.0	0.21	2.51	3.9
3509038	0.76	0.05	8.1	0.20	2.12	3.9
3509039	0.82	0.06	7.4	0.21	1.95	3.6
3509040	2.49	0.09	32.0	0.34	344	21.1
3509041	0.91	0.06	7.3	0.21	2.09	3.7
3509042	0.90	0.06	7.7	0.21	1.14	3.7
3509043	1.02	0.06	7.6	0.25	1.78	4.3
3509044	0.93	0.05	8.5	0.24	2.65	4.8
*Std OREAS 520	3.61	0.10	77.5	0.33	64.48	4.9
*Rep 3508981	0.69	0.07	6.4	0.21	3.81	1.8
*Std OREAS 601	4.19	1.77	31.5	0.13	3.83	12.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (153-228)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05307

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.02	<0.02	<0.1	0.01	<0.05	<0.1
*Std OREAS 520	3.70	0.11	80.8	0.36	65.25	5.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.52	1.66	30.3	0.12	4.00	13.9
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.29	1.63	29.9	0.09	3.76	13.0
*Rep 3509033	0.78	0.05	8.0	0.19	4.52	4.2
*Std OREAS 520	3.47	0.11	86.2	0.33	61.41	5.1

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508969	6.5	27.2	44.4	<2	1.37	0.7
3508970	1.5	0.9	<0.5	<2	0.07	<0.3
3508971	6.1	24.7	43.9	<2	1.32	0.8
3508972	6.0	36.6	41.6	<2	1.18	0.8
3508973	4.5	40.3	38.8	<2	1.17	0.9
3508974	6.6	62.7	26.8	4	1.12	0.8
3508975	6.4	63.2	28.6	4	1.13	0.8
3508976	7.1	48.6	41.5	3	1.24	0.8
3508977	6.2	45.6	37.4	4	1.40	0.8
3508978	4.6	42.9	37.5	2	1.11	0.7
3508979	4.9	43.0	31.5	2	1.14	0.8
3508980	21.4	148	13.5	2	2.20	3.3
3508981	5.7	29.6	40.9	3	1.79	0.7
3508982	6.4	46.5	33.7	4	1.86	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508983	17.2	58.8	30.6	4	1.95	0.6
3508984	8.4	36.5	37.9	<2	2.27	0.6
3508985	9.3	90.1	1.7	<2	0.55	0.9
3508986	5.4	45.3	34.5	3	1.62	1.0
3508987	4.6	34.4	40.1	3	1.35	0.8
3508988	4.4	35.3	29.7	4	1.37	0.8
3508989	5.0	23.7	33.9	4	1.46	0.7
3508990	2.0	1.2	<0.5	<2	0.07	<0.3
3508991	4.8	27.0	30.7	4	1.49	0.7
3508992	4.6	33.3	29.3	3	1.04	0.7
3508993	6.4	39.9	35.6	3	0.98	0.7
3508994	3.9	38.3	33.1	<2	0.82	0.7
3508995	3.9	23.0	38.8	<2	1.01	0.8
3508996	3.6	39.8	30.3	2	0.85	0.7
3508997	3.0	44.7	28.6	<2	0.76	0.7
3508998	4.0	44.7	20.9	<2	1.05	0.6
3508999	4.1	59.7	21.0	<2	0.85	0.5
3509000	22.0	143	13.6	3	2.10	3.3
3509001	4.6	55.3	24.1	3	0.91	0.6
3509002	6.5	82.8	18.6	3	1.18	0.5
3509003	9.6	87.3	20.5	2	1.57	0.6
3509004	4.8	55.6	28.9	<2	1.89	0.6
3509005	8.9	83.9	11.9	<2	1.75	0.8
3509006	5.1	58.9	26.4	<2	1.53	0.7
3509007	3.9	35.4	32.2	<2	1.41	0.8
3509008	4.4	49.5	26.7	<2	1.73	0.7
3509009	3.5	39.3	36.5	<2	1.11	0.7
3509010	1.6	1.2	<0.5	<2	0.09	<0.3
3509011	3.5	27.2	42.7	<2	2.07	0.8

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509012	3.9	24.8	43.3	<2	1.28	0.8
3509013	2.8	39.5	40.8	<2	0.70	0.7
3509014	5.9	137	28.8	3	0.70	0.8
3509015	5.9	139	30.0	3	0.72	0.7
3509016	4.5	21.2	36.9	2	1.50	0.9
3509017	2.7	23.2	40.2	<2	1.03	0.8
3509018	4.8	25.2	42.5	<2	1.13	0.8
3509019	7.2	35.3	40.8	<2	0.85	0.6
3509020	19.6	193	13.6	<2	2.15	3.3
3509021	41.9	54.8	36.6	<2	1.71	0.5
3509022	30.9	46.1	34.6	<2	1.33	0.5
3509023	77.1	52.5	35.4	<2	1.75	0.6
3509024	10.4	44.0	28.9	<2	1.64	0.5
3509025	6.7	32.4	30.3	<2	1.09	0.6
3509026	4.4	30.7	40.1	<2	0.82	0.6
3509027	2.3	36.7	39.5	<2	0.60	0.6
3509028	2.4	37.9	36.3	<2	0.68	0.6
3509029	2.4	29.3	41.4	<2	0.60	0.5
3509030	1.6	1.4	<0.5	<2	0.09	<0.3
3509031	2.7	35.4	39.0	<2	0.68	0.6
3509032	8.6	25.5	29.7	<2	0.95	0.8
3509033	4.2	67.2	22.1	<2	0.98	0.8
3509034	7.4	74.7	18.9	<2	0.98	0.8
3509035	5.2	56.7	27.5	<2	1.45	0.8
3509036	9.6	55.4	28.3	<2	1.51	0.7
3509037	3.7	45.7	29.5	<2	2.01	0.7
3509038	3.4	59.3	29.2	<2	0.86	0.6
3509039	2.7	42.1	30.9	<2	1.14	0.7
3509040	19.4	185	12.0	3	3.39	3.5

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509041	5.1	41.7	31.2	<2	2.52	0.7
3509042	5.5	48.3	29.7	<2	1.04	0.7
3509043	3.6	42.7	33.8	<2	0.95	0.7
3509044	3.1	53.1	30.5	<2	0.78	0.8
*Std OREAS 520	6.8	103	16.3	<2	3.11	4.4
*Rep 3508981	5.7	29.2	42.6	3	1.79	0.7
*Std OREAS 601	310	90.5	4.9	10	30.66	4.0
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	6.4	108	16.3	<2	2.99	4.4
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	318	99.8	5.1	12	31.23	4.2
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	318	97.3	4.9	10	29.58	4.0
*Rep 3509033	4.2	66.1	21.4	<2	0.96	0.7
*Std OREAS 520	5.6	115	16.5	<2	3.16	4.6

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508969	0.14	0.53	<0.05	0.5	0.13	0.27
3508970	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
3508971	0.16	0.52	<0.05	0.6	0.11	0.29
3508972	0.22	0.54	<0.05	0.8	0.17	0.49
3508973	0.24	0.60	<0.05	1.0	0.18	0.56
3508974	0.26	0.53	0.14	1.0	0.29	0.53
3508975	0.26	0.55	0.15	1.1	0.29	0.52

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3508976	0.16	0.59	0.08	0.7	0.21	0.48
3508977	0.21	0.53	0.12	0.9	0.22	0.45
3508978	0.15	0.51	0.08	0.7	0.19	0.36
3508979	0.24	0.54	0.06	1.0	0.20	0.52
3508980	1.26	0.75	0.24	17.6	0.92	4.64
3508981	0.11	0.52	0.15	0.5	0.13	0.28
3508982	0.16	0.52	0.15	0.7	0.21	0.38
3508983	0.08	0.42	0.18	0.4	0.26	0.20
3508984	0.12	0.51	0.10	0.5	0.16	0.29
3508985	0.77	0.39	0.06	3.2	0.61	1.75
3508986	0.13	0.49	0.15	0.5	0.22	0.41
3508987	0.15	0.57	0.19	0.7	0.15	0.39
3508988	0.13	0.53	0.16	0.6	0.17	0.29
3508989	0.09	0.52	0.19	0.4	0.11	0.20
3508990	<0.05	<0.05	<0.05	<0.2	<0.02	0.05
3508991	0.12	0.53	0.20	0.5	0.13	0.26
3508992	0.15	0.52	0.13	0.5	0.15	0.31
3508993	0.11	0.55	0.11	0.4	0.19	0.28
3508994	0.15	0.53	0.06	0.6	0.16	0.29
3508995	0.14	0.56	0.06	0.6	0.10	0.30
3508996	0.14	0.54	0.10	0.6	0.17	0.43
3508997	0.15	0.49	<0.05	0.6	0.18	0.31
3508998	0.14	0.40	<0.05	0.6	0.18	0.29
3508999	0.14	0.41	0.06	0.6	0.28	0.32
3509000	1.37	0.80	0.24	19.2	0.95	5.02
3509001	0.16	0.51	0.22	0.7	0.22	0.35
3509002	0.13	0.37	0.21	0.6	0.33	0.31
3509003	0.14	0.42	0.24	0.7	0.39	0.36
3509004	0.14	0.52	0.08	0.7	0.21	0.31

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509005	0.30	0.54	0.10	1.9	0.48	1.09
3509006	0.18	0.44	0.08	0.7	0.30	0.33
3509007	0.22	0.46	0.05	0.7	0.14	0.33
3509008	0.19	0.44	0.08	0.9	0.23	0.54
3509009	0.15	0.52	0.08	0.5	0.17	0.34
3509010	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
3509011	0.12	0.52	0.09	0.5	0.12	0.28
3509012	0.11	0.55	0.11	0.5	0.11	0.40
3509013	0.10	0.55	0.06	0.4	0.16	0.20
3509014	0.16	0.49	0.29	0.9	0.74	0.91
3509015	0.16	0.49	0.31	0.9	0.74	0.94
3509016	0.17	0.49	0.21	0.7	0.09	0.48
3509017	0.18	0.58	<0.05	0.8	0.10	0.45
3509018	0.14	0.52	0.10	0.7	0.12	0.42
3509019	0.11	0.52	0.08	0.5	0.18	0.28
3509020	1.29	0.78	0.23	18.6	0.93	4.97
3509021	0.07	0.46	0.09	0.4	0.29	0.19
3509022	0.09	0.40	0.09	0.5	0.23	0.22
3509023	0.09	0.41	0.09	0.5	0.27	0.25
3509024	0.10	0.40	0.08	0.5	0.20	0.24
3509025	0.15	0.43	0.09	0.6	0.14	0.35
3509026	0.11	0.45	0.06	0.5	0.14	0.27
3509027	0.11	0.48	0.09	0.5	0.17	0.35
3509028	0.10	0.46	0.13	0.5	0.19	0.31
3509029	0.10	0.45	0.07	0.5	0.14	0.26
3509030	<0.05	<0.05	<0.05	<0.2	<0.02	0.05
3509031	0.10	0.48	<0.05	0.5	0.17	0.25
3509032	0.19	0.45	0.06	1.2	0.10	0.62
3509033	0.23	0.45	0.10	1.2	0.28	0.68

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (153-228)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05307

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509034	0.36	0.48	0.23	1.7	0.33	0.78
3509035	0.15	0.40	0.19	0.7	0.25	0.36
3509036	0.22	0.50	0.06	1.4	0.26	0.80
3509037	0.22	0.51	0.08	1.5	0.18	0.78
3509038	0.23	0.48	<0.05	1.5	0.24	0.75
3509039	0.21	0.49	<0.05	1.1	0.16	0.59
3509040	1.42	0.76	0.33	15.0	0.90	4.57
3509041	0.20	0.49	0.12	1.0	0.17	0.60
3509042	0.19	0.51	0.07	1.0	0.19	0.50
3509043	0.28	0.57	0.09	1.1	0.15	0.54
3509044	0.27	0.55	0.16	1.3	0.24	0.58
*Std OREAS 520	0.36	0.65	0.35	9.5	0.25	17.33
*Rep 3508981	0.12	0.53	0.15	0.5	0.13	0.28
*Std OREAS 601	0.93	0.52	15.06	10.6	1.18	3.75
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.35	0.68	0.39	9.9	0.24	17.29
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.88	0.55	15.47	10.8	1.17	3.94
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.96	0.52	14.52	10.2	1.15	3.57
*Rep 3509033	0.23	0.42	0.10	1.2	0.28	0.67
*Std OREAS 520	0.37	0.61	0.36	9.5	0.25	16.40

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508969	0.9	16.5	1.5
3508970	0.1	0.3	<0.1
3508971	0.7	16.4	1.5
3508972	0.8	17.0	1.6
3508973	0.9	19.3	1.7
3508974	2.0	16.8	1.5
3508975	1.9	16.9	1.6
3508976	1.4	18.5	1.6
3508977	0.7	17.5	1.6
3508978	0.6	16.0	1.5
3508979	0.9	16.8	1.7
3508980	5.6	25.0	2.3
3508981	1.0	16.0	1.5
3508982	0.9	16.0	1.4
3508983	1.4	12.6	1.1
3508984	1.0	16.2	1.4
3508985	2.2	13.4	1.4
3508986	1.0	14.8	1.4
3508987	0.9	17.9	1.6
3508988	1.2	15.3	1.3
3508989	0.7	15.5	1.3
3508990	<0.1	0.3	<0.1
3508991	0.6	15.5	1.4
3508992	0.6	16.0	1.4
3508993	0.6	16.5	1.5
3508994	0.6	16.8	1.6
3508995	1.2	18.2	1.6
3508996	1.0	16.9	1.5
3508997	0.7	15.5	1.5
3508998	0.7	12.8	1.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3508999	1.1	12.4	1.2
3509000	4.7	25.4	2.4
3509001	0.9	15.9	1.4
3509002	1.0	11.7	1.1
3509003	0.8	12.8	1.1
3509004	1.2	16.7	1.5
3509005	2.1	17.3	1.5
3509006	1.6	13.3	1.2
3509007	0.8	14.0	1.3
3509008	1.7	13.9	1.3
3509009	0.5	16.0	1.5
3509010	<0.1	0.3	<0.1
3509011	0.7	16.1	1.5
3509012	0.8	16.5	1.6
3509013	0.7	16.6	1.5
3509014	2.3	14.9	1.3
3509015	2.3	15.1	1.4
3509016	1.6	14.9	1.4
3509017	1.1	17.6	1.7
3509018	1.4	16.0	1.5
3509019	1.0	15.6	1.5
3509020	4.4	23.8	2.3
3509021	0.9	13.5	1.3
3509022	1.1	11.9	1.1
3509023	1.0	12.7	1.2
3509024	0.8	12.2	1.1
3509025	1.6	13.2	1.2
3509026	1.2	13.7	1.3
3509027	0.8	14.4	1.4
3509028	0.8	13.8	1.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(153-228)
Number of Samples 76

ANALYSIS REPORT BBM20-05307

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3509029	0.6	13.8	1.3
3509030	<0.1	0.3	<0.1
3509031	0.7	14.6	1.4
3509032	1.1	14.0	1.3
3509033	1.9	13.5	1.2
3509034	2.0	15.0	1.4
3509035	2.5	12.3	1.1
3509036	2.6	15.6	1.4
3509037	1.0	15.2	1.4
3509038	1.3	14.7	1.4
3509039	1.2	15.4	1.4
3509040	3.2	21.7	2.2
3509041	2.3	15.3	1.4
3509042	1.2	15.2	1.4
3509043	1.1	17.3	1.7
3509044	1.2	16.8	1.6
*Std OREAS 520	46.0	20.5	2.2
*Rep 3508981	1.0	16.1	1.5
*Std OREAS 601	5.7	11.5	0.7
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	44.4	20.6	2.2
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.7	11.6	0.6
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.6	10.8	0.6
*Rep 3509033	1.9	13.4	1.3
*Std OREAS 520	42.7	19.5	2.0

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (153-228)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	76

ANALYSIS REPORT BBM20-05307

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Tests and Elements marked with an "@" symbol in the report denote ISO/IEC17025 accreditation.

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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ANALYSIS REPORT BBM20-05308

To THOMPSON CREEK METALS
PAUL JAGO
SUITE 200, 299 VICTORIA ST
PRINCE GEORGE V2L 5B8
BC
CANADA

Order Number	PO: M24987	Date Received	26-Oct-2020
Project	MAX	Date Analysed	29-Oct-2020 - 12-Nov-2020
Submission Number (229-256)	*BBY*MAX20_Core_17/ 256 Cores	Date Completed	12-Nov-2020
		SGS Order Number	BBM20-05308
Number of Samples	28		

Methods Summary

Number of Sample	Method Code	Description
28	G_WGH_KG	Weight of samples received
26	G_PRP	Combined Sample Preparation
28	GE_FAA30V5	Au, FAS, exploration grade, AAS, 30g-5ml
28	GE_DIG40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3) 0.2g-12ml
28	GE_ICP40Q12	4 Acid Digest (HCL/HCLO4/HF/HNO3), ICP, 0.2g-12ml
28	GE_IMS40Q12	4 Acid Digest Package (HCL/HCLO4/HF/HNO3),ICP-MS, 0.2g-12ml

Authorised Signatory

John Chiang
Laboratory Operations Manager

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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
3509045	5.17	6	7.85	702	6.32	62
3509046	4.98	<5	7.51	626	7.20	56
3509047	4.89	5	8.50	1026	4.99	33
3509048	5.27	9	7.45	534	7.74	77
3509049	5.49	17	6.56	527	8.30	75
3509050	1.22	<5	0.09	7	>15.00	2
3509051	4.91	<5	6.74	525	8.41	74
3509052	5.55	<5	7.16	386	9.18	101
3509053	5.06	<5	7.79	425	9.48	38
3509054	5.09	7	7.27	401	8.64	38
3509055	-	8	7.32	413	8.76	38
3509056	4.46	23	7.88	503	8.22	18
3509057	5.69	30	7.62	1457	2.23	12
3509058	4.16	33	7.62	844	5.65	30
3509059	5.05	7	7.15	487	7.80	58
3509060	0.15	233	7.72	1007	2.53	62
3509061	5.80	10	5.88	420	7.77	70
3509062	5.72	15	7.93	661	7.28	47
3509063	5.36	10	7.54	738	7.12	55
3509064	4.89	10	6.95	585	7.96	64
3509065	5.28	17	8.13	734	7.04	60
3509066	5.19	13	7.81	671	6.92	40
3509067	3.27	7	8.30	218	6.53	51
3509068	6.35	7	8.78	1616	4.67	3
3509069	5.54	10	6.00	548	7.77	79
3509070	1.36	5	0.09	8	>15.00	2
3509071	5.63	10	5.60	381	8.60	81
3509072	5.55	12	8.64	414	8.47	53
*Std OREAS 601	-	-	6.26	2618	1.23	32

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	Wtkg	@Au	@Al	@Ba	@Ca	@Cr
Method	G_WGH_KG	GE_FAA30V5	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	5	0.01	1	0.01	1
Upper Limit	--	10,000	15	10,000	15	10,000
Unit	kg	ppb	%	ppm m / m	%	ppm m / m
*Blk BLANK	-	-	0.01	1	0.01	1
*Std OREAS 520	-	-	5.53	1121	3.78	34
*Std OREAS 520	-	-	5.81	994	3.81	32
*Blk BLANK	-	-	<0.01	<1	0.01	1
*Std OREAS 601	-	-	6.48	997	1.21	26
*Rep 3509072	-	-	8.66	420	8.78	45
*Std OXG123	-	1000	-	-	-	-
*Rep 3509072	-	10	-	-	-	-
*Blk BLANK	-	<5	-	-	-	-

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3509045	261	8.90	2.05	19	3.79	1535
3509046	145	9.21	1.45	15	4.12	1843
3509047	247	6.56	2.91	16	2.53	1454
3509048	552	9.37	1.86	23	4.34	1866
3509049	371	10.04	1.63	22	4.66	1943
3509050	1.9	0.17	0.03	2	13.78	144
3509051	370	9.14	2.17	26	4.53	2236
3509052	246	8.17	0.97	23	4.57	2336
3509053	240	7.58	0.98	17	3.56	1752
3509054	461	10.32	1.03	18	3.87	1825
3509055	449	10.19	1.04	19	3.86	1819
3509056	81.1	9.77	2.32	31	3.44	2440
3509057	43.5	3.10	4.62	3	0.74	774

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (229-256)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	28

ANALYSIS REPORT BBM20-05308

Element	@Cu	@Fe	@K	@Li	@Mg	@Mn
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.5	0.01	0.01	1	0.01	2
Upper Limit	10,000	15	15	10,000	15	10,000
Unit	ppm m / m	%	%	ppm m / m	%	ppm m / m
3509058	96.9	8.11	4.60	29	2.63	1608
3509059	141	9.87	1.28	17	4.08	1596
3509060	2765	4.48	2.76	35	1.48	537
3509061	48.0	11.22	0.99	16	4.56	1794
3509062	151	8.82	1.55	16	3.64	1499
3509063	124	9.49	1.90	20	3.70	1555
3509064	230	9.67	1.69	23	4.20	1865
3509065	551	8.59	1.67	20	3.43	1376
3509066	281	8.72	1.41	20	3.99	1493
3509067	353	8.60	2.65	34	3.46	1730
3509068	127	5.88	4.28	24	1.88	1546
3509069	234	11.12	1.43	17	4.27	1829
3509070	1.9	0.18	0.04	2	13.13	139
3509071	110	11.49	1.11	20	4.78	1951
3509072	207	9.06	1.98	31	3.98	1971
*Std OREAS 601	998	2.56	2.15	21	0.37	470
*Blk BLANK	1.2	0.02	<0.01	<1	<0.01	3
*Std OREAS 520	2858	>15.00	3.51	18	1.11	2251
*Std OREAS 520	2930	>15.00	3.62	18	1.16	2316
*Blk BLANK	0.8	0.01	<0.01	<1	<0.01	3
*Std OREAS 601	990	2.53	2.12	21	0.38	479
*Rep 3509072	205	8.95	2.00	31	4.07	2013

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
3509045	1.88	21	0.17	2.07	601	0.60
3509046	1.76	23	0.17	0.46	748	0.63
3509047	2.29	16	0.18	0.88	654	0.54
3509048	1.36	31	0.18	0.52	651	0.60
3509049	1.32	34	0.13	0.39	619	0.67
3509050	0.01	<1	<0.01	<0.01	45.0	<0.01
3509051	1.26	33	0.19	1.61	531	0.62
3509052	1.57	46	0.20	1.81	773	0.44
3509053	1.58	29	0.26	1.14	931	0.49
3509054	1.51	27	0.22	1.16	803	0.71
3509055	1.51	27	0.22	1.21	828	0.70
3509056	1.13	18	0.20	1.10	739	0.68
3509057	2.50	4	0.05	0.91	297	0.25
3509058	1.12	18	0.10	1.90	525	0.53
3509059	1.54	25	0.07	0.48	777	0.68
3509060	2.04	55	0.10	0.35	318	0.49
3509061	1.41	31	0.09	0.25	529	0.76
3509062	1.68	22	0.18	0.44	696	0.60
3509063	1.67	23	0.14	0.52	575	0.62
3509064	1.36	24	0.14	1.24	651	0.61
3509065	1.89	25	0.11	1.17	760	0.57
3509066	1.87	23	0.18	0.89	711	0.57
3509067	1.77	16	0.20	>5.00	530	0.43
3509068	2.06	6	0.31	1.03	770	0.44
3509069	1.49	30	0.13	0.69	591	0.79
3509070	0.01	<1	<0.01	<0.01	45.2	<0.01
3509071	1.19	29	0.06	0.72	462	0.78
3509072	0.79	23	0.05	1.51	785	0.52
*Std OREAS 601	1.43	23	0.05	1.12	224	0.18

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
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(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Na	@Ni	@P	@S	@Sr	@Ti
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12
Lower Limit	0.01	1	0.01	0.01	0.5	0.01
Upper Limit	15	10,000	15	5	10,000	15
Unit	%	ppm m / m	%	%	ppm m / m	%
*Blk BLANK	<0.01	<1	<0.01	<0.01	0.9	<0.01
*Std OREAS 520	1.34	72	0.07	0.97	98.4	0.39
*Std OREAS 520	1.39	72	0.07	0.96	99.7	0.39
*Blk BLANK	<0.01	<1	<0.01	<0.01	1.0	<0.01
*Std OREAS 601	1.41	23	0.04	1.08	214	0.18
*Rep 3509072	0.81	24	0.05	1.55	793	0.52

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509045	389	81	22.7	0.20	3	1.0
3509046	393	87	24.4	0.12	1	0.7
3509047	306	100	45.8	0.23	<1	4.6
3509048	399	122	18.0	0.42	2	0.9
3509049	491	112	20.6	0.27	2	2.0
3509050	3	3	0.7	0.05	<1	<0.1
3509051	417	145	19.7	0.30	5	2.4
3509052	281	142	20.4	0.20	8	0.6
3509053	324	88	21.0	0.21	5	0.6
3509054	472	103	19.4	0.38	10	0.6
3509055	465	104	19.3	0.37	6	0.6
3509056	425	122	17.9	0.24	9	0.8
3509057	109	37	56.2	0.12	7	3.1
3509058	448	138	16.8	0.28	11	2.7
3509059	450	77	21.0	0.16	7	0.7
3509060	117	75	69.4	0.46	24	3.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@V	@Zn	@Zr	@Ag	@As	@Be
Method	GE_ICP40Q12	GE_ICP40Q12	GE_ICP40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	2	1	0.5	0.02	1	0.1
Upper Limit	10,000	10,000	10,000	100	10,000	2,500
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509061	535	86	22.0	0.04	4	0.6
3509062	409	77	16.0	0.14	5	0.8
3509063	410	78	18.6	0.09	5	0.7
3509064	451	97	19.3	0.16	4	1.6
3509065	372	79	16.7	0.56	4	0.7
3509066	356	84	17.7	0.22	4	0.6
3509067	349	219	15.3	0.50	7	0.9
3509068	214	89	25.7	0.15	5	1.6
3509069	530	80	25.1	0.20	4	1.1
3509070	3	4	<0.5	<0.02	<1	<0.1
3509071	589	89	21.6	0.09	3	0.9
3509072	464	112	14.1	0.20	4	1.1
*Std OREAS 601	26	1254	154	49.95	304	2.4
*Blk BLANK	<2	<1	<0.5	0.03	<1	<0.1
*Std OREAS 520	258	21	131	0.49	147	1.2
*Std OREAS 520	253	21	125	0.37	141	1.1
*Blk BLANK	<2	<1	<0.5	<0.02	<1	<0.1
*Std OREAS 601	27	1250	148	49.45	300	2.4
*Rep 3509072	467	115	13.7	0.18	3	1.1

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509045	0.11	0.09	18.82	49.2	1	19.1
3509046	<0.04	0.11	17.61	43.2	<1	18.8
3509047	0.09	0.15	21.62	32.0	2	19.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509048	<0.04	0.37	17.09	50.0	1	18.2
3509049	<0.04	0.28	14.43	48.0	<1	18.1
3509050	<0.04	0.03	1.00	2.0	<1	1.4
3509051	0.13	0.29	15.82	43.4	2	17.6
3509052	0.12	0.17	15.84	47.1	<1	16.4
3509053	0.07	0.23	18.06	40.9	<1	19.1
3509054	0.07	0.23	16.98	44.6	<1	19.4
3509055	0.08	0.20	16.57	44.9	<1	19.3
3509056	0.08	0.23	13.12	36.1	3	21.6
3509057	0.08	0.06	25.10	7.8	<1	15.3
3509058	0.23	0.27	11.56	34.5	5	21.2
3509059	<0.04	0.08	10.38	47.2	<1	20.7
3509060	0.67	0.21	68.68	15.6	12	18.7
3509061	<0.04	0.09	11.74	46.3	<1	19.7
3509062	<0.04	0.12	15.70	41.4	<1	20.0
3509063	<0.04	0.11	14.00	41.8	<1	20.2
3509064	0.08	0.11	14.01	44.6	1	19.6
3509065	0.06	0.21	12.61	39.6	<1	20.4
3509066	<0.04	0.10	16.10	43.3	<1	19.5
3509067	0.12	1.43	16.85	39.8	4	20.0
3509068	0.06	0.07	24.14	25.8	3	18.4
3509069	0.04	0.14	14.23	46.7	<1	19.2
3509070	<0.04	<0.02	0.92	1.0	<1	0.4
3509071	0.04	0.12	9.96	47.9	<1	19.3
3509072	0.13	0.12	7.55	48.9	2	22.4
*Std OREAS 601	20.11	7.90	58.45	5.3	7	19.4
*Blk BLANK	<0.04	<0.02	<0.05	0.1	<1	<0.1
*Std OREAS 520	2.90	0.04	81.06	207	<1	19.2
*Std OREAS 520	2.79	0.18	80.81	189	<1	18.1

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Bi	@Cd	@Ce	@Co	@Cs	@Ga
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.04	0.02	0.05	0.1	1	0.1
Upper Limit	10,000	10,000	1,000	10,000	1,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Blk BLANK	<0.04	<0.02	<0.05	<0.1	<1	<0.1
*Std OREAS 601	19.63	7.44	67.35	5.9	7	22.1
*Rep 3509072	0.14	0.11	7.86	46.5	1	21.7

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509045	0.93	0.06	7.9	0.24	2.59	4.6
3509046	1.04	0.07	7.5	0.25	1.43	4.1
3509047	1.28	0.04	9.6	0.24	6.25	7.7
3509048	0.86	0.06	7.1	0.24	2.16	2.9
3509049	1.01	0.07	5.8	0.27	1.40	3.1
3509050	0.02	<0.02	0.5	<0.01	0.07	<0.1
3509051	0.96	0.06	6.4	0.26	2.21	2.6
3509052	0.95	0.07	6.3	0.24	1.64	2.1
3509053	1.01	0.06	7.3	0.24	1.94	1.9
3509054	1.05	0.06	6.8	0.25	1.62	2.6
3509055	0.95	0.07	6.9	0.25	1.62	2.4
3509056	0.79	0.06	6.2	0.20	1.76	2.8
3509057	1.44	0.03	12.6	0.22	6.77	11.6
3509058	0.68	0.05	5.9	0.17	7.06	3.3
3509059	0.94	0.07	4.8	0.21	3.28	3.0
3509060	2.35	0.07	34.2	0.36	102	19.3
3509061	1.06	0.07	5.3	0.24	2.97	3.1
3509062	0.78	0.06	7.5	0.22	2.28	3.4
3509063	0.80	0.06	6.8	0.22	5.19	3.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Hf	@In	@La	@Lu	@Mo	@Nb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.02	0.02	0.1	0.01	0.05	0.1
Upper Limit	500	500	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509064	0.90	0.07	6.6	0.24	2.81	3.9
3509065	0.79	0.06	6.0	0.21	1.46	3.5
3509066	0.89	0.07	7.6	0.23	1.54	3.4
3509067	0.66	0.05	8.1	0.21	5.16	3.1
3509068	1.07	0.04	11.5	0.23	2.74	5.8
3509069	1.07	0.07	6.4	0.25	2.19	3.8
3509070	<0.02	<0.02	0.5	<0.01	0.08	<0.1
3509071	1.05	0.08	4.3	0.23	3.40	2.6
3509072	0.64	0.05	3.5	0.16	4.75	1.4
*Std OREAS 601	4.50	1.60	30.3	0.09	4.01	12.9
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 520	3.81	0.12	83.4	0.35	69.36	4.9
*Std OREAS 520	3.70	0.11	80.8	0.36	65.25	5.0
*Blk BLANK	<0.02	<0.02	<0.1	<0.01	<0.05	<0.1
*Std OREAS 601	4.52	1.66	30.3	0.12	4.00	13.9
*Rep 3509072	0.65	0.05	3.3	0.16	4.56	1.5

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509045	3.8	63.9	32.3	2	1.23	0.8
3509046	3.4	38.8	35.2	<2	1.17	0.7
3509047	4.2	70.6	20.6	<2	0.70	0.9
3509048	3.7	58.5	35.8	<2	0.50	0.6
3509049	3.0	47.0	41.8	<2	0.60	0.8
3509050	1.7	1.4	<0.5	<2	0.06	<0.3

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Pb	@Rb	@Sc	@Se	@Sb	@Sn
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.5	0.2	0.5	2	0.05	0.3
Upper Limit	10,000	10,000	10,000	1,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509051	3.7	66.7	40.2	2	1.06	0.7
3509052	3.7	30.3	40.9	2	2.65	0.7
3509053	3.7	30.7	39.5	2	1.90	1.0
3509054	3.3	31.7	39.9	2	1.72	0.9
3509055	3.3	32.1	40.6	2	1.79	0.9
3509056	4.6	85.0	35.7	<2	1.98	0.8
3509057	4.8	84.6	7.0	<2	0.65	1.1
3509058	24.2	134	29.1	2	1.15	1.1
3509059	2.4	36.5	45.8	<2	1.50	0.8
3509060	19.3	171	14.9	2	2.21	3.4
3509061	2.1	26.9	52.0	<2	1.08	0.9
3509062	2.6	40.7	37.7	<2	0.85	0.7
3509063	2.2	50.4	39.9	<2	0.81	0.7
3509064	2.7	48.3	43.1	<2	1.03	0.8
3509065	3.0	46.7	36.2	<2	1.29	0.7
3509066	4.0	38.8	37.8	<2	1.09	0.8
3509067	51.6	94.1	34.7	6	1.14	0.7
3509068	5.6	102	13.2	<2	0.85	0.8
3509069	2.9	35.1	48.3	<2	0.94	1.0
3509070	1.8	1.5	<0.5	<2	0.09	<0.3
3509071	2.0	30.9	56.8	<2	0.72	0.9
3509072	3.2	69.8	41.6	<2	1.10	0.8
*Std OREAS 601	301	92.4	5.3	10	30.09	4.1
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 520	5.6	113	19.0	<2	3.13	4.7
*Std OREAS 520	6.4	108	16.3	<2	2.99	4.4
*Blk BLANK	<0.5	<0.2	<0.5	<2	<0.05	<0.3
*Std OREAS 601	318	99.8	5.1	12	31.23	4.2
*Rep 3509072	3.6	73.3	34.9	<2	1.07	0.7

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
3509045	0.25	0.55	0.24	1.2	0.28	0.63
3509046	0.22	0.57	0.09	1.1	0.15	0.57
3509047	0.40	0.53	0.08	1.6	0.38	1.32
3509048	0.17	0.58	0.07	0.8	0.23	0.43
3509049	0.15	0.57	0.07	0.8	0.20	0.46
3509050	<0.05	<0.05	<0.05	<0.2	<0.02	0.05
3509051	0.13	0.59	0.13	0.7	0.30	0.61
3509052	0.11	0.57	0.13	0.5	0.12	0.28
3509053	0.11	0.58	0.11	0.6	0.13	0.30
3509054	0.14	0.61	0.14	0.7	0.13	0.38
3509055	0.12	0.62	0.15	0.7	0.12	0.37
3509056	0.31	0.47	0.22	0.7	0.42	0.39
3509057	0.79	0.45	0.23	3.1	0.49	1.43
3509058	0.20	0.37	0.27	0.9	0.81	1.06
3509059	0.20	0.44	0.06	1.0	0.14	0.48
3509060	1.33	0.76	0.22	19.4	0.91	4.90
3509061	0.18	0.51	<0.05	0.9	0.11	0.44
3509062	0.23	0.51	0.06	1.0	0.15	0.46
3509063	0.21	0.49	<0.05	1.1	0.19	0.54
3509064	0.21	0.52	0.08	1.2	0.19	0.71
3509065	0.22	0.44	0.12	1.0	0.16	0.47
3509066	0.22	0.53	0.12	1.0	0.14	0.46
3509067	0.20	0.51	0.46	1.1	0.43	0.45
3509068	0.35	0.59	0.12	2.3	0.52	1.11
3509069	0.21	0.57	0.06	1.1	0.14	0.51
3509070	<0.05	<0.05	<0.05	<0.2	<0.02	0.08
3509071	0.13	0.51	0.06	0.6	0.11	0.33
3509072	0.09	0.35	0.10	0.3	0.27	0.29

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number PO: M24987
Project MAX
Submission Number *BBY*MAX20_Core_17/ 256 Cores
(229-256)
Number of Samples 28

ANALYSIS REPORT BBM20-05308

Element	@Ta	@Tb	@Te	@Th	@Tl	@U
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.05	0.05	0.05	0.2	0.02	0.05
Upper Limit	10,000	10,000	1,000	10,000	10,000	10,000
Unit	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m	ppm m / m
*Std OREAS 601	0.97	0.49	14.47	11.2	1.11	3.68
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 520	0.36	0.61	0.32	10.2	0.24	17.18
*Std OREAS 520	0.35	0.68	0.39	9.9	0.24	17.29
*Blk BLANK	<0.05	<0.05	<0.05	<0.2	<0.02	<0.05
*Std OREAS 601	0.88	0.55	15.47	10.8	1.17	3.94
*Rep 3509072	0.08	0.34	0.13	0.3	0.27	0.30

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3509045	2.0	16.8	1.6
3509046	1.2	17.2	1.6
3509047	1.2	16.7	1.6
3509048	0.7	16.9	1.7
3509049	0.8	17.9	1.8
3509050	<0.1	0.3	<0.1
3509051	1.5	17.5	1.7
3509052	1.4	16.6	1.5
3509053	0.9	16.9	1.6
3509054	1.1	17.9	1.7
3509055	1.1	17.8	1.7
3509056	1.8	16.3	1.4
3509057	1.7	16.3	1.5
3509058	2.2	12.8	1.1
3509059	0.7	15.6	1.4
3509060	4.2	27.4	2.4

- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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Order Number	PO: M24987
Project	MAX
Submission Number (229-256)	*BBY*MAX20_Core_17/ 256 Cores
Number of Samples	28

ANALYSIS REPORT BBM20-05308

Element	@W	@Y	@Yb
Method	GE_IMS40Q12	GE_IMS40Q12	GE_IMS40Q12
Lower Limit	0.1	0.1	0.1
Upper Limit	10,000	10,000	1,000
Unit	ppm m / m	ppm m / m	ppm m / m
3509061	0.7	17.9	1.7
3509062	0.6	17.0	1.5
3509063	0.7	16.9	1.5
3509064	1.4	17.6	1.6
3509065	0.7	15.7	1.4
3509066	0.7	17.3	1.6
3509067	1.3	16.9	1.5
3509068	1.8	20.5	1.7
3509069	0.9	20.1	1.7
3509070	<0.1	0.4	<0.1
3509071	0.7	17.1	1.6
3509072	2.1	11.9	1.1
*Std OREAS 601	5.7	11.4	0.6
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 520	45.2	22.6	2.2
*Std OREAS 520	44.4	20.6	2.2
*Blk BLANK	<0.1	<0.1	<0.1
*Std OREAS 601	5.7	11.6	0.6
*Rep 3509072	2.1	11.2	1.1

SGS Canada Minerals Burnaby conforms to the requirements of ISO/IEC17025 for specific tests as listed on their scope of accreditation found at https://www.scc.ca/en/search/laboratories/sgs
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- not analysed | -- element not determined | I.S. insufficient sample | L.N.R. listed not received

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