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- ASSESSMENT REPORT -

2015 LiDAR Report

on the

Wallbridge Mining Limited Properties

Sudbury, Ontario

Table of Contents

Table of Contents	1
List of Figures	1
List of Tables	2
1- Program Summary	3
2- Property Description and Location	3
4 - Accessibility and Physiography	27
5 - Exploration Program	28
6 - Regional Geologic Setting	40
7 - Property Geology	41
8 - Structures.....	43
9 - References	47
10 - Qualifications.....	48

List of Figures

Figure 1: Regional Overview Property Map Showing LiDAR Flight Block.	10
Figure 2: LiDAR Contour Map of the Creighton South and Graham Properties.	30
Figure 3: LiDAR Contour Map of the Drury and Worthington Properties.....	31
Figure 4: LiDAR Contour Map of the Trill Property.	32
Figure 5: LiDAR Contour Map of the Ermatinger and Trill West Properties.	33
Figure 6: LiDAR Contour Map of the Windy Lake, Ministic Lake, Ermatinger CBA, Iron Mask, Cascaden and Cascaden North Properties.	34
Figure 7: LiDAR Contour Map of the Hess, Cartier, Ruza Levack, Harty, Foy North, and Pele Properties.	35
Figure 8: LiDAR Contour Map of the Foy and Rudy’s Lake Properties.....	36
Figure 9: LiDAR Contour Map of the Wisner Property.....	37
Figure 10: LiDAR Contour Map of the Parkin and Barry Properties.....	38
Figure 11: LiDAR Contour Map of the Frost, Skynner, Drill Lake, Victor, and Capreol Properties.....	39
Figure 12. Map of the Wisner Property with structures that have been interpreted from LiDAR data. ...	44
Figure 13. Map of the Worthington Property showing structures that have been interpreted from the LiDAR data.....	45
Figure 14. Map of the Trill Property showing structures that have been interpreted from the LiDAR data.	46

List of Tables

Table 1: Windy Lake Property Claim Status	11
Table 2: Trill Property Claim Status.....	11
Table 3: Foy Property Claim Status	12
Table 4: Skynner Lake Property Claim Status	12
Table 5: Cascaden Property Claim Status	13
Table 6: Creighton South Property Claim Status	13
Table 7: Drury Property Claim Status.....	14
Table 8: Worthington Property Claim Status.....	14
Table 9: Trill West Property Claim Status	15
Table 10: Ermatinger Property Claim Status.....	15
Table 11: Hess CBA Property Claim Status.....	16
Table 12: Ministic Lake Property Claim Status.....	16
Table 13: Ermatinger CBA Property Claim Status	16
Table 14: Pele JV Property Claim Status	17
Table 15: Ruza Property Claim Status	17
Table 16: Rudy’s Lake Property Claim Status.....	18
Table 17: Cascaden North Property Claim Status	18
Table 18: Harty Property Claim Status.....	18
Table 19: Foy North Property Claim Status.....	18
Table 20: Cartier Property Claim Status.....	19
Table 21: Iron Mask Property Claim Status.....	19
Table 22: Bowell Property Claim Status.....	20
Table 23: Wisner West Property Claim Status.....	20
Table 24: Wisner East Property Claim Status.....	20
Table 25: Wisner Glencore Property Claim Status.....	20
Table 26: Wisner Broken Hammer Property Claim Status.....	21
Table 27: Milnet Property Claim Status	21
Table 28: Parkin Property Claim Status.....	22
Table 29: Parkin CBA Property Claim Status	22
Table 30: Parkin East Property Claim Status.....	24
Table 31: Graham Property Claim Status.....	24
Table 32: Frost Lake Property Claim Status	25
Table 33: Victor Property Claim Status	27
Table 34: Drill Lake Property Claim Status.....	27
Table 35: Capreol JV Property Claim Status.....	27

Appendix A – Maps

Appendix B – LiDAR Report

Appendix C – Cost Statement

Appendix D – Invoices

Appendix E – Structural Interpretation

1- Program Summary

The 2015 airborne LiDAR (Light and RADAR) exploration program encompassed nearly all Wallbridge Mining Limited properties surrounding the Sudbury Basin totalling \$86,752 and flown between April 29th and May 2nd, 2015.

2- Property Description and Location

SCJV (Sudbury Camp Joint Venture)

The Windy Lake Property is located within Dowling and Cascaden Townships and contains 1 Exploratory License Only (ELO) – 14930, disposition number G7070029 totalling 1,179 ha (Figure 6 and Table 1).

The Trill Property is located within Totten, Ermatinger and Trill Townships and contains 39 mining claims – 1167119, 1167120, 1229363, 1229501, 1229502, 1229503, 1229948, 1229976, 1229977, 1230737, 1241793, 1246135, 3009381, 3009482, 3009483, 3009484, 3017386, 3017425, 3018802, 3018803, 3018804, 3018805, 3018806, 3018807, 3018808, 3018809, 3018811, 3018844, 3018845, 3018847, 3018848, 3018849, 3018850, 4207192, 4207193, 4207194, 4207195, 4207196, 4207198 totalling 494 units or 7,904 ha, 1 mining lease – S1167121 (disposition G70100012) totalling 258.23 ha, and 1 mining patent – L11 C2 SE ¼ PIN# 73365-0212 totalling 49.22 ha (Figure 4 and Table 2).

The Foy Property is located within Foy and Morgan Townships and contains 7 mining claims – 1222801, 1222811, 1222875, 1237139, 1237140, 1246133, 1246134 totalling 51 units or 816 ha (Figure 8 and Table 3).

The Skynner Lake Property is located within Norman Township and contains 5 mining claims – 1229364, 1229365, 1244361, 1244362, 1244363 totalling 42 units or 672 ha (Figure 11 and Table 4).

The Cascaden Property is located within Cascaden, Levack and Cartier Townships and contains 13 mining claims – 1225796, 1229456, 1229457, 1229458, 1237141, 1237142, 1237143, 1237144, 1237145, 1237146, 1241794, 1246169, 3004117 totalling 106 units or 1,696 ha (Figure 6 and Table 5).

The Creighton South Property is located within Waters and Graham Townships and contains 20 mining claims – 1214603, 1214605, 1229749, 1229750, 1229751, 1229752, 1229753, 1229754, 1229755, 1229756, 1229757, 1229758, 1229759, 1229760, 1229761, 1229762, 1229763, 1229766, 1229767, 1230743 totalling 107 units or 1,712 ha and 1 mining patent – L1 C5 all of W1/2 (PIN# 73381-0724) totalling 64 ha (Figure 2 and Table 6).

The Drury Property is located within Drury and Trill Townships and contains 9 mining claims – 1217045, 1229981, 1229982, 1229984, 1229986, 1230738, 1230739, 1230740, 3018868 totalling 117 units or 1,872 ha (Figure 3 and Table 7).

The Worthington Property is located within Drury and Lorne Townships and contains 7 mining claims – 1217043, 1229772, 1229991, 1229993, 1229995, 1229996, 3004121 totalling 57 units or 912 ha and 1 mining patent – L4 C2 N1/2 (PIN# 73383-0122) totalling 64 ha (Figure 3 and Table 8).

The Trill West Property is located within Hart and Ermatinger Townships and contains 8 mining claims – 3009830, 3009832, 3009833, 3009834, 3009835, 3009836, 3009837, 3009840 totalling 78 units or 1,248 ha (Figure 5 and Table 9).

NRJV (North Range Joint Venture)

The Ermatinger Property is located within Ermatinger, Hart, Vernon and Venturi Townships and contains 22 mining claims – 1246168, 3004868, 4206116, 4245183, 4255355, 4255356, 4255357, 4255358, 4255359, 4255388, 4255389, 4255391, 4255392, 4262273, 4262275, 4262276, 4262277, 4262278, 4262284, 4262286, 4262287, 4278153 totalling 295 units or 4,720 ha (Figure 5 and Table 10).

The Hess CBA Property is located within Harty and Hess Townships and contains 16 mining claims – 1179646, 1179647, 1179649, 1218245, 1224157, 1229424, 1230272, 1230789, 1230847, 1231175, 1231176, 1231179, 3002857, 3002858, 3004319, 4255397 totalling 118 units or 1,888 ha (Figure 7 and Table 11).

The Ministic Lake Property is located within Cascaden and Ermatinger Townships and contains 8 mining claims – 1199058, 1199059, 1229362, 1244715, 1244716, 1244717, 1244718, 1244719 totalling 65 units or 1,040 ha (Figure 6 and Table 12).

The Ermatinger CBA Property is located within Ermatinger Township and contains 5 mining claims – 1214586, 1239143, 1244384, 1244385, 1244386 totalling 66 units or 1,056 ha, and 3 mining leases – S630294, S630295, S630298 (dispositions G7000151, G7000150, G7000152 respectively) totalling 62.14 ha (Figure 6 and Table 13).

The Pele Property is located within Foy and Harty Townships and contains 17 mining claims – 3011523, 3011768, 3011847, 3016232, 3016235, 3017389, 3018763, 3018764, 3018765, 3018769, 3018770, 3018771, 3018794, 3018795, 3018796, 3018797, 3018798 totalling 215 units or 3,440 ha (Figure 7 and Table 14).

The Ruza Levack Property is located within Levack Township and contains 3 mining claims – 3009421, 3009422, 3009424 totalling 35 units or 560 ha (Figure 7 and Table 15).

The Rudy's Lake Property is located within Morgan Township and contains 1 mining claim – 1225797 totalling 9 units or 144 ha (Figure 8 and Table 16).

The Cascaden North Property is located within Cascaden and Hart Townships and contains 5 mining claims – 3009813, 3016653, 3017353, 3018772, 4206118 totalling 62 units or 992 ha (Figure 6 and Table 17).

The Harty Property is located within Harty and Leinster Townships and contains 2 mining claims – 4212454 and 4212461 totalling 6 units or 96 ha (Figure 7 and Table 18).

The Foy North Property is located within Tyrone and Leinster Townships and contains 14 mining claims – 1241741, 1241797, 4212987, 4218570, 4240848, 4245185, 4245190, 4273200, 4273201, 4273202, 4273203, 4273204, 4273205, 4277618 totalling 102 units or 1,632 ha (Figure 7 and Table 19).

The Cartier Property is located within Tyrone and Leinster Townships and contains 26 mining claims – 3000388, 4201127, 4201129, 4201131, 4201133, 4201137, 4201138, 4201139, 4201140, 4201141,

4201142, 4201143, 4201144, 4201162, 4208821, 4208883, 4208887, 4208889, 4208893, 4208894, 4208917, 4208923, 4208925, 4208926, 4208928, 4208933 totalling 249 units or 3,984 ha (Figure 7 and Table 20).

The Iron Mask Property is located within Ermatinger and Hart Townships and contains 9 mining claims – 1043524, 1197716, 1197718, 1197723, 1210838, 1210839, 1214588, 1230856, 1231034 totalling 105 units or 1,680 ha (Figure 6 and Table 21).

Wisner Properties

The Bowell Property is located within Bowell Township and contains 3 mining claims – 1229771, 1230732, 1230733 totalling 15 units or 240 ha (Figure 9 and Table 22).

The Wisner West Property is located within Wisner Township and contains 1 mining lease – S1229369 (disposition G70100097) totalling 125.898 ha (Figure 9 and Table 23).

The Wisner East Property is located within Wisner Township and contains 3 mining claims – 1230727, 1230728, 1246145 totalling 16 units or 256 ha (Figure 9 and Table 24).

The Wisner Glencore Property is located within Bowell and Wisner Townships and contains 25 mining claims – 984613, 984614, 984615, 984625, 984626, 984627, 984628, 984629, 984630, 984631, 984632, 984633, 984639, 984640, 984641, 984642, 984643, 984644, 984645, 984646, 993681, 993682, 993683, 994137, 1246144 totalling 25 units or 384.85 ha and 1 mining patent – RJ1 (PIN# 73522-0115) totalling 15.88 ha (Figure 9 and Table 25).

The Wisner Broken Hammer Property is located within Wisner Township and contains 1 mining lease – L9 C4 S1/2, L10 C4 E1/2 S1/2, PIN# 73522-0202 (disposition G7070169) totalling 125.898 ha (Figure 9 and Table 26).

Parkin Properties

The Milnet Property is located within Parkin Township and contains 2 mining leases – S647601, S647202, S647603, S647604 (PIN# 73524-0015 and disposition G7000089) and S647605 (PIN# 73524-0016) totalling 80.94 ha and 2 mining patents – L5 C2 NW1/4 N1/2 (S5265) PIN# 73524-0053 and L6 C2 NE1/4 S1/2 & L5 C2 NW1/4 S1/2 (S5480 & S5481) PIN# 73524-0054 (disposition G70100105) totalling 48.56 ha (Figure 10 and Table 27).

The Parkin Property is located within Parkin and Norman Township and contains 8 mining leases – S57843 (PIN# 73521-0344) [S60119, S60120, S60121, S60122, S60123, S60124, S60125, S60126 (PIN# 73521-0353)], [S57463 (PIN# 73521-0354)], [S60354 (PIN# 73524-0009)], [S59645, S59646, S59647, S59648, S59649 (PIN# 73524-0010)], [S21893, S22791 (PIN# 73524-0012 and disposition G7000089)], [S56865, S56866, S56867, S56868, S56869, S56870, S56881, S56882, S56883 (PIN# 73524-0013)], [S56862, S56863, S56864, S57460, S57461, S57462 (PIN# 73524-0014)] totalling 503.67 ha and 2 mining patents – L7 C6 NE1/4 of N1/2, (former claim S3244) PIN# 73521-0054 and L6 C6 NW1/4 of N1/2, (former claim S27567) PIN# 73521-0066 (disposition G70100105) totalling 31.10 ha (Figure 10 and Table 28).

The Parkin CBA Property is located within Parkin Township and contains 45 mining claims – 681637, 681638, 681639, 681640, 681641, 681642, 681643, 681644, 681645, 681708, 681709, 721031, 787734, 854516, 854517, 864620, 864621, 894922, 894923, 983946, 983947, 983948, 983949, 983950, 983951, 983952, 983953, 983954, 983955, 983956, 984370, 984371, 984372, 984373, 984391, 984392, 984393, 994721, 994722, 1042895, 1163243, 1174660, 1179474, 1211020, 3004244 totalling 48 units or 768 ha and 2 mining leases – S693958 (PIN# 73524-0018 and disposition G7070027) and S693959, S693960 (PIN# 73524-0017 and disposition G7070028) totalling 48.56 ha (Figure 10 and Table 29).

The Parkin East Property is located within Parkin Township and contains 4 mining claims – 4245171, 4245172, 4245173, 4245174 totalling 50 units or 800 ha (Figure 10 and Table 30).

Other Properties

The Graham Property is located within Graham Township and contains 1 mining claims – 1230748 totalling 32.00 ha and 17 mining patents – L11 C3 pt S of Verm. R. PIN# 73380-0001, L9 C3 N1/2 PIN# 73380-0002 (disposition G70100019), L7 C4 S1/2 of S1/2 L7 C3 N1/2 & S1/2 PIN# 73380-0003, L7 C3 S1/2 PIN# 73380-0005, L8 C4 S1/2 of N1/2 PIN# 73380-0006, L8 C4 N1/2 of S1/2 L7 C4 N1/2 of S1/2 PIN# 73380-0007, L9

C4 S1/2 L10 C4 L11 C4 S1/2 PIN# 73380-0009 (disposition G7000128), L8 C4 S1/2 N1/2 L8C4 S1/2 L7C4 S1/2 L8 C3 L7 C3 PIN# 73380-0191 (disposition G7000124), L6 C3 N1/2 PIN# 73381-0036 (disposition G7000131), L6 C4 S1/2 PIN# 73381-0037 (disposition G7000130), L4 C4 S1/2 PIN# 73381-0040 (disposition G7000134), L3 C5 S1/2 PIN# 73381-0041 (disposition G7000125), L1 C4 N1/2 of N1/2 PIN# 73381-0043 (disposition G7000122), L3 C4 N1/2 PIN# 73381-0044 (disposition G7000126), L2 C4 S1/2 N1/2 L2 C4 N1/2 of S1/2 PIN# 73381-0057 (disposition G7000127), L4 C4 N1/2 PIN# 73381-0058, L5 C4 S1/2 of S1/2 PIN# 73381-0060 (disposition G7000128) totalling 1239.96 ha and 4 mining leases – L11 C3 part (PIN# 73380-0282), L9 C3 N1/2 of S1/2 (PIN# 73380-0283 and disposition G70100021), L10 C3 (PIN# 73380-0284 and disposition G70100021), L9 C4 N1/2 (PIN# 73380-0286 and disposition G7000129) totalling 343.28 ha (Figure 2 and Table 31).

The Frost Lake Property is located within MacLennan, Norman and Capreol Townships and contains 46 mining claims – 985284, 985293, 985294, 985301, 985302, 985303, 985304, 985305, 985306, 985307, 985309, 985310, 985311, 985382, 985387, 985391, 985394, 985395, 985396, 985399, 985400, 985405, 985419, 985420, 985421, 985422, 985423, 985424, 985425, 985426, 985428, 985500, 985501, 985503, 985504, 985505, 985506, 985507, 985508, 985510, 1230089, 1244364, 1244365, 1244366, 1244398, 3004881 totalling 92 units or 1,452 ha and 5 mining patents – S62319 to S62324 incl. (6) PIN# 73510-0075 (disposition G7000146), S86441 to S86444 incl. (4) PIN# 73510-0076 (disposition G7000147), S84427 to S84430 incl (4) PIN# 73510-0107 (disposition G7000145), WR24 (S84431, S84432) PIN# 73510-0108 (disposition G7000145), S29313 PIN# 73510-0187 totalling 233.43 ha and 3 mining license occupation (LO) - lands under water of former claim S62319 to S62324 incl. (6) (Tenure# LO12937), lands under water of former claim S86441 to S86444 incl. (4) (Tenure# LO12938), lands under water of WR24, (S84431 & S84432) (Tenure# LO13060) totalling 32.37 ha (Figure 11 and Table 32).

The Victor Property is located within MacLennan Township and contains 1 mining claim – 1244399 totalling 16 units or 256 ha (Figure 11 and Table 33).

The Drill Lake Property is located within MacLennan Township and contains 1 mining claim – 1231008 totalling 4 units or 64 ha (Figure 11 and Table 34).

The Capreol JV Levack Property is located within Capreol Township and contains 1 mining lease – S1246174 pt 1 plan 53R-19179 (PIN# 73510-0261 and disposition G70100086) totalling 3.72 ha (Figure 11 and Table 35).

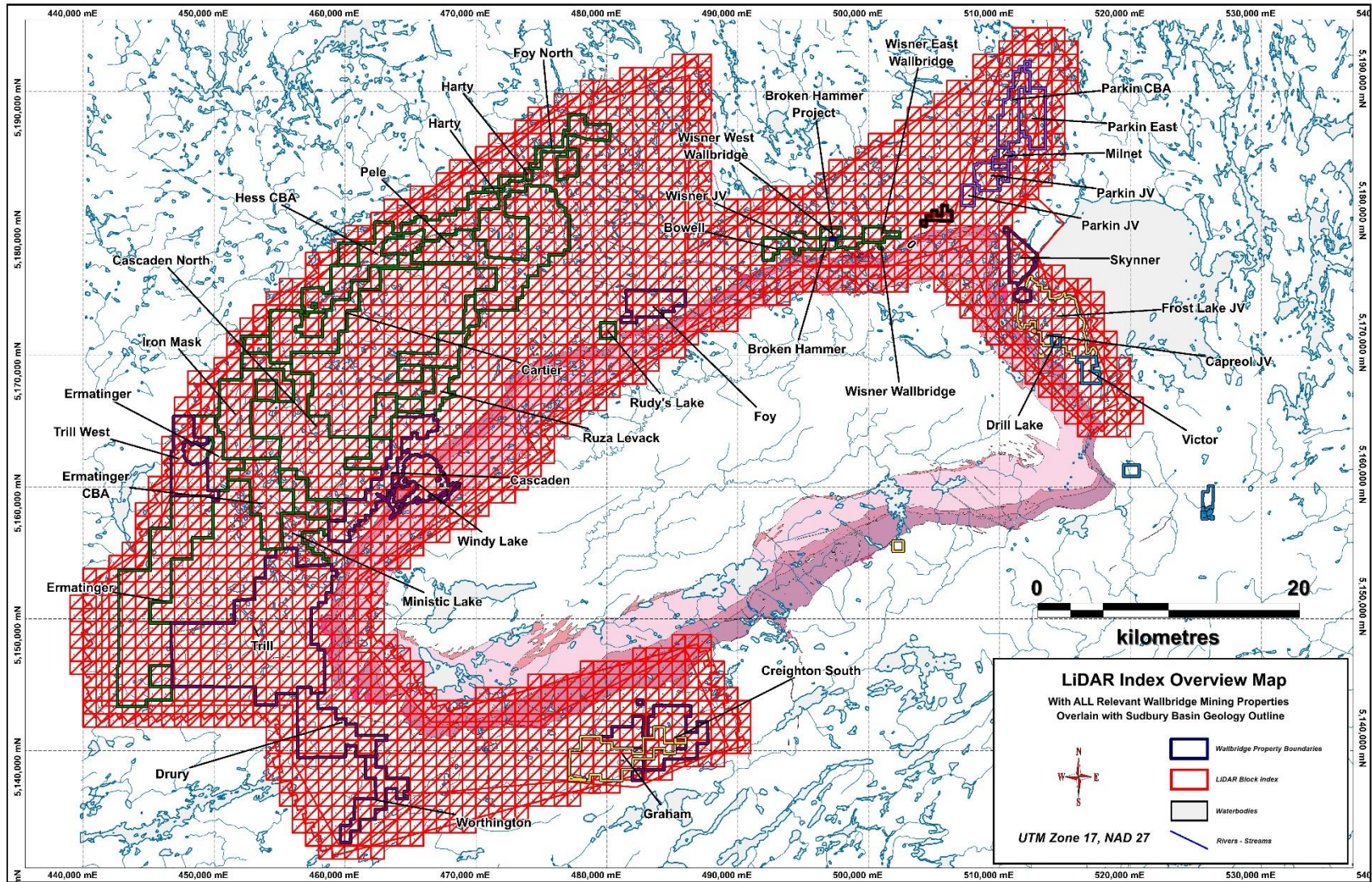


Figure 1: Regional Overview Property Map Showing LiDAR Flight Block.

Table 1: Windy Lake Property Claim Status

Exploratory Licence (ELO):								
Licence Number	Disposition Number	Township	Area (ha)	Rights Held	Holder	Renewal Date	Status	Work (\$) Reserve
14930	G7070029	Dowling & Cascaden	1179.00	MRO	WMCL	30-Jun-2016	EXT	4,295,439

Table 2: Trill Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1167119	Totten	256	16	WMCL	23-Oct-2001	23-Oct-2017	A	6,400	0
1167120	Totten	256	16	WMCL	23-Oct-2001	23-Oct-2017	A	6,400	0
1229363	Trill	256	16	WMCL	29-Oct-1998	29-Oct-2017	A	6,400	0
1229501	Trill	80	5	WMCL	23-Jun-1998	23-Jun-2017	A	2,000	0
1229502	Trill	176	11	WMCL	23-Jun-1998	23-Jun-2017	A	4,400	
1229503	Trill	160	10	WMCL	23-Jun-1998	23-Jun-2017	A	4,000	57,991
1229948	Trill	256	16	WMCL	21-Feb-2000	21-Feb-2017	A	6,400	26,795
1229976	Trill	240	15	WMCL	03-Feb-1998	03-Feb-2017	A	6,000	227,462
1229977	Trill	256	16	WMCL	03-Feb-1998	03-Feb-2017	A	6,400	493,875
1230737	Trill	96	6	WMCL	21-Feb-2000	21-Feb-2017	A	2,400	0
1241793	Trill	48	3	WMCL	30-Mar-2000	30-Mar-2017	A	1,200	0
1246135	Trill	48	3	WMCL	18-Jun-2002	18-Jun-2017	A	1,200	0
3009381	Totten	96	6	WMCL	04-Jun-2004	04-Jun-2017	A	2,400	0
3009482	Totten	256	16	WMCL	04-Jun-2004	04-Jun-2017	A	6,400	55,897
3009483	Totten	256	16	WMCL	04-Jun-2004	04-Jun-2017	A	6,400	0
3009484	Totten	256	16	WMCL	04-Jun-2004	04-Jun-2017	A	6,400	223,503
3017386	Totten	32	2	WMCL	07-Jul-2005	07-Jul-2017	A	800	58,881
3017425	Totten	32	2	WMCL	07-Jul-2005	07-Jul-2017	A	800	58,881
3018802	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	0
3018803	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	7,249
3018804	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	
3018805	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	7,249
3018806	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	0
3018807	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	0
3018808	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	0
3018809	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	0
3018811	Totten	208	13	WMCL	25-Jul-2005	25-Jul-2017	A	5,200	0
3018844	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	0
3018845	Totten	224	14	WMCL	08-Jul-2005	08-Jul-2017	A	5,600	1,386
3018847	Totten	256	16	WMCL	08-Jul-2005	08-Jul-2017	A	6,400	0

3018848	Totten	256	16	WMCL	08-Jul-2005	08-Jul-2017	A	6,400	7,249
3018849	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	
3018850	Totten	256	16	WMCL	25-Jul-2005	25-Jul-2017	A	6,400	
4207192	Ermatinger	128	8	WMCL	25-May-2005	25-May-2018	A	3,200	
4207193	Ermatinger	256	16	WMCL	25-May-2005	25-May-2017	A	6,400	
4207194	Ermatinger	128	8	WMCL	25-May-2005	25-May-2018	A	3,200	
4207195	Totten	256	16	WMCL	25-May-2005	25-May-2017	A	6,400	73,485
4207196	Totten	256	16	WMCL	25-May-2005	25-May-2017	A	6,400	0
4207198	Totten	64	4	WMCL	25-May-2005	25-May-2017	A	1,600	1,792

Mining Lease:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73363-0003	S1167121	Totten	258.23	MSR	WMCL	12-Nov-2030	G70100012	108405	1,135,723

Mining Patent:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Work (\$) Reserve
73365-0212	L11 C2 SE 1/4	Trill	42.99	MRO	WMCL	0

Table 3: Foy Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1222801	Foy	256	16	WMCL	11-Mar-1997	08-May-2018	A	6400	326,456
1222811	Foy	192	12	WMCL	11-Mar-1997	08-May-2018	A	4800	395,654
1222875	Foy	192	12	WMCL	11-Mar-1997	08-May-2018	A	4800	80,730
1237139	Foy	32	2	WMCL	12-Nov-1999	12-Nov-2018	A	800	2,411
1237140	Morgan	32	2	WMCL	12-Nov-1999	12-Nov-2018	A	800	3,365
1246133	Morgan	48	3	WMCL	05-Mar-2001	05-Mar-2018	A	1200	12,681
1246134	Morgan	64	4	WMCL	05-Mar-2001	05-Mar-2018	A	1600	16,646

Table 4: Skyenner Lake Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1229364	Norman	48	3	WMCL	29-Oct-1998	29-Oct-2020	A	1200	114,637
1229365	Norman	96	6	WMCL	29-Oct-1998	29-Oct-2019	A	2400	602,223
1244361	Norman	224	14	WMCL	28-Jul-2000	28-Jul-2020	A	5600	9,235
1244362	Norman	160	10	WMCL	28-Jul-2000	28-Jul-2020	A	4000	805,397

1244363	Norman	144	9	WMCL	28-Jul-2000	28-Jul-2020	A	3600	774,823
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Table 5: Cascaden Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1225796	Cascaden	176	11	WMCL	27-Jan-1999	27-Jan-2017	A	4400	0
1229456	Cascaden	128	8	WMCL	29-Oct-1998	29-Oct-2017	A	3200	0
1229457	Cascaden	144	9	WMCL	29-Oct-1998	29-Oct-2017	A	3600	3052
1229458	Cascaden	96	6	WMCL	29-Oct-1998	29-Oct-2017	A	2400	96713
1237141	Cascaden	256	16	WMCL	12-Nov-1999	12-Nov-2017	A	6400	0
1237142	Cascaden	80	5	WMCL	12-Nov-1999	12-Nov-2017	A	2000	0
1237143	Levack	32	2	WMCL	16-Dec-1999	16-Dec-2017	A	800	0
1237144	Levack	112	7	WMCL	16-Dec-1999	16-Dec-2017	A	2800	3560
1237145	Cartier	112	7	WMCL	16-Dec-1999	16-Dec-2017	A	2800	3560
1237146	Cartier	256	16	WMCL	16-Dec-1999	16-Dec-2017	A	6400	0
1241794	Cascaden	64	4	WMCL	30-Mar-2000	30-Mar-2017	A	1600	0
1246169	Cascaden	16	1	WMCL	13-Feb-2002	13-Feb-2017	A	400	0
3004117	Cascaden	224	14	WMCL	01-Mar-2004	01-Mar-2017	A	5600	0

Table 6: Creighton South Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1214603	Waters	192	12	WMCL	26-Nov-1997	26-Nov-2018	A	4800	12,827
1214605	Waters	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	18,980
1229749	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	6,026
1229750	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	14,306
1229751	Graham	16	1	WMCL	26-Nov-1997	26-Nov-2018	A	400	2,470
1229752	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	17,847
1229753	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	31,907
1229754	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	12,619
1229755	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	21,629
1229756	Waters	32	2	WMCL	26-Nov-1997	26-Nov-2018	A	800	6,226
1229757	Graham	256	16	WMCL	26-Nov-1997	26-Nov-2018	A	6400	22,819
1229758	Graham	192	12	WMCL	26-Nov-1997	26-Nov-2018	A	4800	379,966
1229759	Graham	32	2	WMCL	26-Nov-1997	26-Nov-2018	A	800	2,138
1229760	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	10,990
1229761	Graham	96	6	WMCL	26-Nov-1997	26-Nov-2018	A	2400	89,746
1229762	Graham	192	12	WMCL	26-Nov-1997	26-Nov-2018	A	4800	12,827
1229763	Graham	32	2	WMCL	26-Nov-1997	26-Nov-2018	A	800	2,138
1229766	Graham	64	4	WMCL	26-Nov-1997	26-Nov-2018	A	1600	4,276

1229767	Waters	32	2	WMCL	26-Nov-1997	26-Nov-2018	A	800	16,841
1230743	Waters	64	4	WMCL	09-Feb-1998	09-Feb-2018	A	1,600	18,978

Mining Patent:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Disposition Number	Work (\$) Reserve
73381-0724	L1 C5 all of W1/2	Graham	64.00	MRO	WMCL	G7000121	20,716

Table 7: Drury Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1217045	Drury	256	16	WMCL	01-Mar-2000	01-Mar-2017	A	6,400	0
1229981	Drury	128	8	WMCL	03-Feb-1998	03-Feb-2017	A	3,200	0
1229982	Drury	256	16	WMCL	03-Feb-1998	03-Feb-2017	A	6,400	0
1229984	Trill	256	16	WMCL	03-Feb-1998	03-Feb-2017	A	6,400	0
1229986	Drury	32	2	WMCL	03-Feb-1998	03-Feb-2017	A	800	0
1230738	Drury	256	16	WMCL	01-Mar-2000	01-Mar-2017	A	6,400	0
1230739	Drury	256	16	WMCL	01-Mar-2000	01-Mar-2017	A	6,400	0
1230740	Drury	176	11	WMCL	01-Mar-2000	01-Mar-2017	A	4,400	0
3018868	Drury	256	16	WMCL	03-Feb-1998	03-Feb-2017	A	6,400	0

Table 8: Worthington Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1217043	Drury	256	16	WMCL	14-May-1998	14-May-2017	A	6,400	0
1229772	Lorne	64	4	WMCL	14-May-1998	14-May-2017	A	1,600	0
1229991	Drury	112	7	WMCL	14-May-1998	14-May-2017	A	2,800	0
1229993	Drury	96	6	WMCL	14-May-1998	14-May-2017	A	2,400	0
1229995	Drury	256	16	WMCL	14-May-1998	14-May-2017	A	6,400	0
1229996	Lorne	96	6	WMCL	14-May-1998	14-May-2017	A	2,400	7,725
3004121	Drury	32	2	WMCL	09-Jun-2003	09-Jun-2017	A	800	0

Mining Patent:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Lease Renewal Date	Work (\$) Reserve
73383-0122	L4 C2 N1/2	Drury	64.752	MSR	Greater Sudbury	13-Dec-2018	0

Table 9: Trill West Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
3009830	Hart	256	16	WMCL	16-Mar-2006	16-Mar-2017	A	6,400	0
3009832	Ermatinger	128	8	WMCL	16-Mar-2006	16-Mar-2017	A	3,200	0
3009833	Ermatinger	48	3	WMCL	16-Mar-2006	16-Mar-2017	A	1,200	0
3009834	Ermatinger	208	13	WMCL	27-Mar-2006	27-Mar-2017	A	5,200	0
3009835	Ermatinger	112	7	WMCL	27-Mar-2006	27-Mar-2017	A	2,800	0
3009836	Ermatinger	256	16	WMCL	27-Mar-2006	27-Mar-2017	A	6,400	0
3009837	Ermatinger	208	13	WMCL	27-Mar-2006	27-Mar-2017	A	5,200	114,407
3009840	Ermatinger	32	2	WMCL	27-Mar-2006	27-Mar-2017	A	800	0

Table 10: Ermatinger Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1246168	Ermatinger	256	16	WMCL	09-Aug-2001	09-Aug-2017	A	6,400	0
3004868	Ermatinger	224	14	WMCL	28-Jul-2003	28-Jul-2017	A	5,600	0
4206116	Hart	64	4	WMCL	19-May-2006	19-May-2017	A	1,600	0
4245183	Ermatinger	112	7	WMCL	18-Nov-2010	18-Nov-2017	A	2,800	0
4255355	Ermatinger	256	16	WMCL	16-Nov-2010	16-Nov-2016	abn	0	0
4255356	Ermatinger	256	16	WMCL	16-Nov-2010	16-Nov-2017	A	6,400	0
4255357	Ermatinger	256	16	WMCL	16-Nov-2010	16-Nov-2016	A	6,400	0
4255358	Ermatinger	256	16	WMCL	16-Nov-2010	16-Nov-2016	A	6,400	0
4255359	Ermatinger	256	16	WMCL	16-Nov-2010	16-Nov-2016	A	6,400	0
4255388	Vernon	128	8	WMCL	31-Dec-2010	31-Dec-2016	A	3,200	0
4255389	Vernon	256	16	WMCL	31-Dec-2010	31-Dec-2016	A	6,400	0
4255391	Vernon	256	16	WMCL	31-Dec-2010	31-Dec-2016	A	6,400	0
4255392	Vernon	256	16	WMCL	31-Dec-2010	31-Dec-2016	A	6,400	0
4262273	Venturi	256	16	WMCL	29-Jul-2011	29-Jul-2017	A	6,400	0
4262275	Vernon	256	16	WMCL	29-Jul-2011	29-Jul-2017	A	6,400	0
4262276	Vernon	256	16	WMCL	29-Jul-2011	29-Jul-2017	A	6,400	0
4262277	Vernon	256	16	WMCL	29-Jul-2011	29-Jul-2017	A	6,400	0
4262278	Vernon	256	16	WMCL	29-Jul-2011	29-Jul-2017	A	6,400	0
4262284	Vernon	128	8	WMCL	29-Jul-2011	29-Jul-2016	abn	0	0
4262286	Vernon	192	12	WMCL	29-Jul-2011	29-Jul-2016	abn	0	0
4262287	Venturi	256	16	WMCL	09-Aug-2011	09-Aug-2017	A	6,400	0
4278153	Venturi	32	2	WMCL	05-May-2014	05-May-2017	A	800	0

Table 11: Hess CBA Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1179646	Harty	96	6	WMCL	26-Nov-1996	02-Apr-2017	A	2,400	15,194
1179647	Harty	144	9	WMCL	26-Nov-1996	02-Apr-2017	A	3,600	0
1179649	Harty	240	15	WMCL	26-Nov-1996	02-Apr-2017	A	6,000	0
1218245	Harty	64	4	WMCL	01-Dec-1997	08-Apr-2017	A	1,600	0
1224157	Hess	240	15	WMCL	20-Apr-1998	20-Apr-2017	A	6,000	0
1229424	Hess	80	5	WMCL	10-Jun-1999	16-Oct-2017	A	2,000	0
1230272	Hess	96	6	WMCL	#####	15-Jul-2017	A	2,400	0
1230789	Harty	96	6	WMCL	22-Oct-1998	27-Feb-2017	A	2,400	899
1230847	Hess	16	1	WMCL	20-Apr-1998	20-Apr-2017	A	400	0
1231175	Hess	192	12	WMCL	09-Dec-1998	16-Apr-2017	A	4,800	0
1231176	Hess	256	16	WMCL	09-Dec-1998	16-Apr-2017	A	6,400	0
1231179	Hess	160	10	WMCL	09-Dec-1998	16-Apr-2017	A	4,000	0
3002857	Hess	48	3	WMCL	02-Aug-2002	02-Aug-2017	A	1,200	0
3002858	Hess	96	6	WMCL	02-Aug-2002	02-Aug-2017	A	2,400	15,627
3004319	Hess	16	1	WMCL	11-Sep-2002	11-Sep-2017	A	400	0
4255397	Harty	48	3	WMCL	31-Dec-2010	31-Dec-2017	A	1,200	0

Table 12: Ministic Lake Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1199058	Cascaden	112	7	WMCL	13-Mar-2002	13-Mar-2017	A	2,800	0
1199059	Cascaden	48	3	WMCL	06-Mar-2002	06-Mar-2017	A	1,200	0
1229362	Cascaden	256	16	WMCL	29-Oct-1998	29-Oct-2017	A	6,400	0
1244715	Cascaden	160	10	WMCL	10-May-2000	10-May-2018	A	4,000	0
1244716	Cascaden	32	2	WMCL	10-May-2000	10-May-2018	A	800	0
1244717	Cascaden	112	7	WMCL	10-May-2000	10-May-2018	A	2,800	0
1244718	Ermatinger	176	11	WMCL	10-May-2000	10-May-2018	A	4,400	0
1244719	Ermatinger	144	9	WMCL	10-May-2000	10-May-2017	abn	0	0

Table 13: Ermatinger CBA Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1214586	Ermatinger	192	12	WMCL CBRL	23-Feb-1998	18-Mar-2017	A	4,800	0
1239143	Ermatinger	208	13	WMCL CBRL	13-Apr-2000	06-May-2017	A	5,200	0
1244384	Ermatinger	224	14	WMCL CBRL	31-Jul-2000	23-Aug-2017	A	5,600	0

1244385	Ermatinger	240	15	WMCL CBRL	31-Jul-2000	23-Aug-2017	A	6,000	0
1244386	Ermatinger	192	12	WMCL CBRL	31-Jul-2000	23-Aug-2016	A	4,800	0

Mining Lease:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73356-0001	S630298	Ermatinger	12.02	MSR	CBRL	31-May-2033	G7000152	109419	0
73356-0002	S630294	Ermatinger	24.53	MSR	CBRL	31-May-2033	G7000151	109417	0
73356-0003	S630295	Ermatinger	25.59	MRO	CBRL	31-May-2033	G7000150	109418	0

Table 14: Pele JV Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
3011523	Foy	176	11	PMR	11-May-2005	11-May-2016	abn	0	0
3011768	Foy	256	16	PMR	11-May-2005	11-May-2016	abn	0	0
3011847	Harty	208	13	PMR	13-Jun-2005	13-Jun-2017	A	5,200	0
3016232	Harty	256	16	PMR	13-Jun-2005	13-Jun-2016	abn	0	0
3016235	Foy	256	16	PMR	13-Jun-2005	13-Jun-2016	abn	0	0
3017389	Harty	192	12	PMR	08-Jul-2005	08-Jul-2016	abn	0	0
3018763	Harty	128	8	PMR	29-Aug-2005	29-Aug-2016	abn	0	0
3018764	Harty	128	8	PMR	29-Aug-2005	29-Aug-2016	abn	0	0
3018765	Harty	208	13	PMR	29-Aug-2005	29-Aug-2016	abn	0	0
3018769	Harty	128	8	PMR	29-Aug-2005	29-Aug-2016	abn	0	0
3018770	Harty	256	16	PMR	29-Aug-2005	29-Aug-2016	abn	0	0
3018771	Harty	256	16	PMR	29-Aug-2005	29-Aug-2016	abn	0	0
3018794	Harty	176	11	PMR	06-Sep-2005	06-Sep-2017	A	4,400	0
3018795	Harty	192	12	PMR	06-Sep-2005	06-Sep-2017	A	4,800	0
3018796	Harty	256	16	PMR	06-Sep-2005	06-Sep-2017	A	6,400	0
3018797	Harty	256	16	PMR	06-Sep-2005	06-Sep-2016	abn	0	0
3018798	Harty	112	7	PMR	06-Sep-2005	06-Sep-2016	abn	0	0

Table 15: Ruza Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
3009421	Levack	160	10	WMCL	03-May-2004	03-May-2017	A	4,000	0
3009422	Levack	224	14	WMCL	03-May-2004	03-May-2017	A	5,600	0
3009424	Levack	176	11	WMCL	03-May-2004	03-May-2017	A	4,400	0

Table 16: Rudy's Lake Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1225797	Morgan	144	9	WMCL	27-Jan-1999	27-Jan-2017	A	3,600	135

Table 17: Cascaden North Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
3009813	Cascaden	256	16	WMCL	21-Feb-2006	21-Feb-2017	abn	0	0
3016653	Cascaden	128	8	WMCL	08-Feb-2006	08-Feb-2017	abn	0	0
3017353	Cascaden	240	15	WMCL	08-Feb-2006	08-Feb-2017	abn	0	0
3018772	Cascaden	256	16	WMCL	08-Feb-2006	08-Feb-2017	abn	0	0
4206118	Hart	112	7	WMCL	05-Jun-2006	05-Jun-2018	A	2,800	0

Table 18: Harty Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
4212454	Leinster	48	3	WMCL	12-Feb-2007	12-Feb-2019	A	1,200	0
4212461	Harty	48	3	WMCL	12-Feb-2007	12-Feb-2019	A	1,200	0

Table 19: Foy North Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1241741	Tyrone	224	14	WMCL	05-Apr-2000	05-Apr-2019	A	5,600	0
1241797	Tyrone	256	16	WMCL	11-Feb-2009	11-Feb-2020	A	6,400	440,021
4212987	Tyrone	144	9	WMCL	11-Feb-2009	11-Feb-2020	A	3,600	347,874
4218570	Tyrone	96	6	WMCL	22-Oct-2012	22-Oct-2020	A	2,400	30,808
4240848	Tyrone	192	12	WMCL	27-May-2008	27-May-2019	A	4,800	0
4245185	Tyrone	80	5	WMCL	22-Oct-2012	22-Oct-2020	A	2,000	5,752
4245190	Tyrone	144	9	WMCL	21-Sep-2015	21-Sep-2019	A	3,600	0
4273200	Tyrone	16	1	WMCL	02-Jul-2014	02-Jul-2019	A	400	0
4273201	Tyrone	64	4	WMCL	02-Jul-2014	02-Jul-2019	A	1,600	0
4273202	Tyrone	64	4	WMCL	02-Jul-2014	02-Jul-2019	A	1,600	0
4273203	Leinster	48	3	WMCL	02-Jul-2014	02-Jul-2016	abn	0	0
4273204	Leinster	32	2	WMCL	02-Jul-2014	02-Jul-2016	abn	0	0

4273205	Leinster	112	7	WMCL	02-Jul-2014	02-Jul-2019	A	2,800	0
4277618	Tyrone	160	10	WMCL	14-Aug-2014	14-Aug-2019	A	4,000	0

Table 20: Cartier Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
3000388	CARTIER	192	12	WMCL	26-Apr-2004	26-Apr-2017	abn	0	0
4201127	HESS	224	14	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201129	HESS	192	12	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201131	HESS	256	16	WMCL	25-Nov-2005	25-Nov-2017	A	6,400	0
4201133	CARTIER	240	15	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201137	CARTIER	160	10	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201138	Hart	128	8	WMCL	25-Nov-2005	25-Nov-2017	A	3,200	0
4201139	HESS	112	7	WMCL	25-Nov-2005	25-Nov-2017	A	2,800	0
4201140	Hart	256	16	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201141	Hart	112	7	WMCL	25-Nov-2005	25-Nov-2017	A	2,800	0
4201142	Hart	256	16	WMCL	25-Nov-2005	25-Nov-2017	A	6,400	0
4201143	Hart	128	8	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201144	CARTIER	32	2	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4201162	LEVACK	16	1	WMCL	14-Nov-2005	27-Sep-2016	abn	0	0
4208821	HESS	128	8	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4208883	CARTIER	192	12	WMCL	25-Nov-2005	08-Oct-2016	abn	0	0
4208887	CARTIER	256	16	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4208889	CARTIER	80	5	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4208893	HESS	96	6	WMCL	25-Nov-2005	25-Nov-2017	A	2,400	0
4208894	HESS	48	3	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4208917	LEVACK	32	2	WMCL	25-Nov-2005	08-Oct-2016	abn	0	0
4208923	LEVACK	224	14	WMCL	14-Nov-2005	27-Sep-2016	abn	0	0
4208925	LEVACK	128	8	WMCL	14-Nov-2005	27-Sep-2016	abn	0	0
4208926	LEVACK	256	16	WMCL	14-Nov-2005	27-Sep-2016	abn	0	0
4208928	Hart	96	6	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0
4208933	LEVACK	144	9	WMCL	25-Nov-2005	25-Nov-2016	abn	0	0

Table 21: Iron Mask Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1043524	Hart	256	16	WMCL	28-Mar-2000	03-Aug-2017	A	6,400	0
1197716	Hart	96	6	WMCL	23-Feb-1998	23-Feb-2017	A	2,400	0
1197718	Hart	144	9	WMCL	23-Feb-1998	23-Feb-2017	A	3,600	0
1197723	Hart	192	12	WMCL	23-Feb-1998	23-Feb-2017	A	4,800	0

1210838	Hart	32	2	WMCL	12-Sep-1995	18-Jan-2018	A	800	0
1210839	Hart	256	16	WMCL	12-Sep-1995	18-Jan-2017	A	6,400	0
1214588	Ermatinger	256	16	WMCL	23-Feb-1998	23-Feb-2017	A	6,400	0
1230856	Hart	192	12	WMCL	16-Mar-1998	16-Mar-2017	A	4,800	0
1231034	Hart	256	16	WMCL	20-May-2003	20-May-2017	A	6,400	0

Table 22: Bowell Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1229771	Bowell	128	8	WMCL	07-Jan-1999	07-Jan-2021	A	3,200	23,750
1230732	Bowell	32	2	WMCL	07-Jan-1999	07-Jan-2021	A	800	6,480
1230733	Bowell	80	5	WMCL	07-Jan-1999	07-Jan-2021	A	2,000	14,555

Table 23: Wisner West Property Claim Status

Mining Lease:									
PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73522-0207	S1229369	Wisner	125.898	MSR	WMCL	03-Jun-2031	G70100097	108508	589,061

Table 24: Wisner East Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1230727	Wisner	48	3	WMCL	01-Mar-2000	01-Mar-2019	A	1,200	105,830
1230728	Wisner	192	12	WMCL	01-Mar-2000	01-Mar-2019	A	4,800	236,259
1246145	Wisner	16	1	WMCL	10-Sep-2002	10-Sep-2019	A	400	0

Table 25: Wisner Glencore Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
984613	Bowell	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984614	Bowell	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984615	Bowell	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984625	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984626	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984627	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984628	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984629	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	392,590

984630	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	90,201
984631	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	20,556
984632	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	42,451
984633	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	296,150
984639	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	39,759
984640	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984641	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,317
984642	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	245,538
984643	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	242,623
984644	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984645	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
984646	Wisner	16	1	GCC	06-May-1987	06-May-2020	A	400	13,257
993681	Wisner	16	1	GCC	04-Sep-1987	04-Sep-2020	A	400	175,562
993682	Wisner	16	1	GCC	04-Sep-1987	04-Sep-2020	A	400	162,284
993683	Wisner	16	1	GCC	04-Sep-1987	04-Sep-2020	A	400	19,024
994137	Wisner	16	1	GCC	04-Sep-1987	04-Sep-2020	A	400	124,671
1246144	Wisner	0.85	1	WMCL	10-Sep-2002	04-Sep-2020	A	400	8,981

Mining Patent:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Disposition Number	Work (\$) Reserve
73522-0115	RJ1	Wisner	15.88	MSR	GCC	7000139	\$73,464

Table 26: Wisner Broken Hammer Property Claim Status

Mining Lease:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73522-0202	L9 C4 S1/2,L10 C4 E1/2 S1/2	Wisner	97.02	MSR	WMCL	01-Sep-2028	G7070169	108106	1,761,626

Table 27: Milnet Property Claim Status

Mining Patent:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Disposition Number	Work (\$) Reserve
73524-0053	L5 C2 NW1/4 N1/2 (S5265)	Parkin	16.19	MSR	WMCL		0
73524-0054	L6 C2 NE1/4 S1/2 & L5 C2 NW1/4 S1/2 (S5480 & S5481)	Parkin	32.37	MSR	WMCL	G70100105	88,859

Mining Lease:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
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73524-0015	S647601, S647202, S647603, S647604	Parkin	64.75	MSR	WMCL	31-Jul-2029	G7000089	108251	3,930,511
73524-0016	S647605	Parkin	16.19	MSR	WMCL	31-Jul-2029		108250	0

Table 28: Parkin Property Claim Status

Mining Lease:									
PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73521-0344	S57843	Norman	15.78	MSR	WMCL	28-Feb-2032		108706	0
73521-0353	S60119, S60120, S60121, S60122, S60123, S60124, S60125, S60126	Norman	137.81	MSR	WMCL	31-May-2020		107244	0
73521-0354	S57463	Norman	15.17	MSR	WMCL	30-Jun-2020		107246	0
73524-0009	S60354	Parkin	16.39	MSR	WMCL	30-Sep-2021		108578	0
73524-0010	S59645, S59646, S59647, S59648, S59649	Parkin	65.05	MSR	WMCL	31-Aug-2021		108577	0
73524-0012	S21893, S22791	Parkin	33.10	MSR	WMCL	31-Mar-2020	G70100013	107243	407,613
73524-0013	S56865, S56866, S56867, S56868, S56869, S56870, S56881, S56882, S56883	Parkin	120.59	MSR	WMCL	31-May-2020		107245	0
73524-0014	S56862, S56863, S56864, S57460, S57461, S57462	Parkin	99.78	MSR	WMCL	30-Jun-2020		107247	404,651

Mining Patent:									
PIN #	Description	Township	Area (ha)	Rights Held	Holder	Disposition Number	Work (\$) Reserve		
73521-0054	L7 C6 NE1/4 of N1/2, (former claim S3244)	Norman	15.93	MSR	WMCL		0		
73521-0066	L6 C6 NW1/4 of N1/2, (former claim S27567)	Norman	15.17	MSR	WMCL		0		

Table 29: Parkin CBA Property Claim Status

Mining Claims:										
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve	
681637	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	0	
681638	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	0	

681639	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	0
681640	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	0
681641	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	17,865
681642	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	17,413
681643	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	1,084
681644	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	1,031
681645	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	25
681708	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	0
681709	Parkin	16	1	CBRL	27-Apr-1983	02-Sep-2019	A	400	15,634
721031	Parkin	16	1	CBRL	28-Sep-1983	03-Feb-2019	A	400	25
787734	Parkin	16	1	CBRL	13-Sep-1984	19-Jan-2019	A	400	25
854516	Parkin	16	1	CBRL	30-Sep-1985	05-Feb-2019	A	400	245,035
854517	Parkin	16	1	CBRL	30-Sep-1985	05-Feb-2019	A	400	302,519
864620	Parkin	16	1	CBRL	28-Oct-1985	04-Mar-2019	A	400	25
864621	Parkin	16	1	CBRL	28-Oct-1985	04-Mar-2019	A	400	25
894922	Parkin	16	1	CBRL	12-Jun-1986	18-Oct-2019	A	400	0
894923	Parkin	16	1	CBRL	12-Jun-1986	18-Oct-2019	A	400	0
983946	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983947	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983948	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983949	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983950	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983951	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983952	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983953	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	409
983954	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	0
983955	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	0
983956	Parkin	16	1	CBRL	15-Apr-1987	21-Aug-2019	A	400	0
984370	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
984371	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
984372	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
984373	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
984391	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
984392	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
984393	Parkin	16	1	CBRL	30-Apr-1987	05-Sep-2019	A	400	0
994721	Parkin	16	1	CBRL	23-Dec-1987	29-Apr-2019	A	400	0
994722	Parkin	16	1	CBRL	23-Dec-1987	29-Apr-2019	A	400	0
1042895	Parkin	16	1	CBRL	07-Apr-1989	13-Aug-2019	A	400	0
1163243	Parkin	16	1	CBRL	25-Oct-1999	01-Mar-2019	A	400	0
1174660	Parkin	16	1	CBRL	31-Jan-1995	31-Jan-2019	A	400	120,311
1179474	Parkin	16	1	CBRL	24-Aug-1992	30-Dec-2019	A	400	25
1211020	Parkin	16	1	CBRL	23-Nov-2001	30-Mar-2019	A	400	71,725
3004244	Parkin	64	4	CBRL	12-Aug-2002	12-Aug-2019	A	1,600	0

Mining Lease:									
PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73524-0018	S693958	Parkin	16.19	MSR	CBRL	31-Oct-2032	G7070027	108882	296,984
73524-0017	S693959, S693960	Parkin	32.38	MSR	CBRL	31-Oct-2032	G7070028	108881	503,060

Table 30: Parkin East Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
4245171	Parkin	240	15	WMCL	09-Aug-2011	09-Aug-2018	A	6000	0
4245172	Parkin	256	16	WMCL	09-Aug-2011	09-Aug-2018	A	6400	0
4245173	Parkin	64	4	WMCL	09-Aug-2011	09-Aug-2018	A	1600	0
4245174	Parkin	240	15	WMCL	09-Aug-2011	09-Aug-2017	A	6000	0

Table 31: Graham Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1230748	Graham	32.00	1	WMCL	21-Nov-2000	21-Nov-2017	A	800	1,959

Mining Patent:									
PIN #	Description	Township	Area (ha)	Rights Held	Holder	Disposition Number	Work (\$) Reserve		
73380-0001	L11 C3 pt S of Verm. R.	Graham	16.99	MSR	GCC				
73380-0002	L9 C3, N1/2	Graham	64.95	MSR	GCC	G70100019	7,115		
73380-0003	L7 C4, S1/2 of S1/2; L7 C3, N1/2 & S1/2	Graham	98.02	SRO	GCC				
73380-0005	L7 C3, S1/2	Graham	52.82	SRO	GCC				
73380-0006	L8 C4 S1/2 of N1/2	Graham	32.37	SRO	GCC				
73380-0007	L8 C4, N1/2 of S1/2; L7 C4, N1/2 of S1/2	Graham	64.84	SRO	GCC				
73380-0009	L9 C4, S1/2; L10 C4; L11 C4, S1/2	Graham	220.54	MSR	GCC	G7000128	22,511		
73380-0191	L8 C4, S1/2 N1/2; L8C4, S1/2; L7C4 S1/2; L8 C3; L7 C3	Graham	419.81	MRO	GCC	G7000124	154,703		
73381-0036	L6 C3, N1/2	Graham	64.07	MSR	GCC	G7000131	118,030		
73381-0037	L6 C4, S1/2	Graham	65.35	MSR	GCC	G7000130	133,527		
73381-0040	L4 C4, S1/2	Graham	64.74	MSR	GCC	G7000134	6,934		
73381-0041	L3 C5, S1/2	Graham	64.95	MSR	GCC	G7000125	1,050		
73381-0043	L1 C4, N1/2 of N1/2	Graham	32.37	MSR	GCC	G7000122	9,211		
73381-0044	L3 C4, N1/2	Graham	64.34	MSR	GCC	G7000126	5,901		

73381-0057	L2 C4, S1/2 N1/2; L2 C4, N1/2 of S1/2	Graham	64.74	MSR	GCC	G7000127	5,715
73381-0058	L4 C4, N1/2	Graham	64.74	MSR	GCC		4,121
73381-0060	L5 C4, S1/2 of S1/2	Graham	32.37	MSR	GCC		5,122

Mining Lease:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73380-0282	L11 C3 part	Graham	115.46	MSR	GCC	1-Nov-2018		107102	
73380-0283	L9 C3, N1/2 of S1/2	Graham	32.46	MSR	GCC	1-Nov-2018	G70100021	107104	1,353
73380-0284	L10 C3	Graham	130.24	MRO	GCC	1-Nov-2018	G70100007	107107	23,504
73380-0286	L9 C4, N1/2	Graham	65.12	MSR	GCC	1-Nov-2019	G7000129	107199	11,741

Table 32: Frost Lake Property Claim Status

Mining Claims:

Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
985284	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985293	Norman	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985294	Norman	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985301	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985302	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	1,532
985303	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	2,988
985304	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	5,717
985305	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	2,251
985306	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	1,400
985307	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	1,575
985309	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	0
985310	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	1,138
985311	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	875
985382	MacLennan	16	1	GCC	21-Jul-1987	21-Jul-2019	A	400	0
985387	MacLennan	16	1	GCC	21-Jul-1987	21-Jul-2019	A	400	0
985391	MacLennan	16	1	GCC	21-Jul-1987	21-Jul-2019	A	400	0
985394	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985395	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985396	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985399	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985400	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985405	MacLennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985419	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	260

985420	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	172
985421	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	0
985422	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	0
985423	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	0
985424	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	0
985425	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	0
985426	Capreol	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	175
985428	Norman	16	1	GCC	16-Jul-1987	16-Jul-2019	A	400	175
985500	Maclennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985501	Maclennan	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	0
985503	Norman	16	1	GCC	24-Aug-1987	24-Aug-2019	A	400	2,050
985504	Norman	16	1	GCC	24-Aug-1987	24-Aug-2019	A	400	788
985505	Norman	16	1	GCC	24-Aug-1987	24-Aug-2019	A	400	263
985506	Norman	16	1	GCC	24-Aug-1987	24-Aug-2019	A	400	612
985507	Norman	16	1	GCC	24-Aug-1987	24-Aug-2019	A	400	0
985508	Norman	16	1	GCC	24-Aug-1987	24-Aug-2019	A	400	0
985510	Norman	16	1	GCC	31-Jul-1987	31-Jul-2019	A	400	525
1230089	Maclennan	96	6	GCC	27-Apr-1999	27-Apr-2019	A	4,989	0
1244364	Maclennan	224	14	WMCL	28-Jul-2000	28-Jul-2019	A	5,600	0
1244365	Maclennan	224	14	WMCL	28-Jul-2000	28-Jul-2019	A	38,544	0
1244366	Maclennan	224	14	WMCL	28-Jul-2000	28-Jul-2019	A	20,394	0
1244398	Norman	48	3	WMCL	11-Aug-2000	11-Aug-2019	A	1,200	0
3004881	Capreol	0.5	1	WMCL	24-Aug-2007	24-Aug-2019	A	400	0

Mining License of Occupation (LO):

Tenure Number	Description	Township	Area (ha)	Rights Held	Holder	Work (\$) Reserve
LO12937	lands under water of fmr claim S562319 to S62324 incl. (6)	Capreol	12.14	MRO	GCC	0
LO12938	lands under water of fmr claim S86441 to S86444 incl. (4)	Capreol	8.09	MRO	GCC	0
LO13060	lands under water of WR24, (S84431 & S84432)	Capreol	12.14	MRO	GCC	0

Mining Patent:

PIN #	Description	Township	Area (ha)	Rights Held	Holder	Parcel #	Disposition Number	Work (\$) Reserve
73510-0075	S562319 to S62324 incl. (6)	Capreol	71.60	MSR	GCC	24083 SES	G7000146	1,470,865
73510-0076	S86441 to S86444 incl. (4)	Capreol	49.76	MSR	GCC	24055 SES	G7000147	353,547
73510-0107	S84427 to S84430 incl (4)	Capreol	76.88	MSR	GCC	25510 SES	G7000145	416,434
73510-0108	WR24 (S84431, S84432)	Capreol	30.70	MSR	GCC	25508 SES	G7070145	97,079
73510-0187	S29313	Capreol	4.49	MSR	GCC	9494 SES		0

Table 33: Victor Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1244399	MacLennan	256	16	WMCL	28-Jul-2000	28-Jul-2019	A	6,400	36,713

Table 34: Drill Lake Property Claim Status

Mining Claims:									
Claim Number	Township	Area (ha)	Units	Holder	Recorded Date	Work Due Date	Status	Work (\$) Required	Work (\$) Reserve
1231008	MacLennan	64	4	WMCL	05-Jul-1999	05-Jul-2019	A	1,600	10,242

Table 35: Capreol JV Property Claim Status

Mining Lease:									
PIN #	Description	Township	Area (ha)	Rights Held	Holder	Renewal Date	Disposition Number	Lease Number	Work (\$) Reserve
73510-0261	S1246174 pt 1, plan 53R-19179	Capreol	3.72	MSR	WMCL, XCC, VALE	30-Apr-2031	G70100086	108500	122,900

3 - Accessibility and Physiography

All Wallbridge properties included in this report are located near the City of Greater Sudbury, Ontario. The properties are accessible by a combination of primary and secondary paved roads, gravel-topped roads, logging roads, ATV trails, and lastly on foot.

Local terrain is composed primarily of Archean rocks that provide rolling hills, which are typically elongated in a NW direction. The LiDAR survey areas consist of high, rolling granitic hills with thin birch and pine tree coverage all the way to the other spectrum of marshy lowlands and foliage that are primarily thick coniferous being composed of black spruce and jack pine. Overburden tends to be thickest in the valleys which are home to alders and deciduous trees. Locally an abundance of water can be found in the marshy swamps and numerous streams, and would be adequate for exploration purposes.

Snowfall generally begins in November and extends into late March, early April. Lakes are usually passable with adequate ice thickness from late December through to mid-March. Between 45 and 100 mm of monthly rainfall is normal from April to October. The mean temperature is -13.6°C in January and 19°C in July.

The topography of the area is typical of the Canadian Shield. It is a highly dissected plateau sloping gently southward toward Lake Huron. The property is moderately variable with more gradual elevation changes up to 40m on sloped hills mainly around lakes and swamps. The area has a wide range of vegetation ranging from jack pine flats which occur in moss carpeted bogs to mixed poplar and birch stands. Most of the area has been logged with secondary growth now taking over.

Bedrock exposure is regionally prevalent, with numerous large ridges of higher density exposure consisting mainly granitoids with the intrusive later dykes being located in lower lying areas of the property.

4 - Exploration Program

The 2015 airborne LiDAR (thought by some to be an acronym of Light Detection And Ranging, the term LiDAR was actually created as a portmanteau of Light and RADAR) exploration program encompassed nearly all Wallbridge Mining Limited properties surrounding the Sudbury Basin totalling \$94,355 and flown between April 29th and May 2nd, 2015 by Perron Hudon Belanger Inc (PHB) of Grande-Cote Quebec, Canada. The total amount claimable by this assessment report is \$86,724.

Given that the properties are spread out around the Sudbury Basin, it was necessary that the survey lines be flown continuously between properties. Therefore, the area covered by the northeast-southwest flight lines is larger than the area of the Wallbridge Mining Limited properties (Figure 1).

LiDAR is a remote sensing technology that measures distance by illuminating a target with a laser and analyzing the reflected light. LiDAR is popularly used as a technology to make high-resolution maps and contour mapping. LiDAR uses ultraviolet, visible, or near infrared light to image objects. It can target a wide range of materials, including non-metallic objects, rocks, rain, chemical compounds, aerosols, clouds and even single molecules. A narrow laser-beam can map physical features with very high resolutions; for example, an aircraft can map terrain contours at 30 cm resolution or better.

The aim of the 2015 LiDAR survey was to extract detailed topographic data on all Wallbridge Mining properties. Detailed lineament studies of the LiDAR data are currently underway in an attempt to discern areas that have the potential to host previously unknown quartz diorite (QD) offset dykes related to the

Sudbury impact event. The deliverable survey report from the contractor is found in Appendix B. The LiDAR property contour maps are found in Figures 2 to 11, while the large compiled LiDAR contour maps can be found in Appendix A.

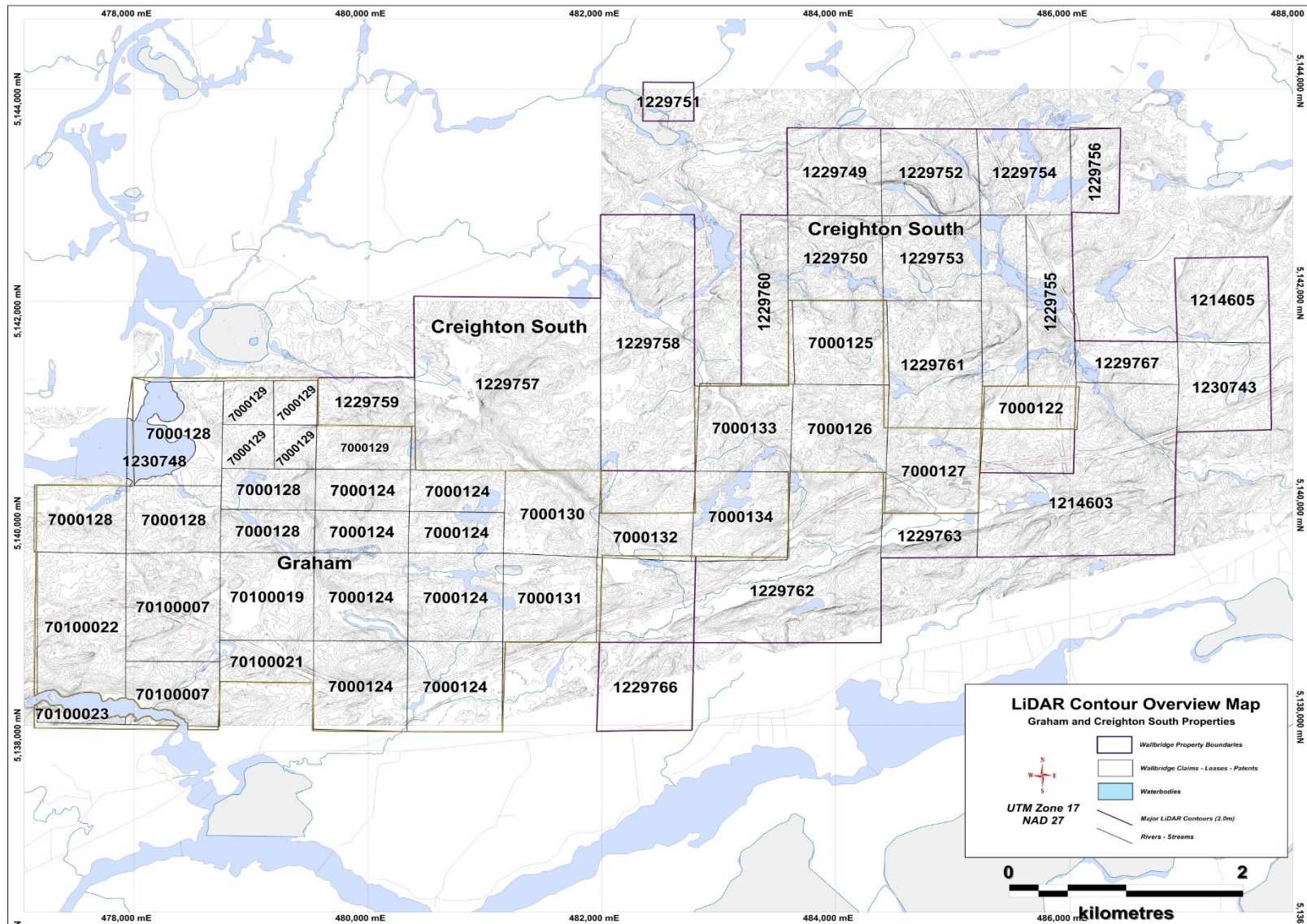


Figure 2: LiDAR Contour Map of the Creighton South and Graham Properties.

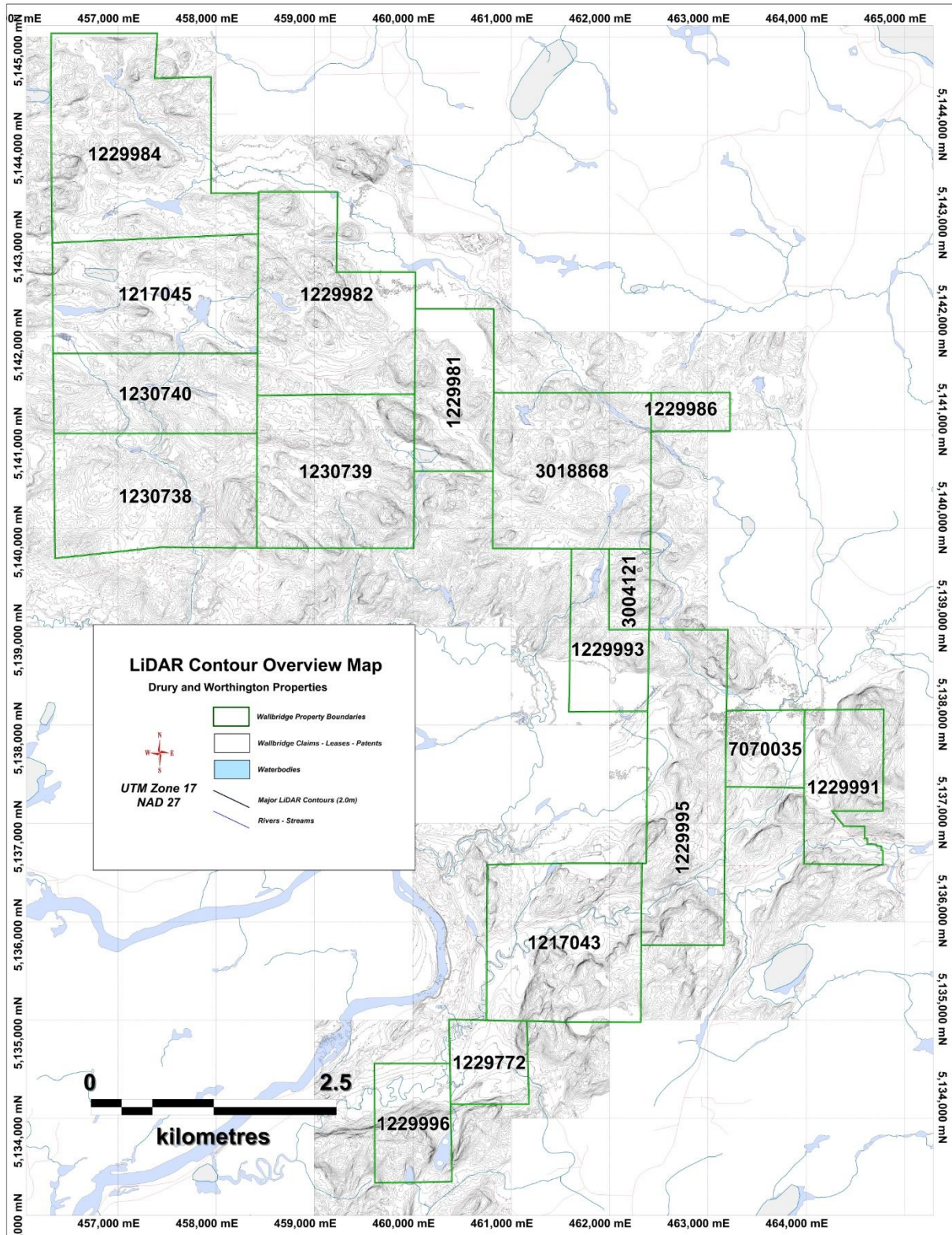


Figure 3: LiDAR Contour Map of the Drury and Worthington Properties

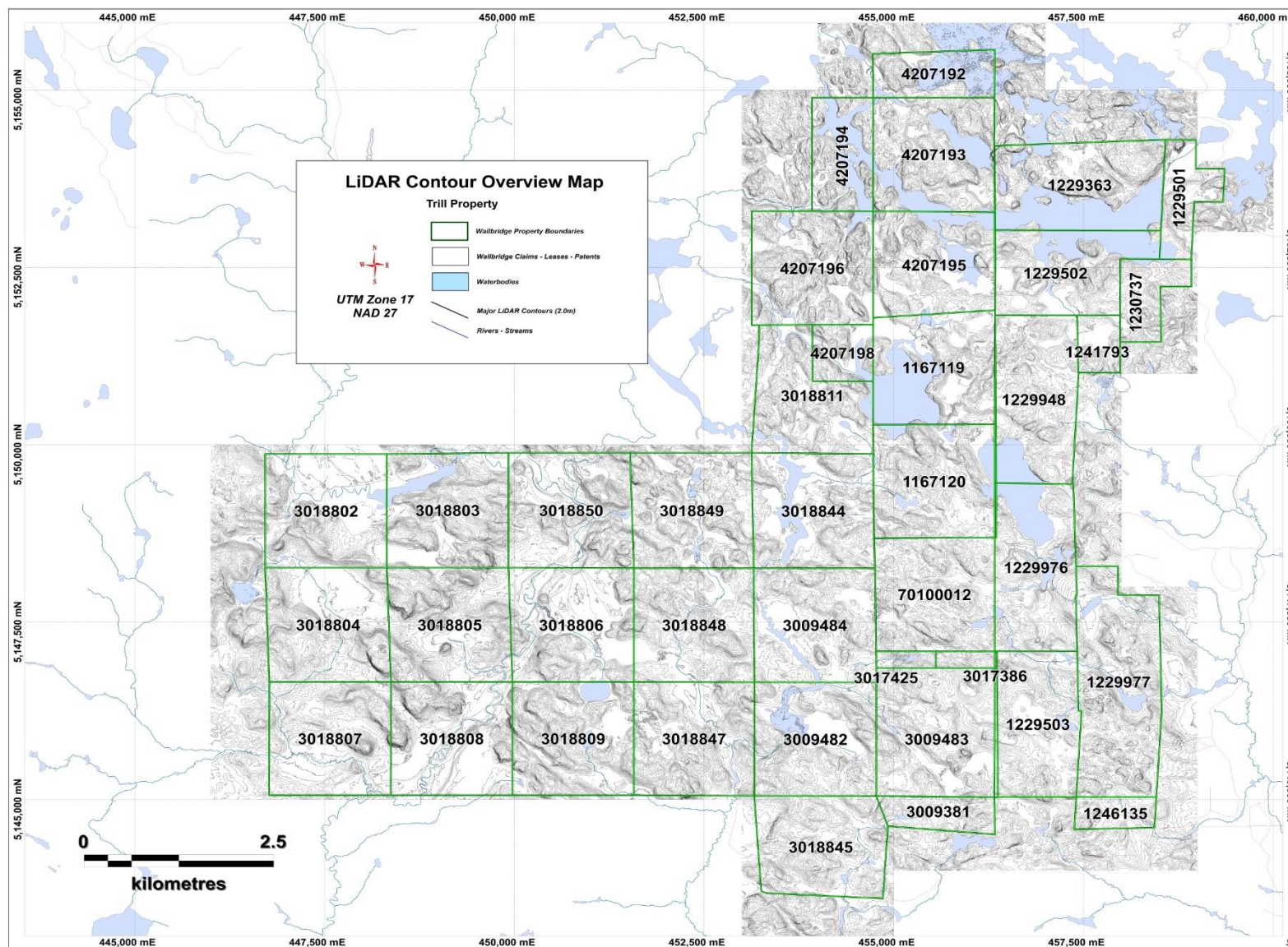


Figure 4: LiDAR Contour Map of the Trill Property.

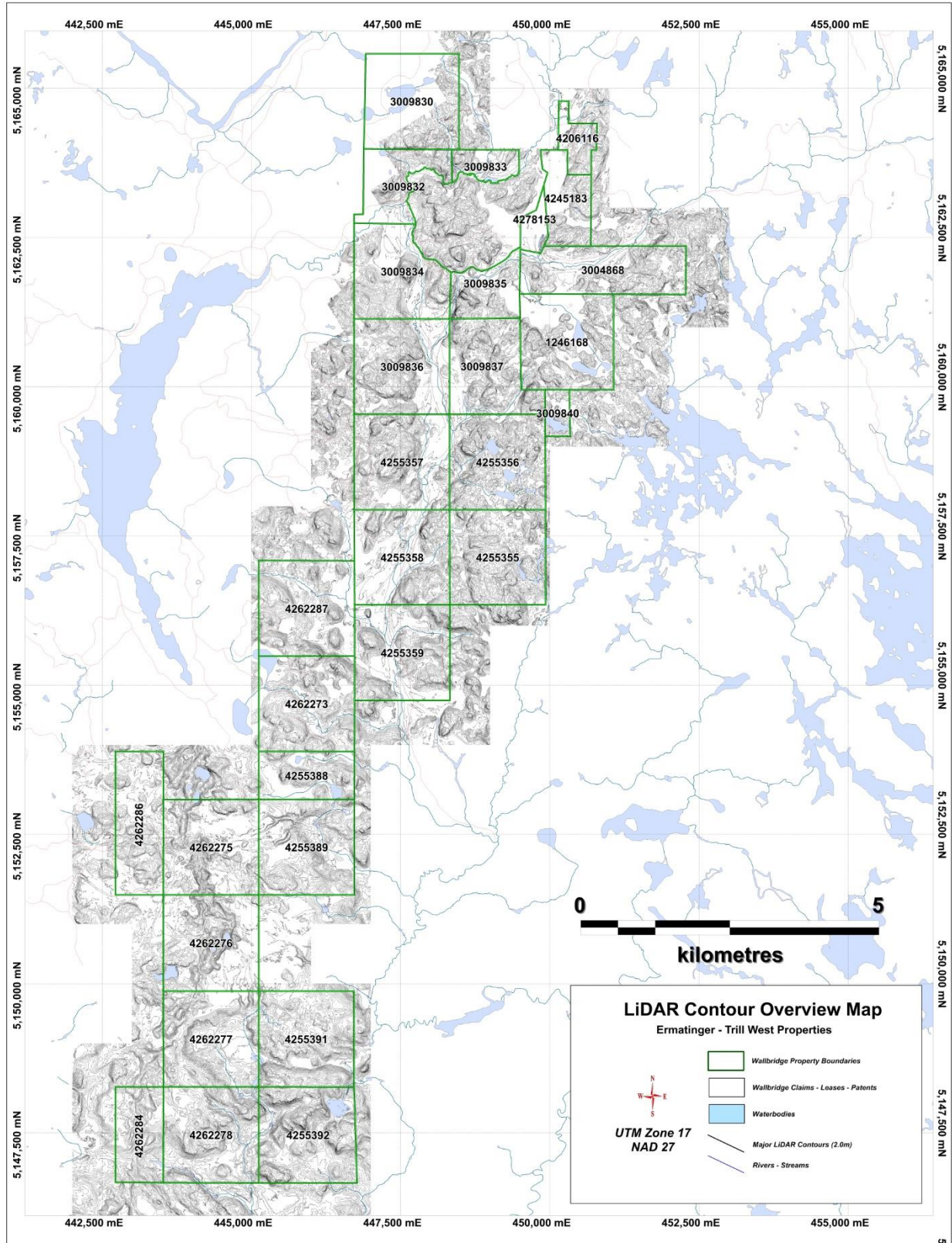


Figure 5: LiDAR Contour Map of the Ermatinger and Trill West Properties.

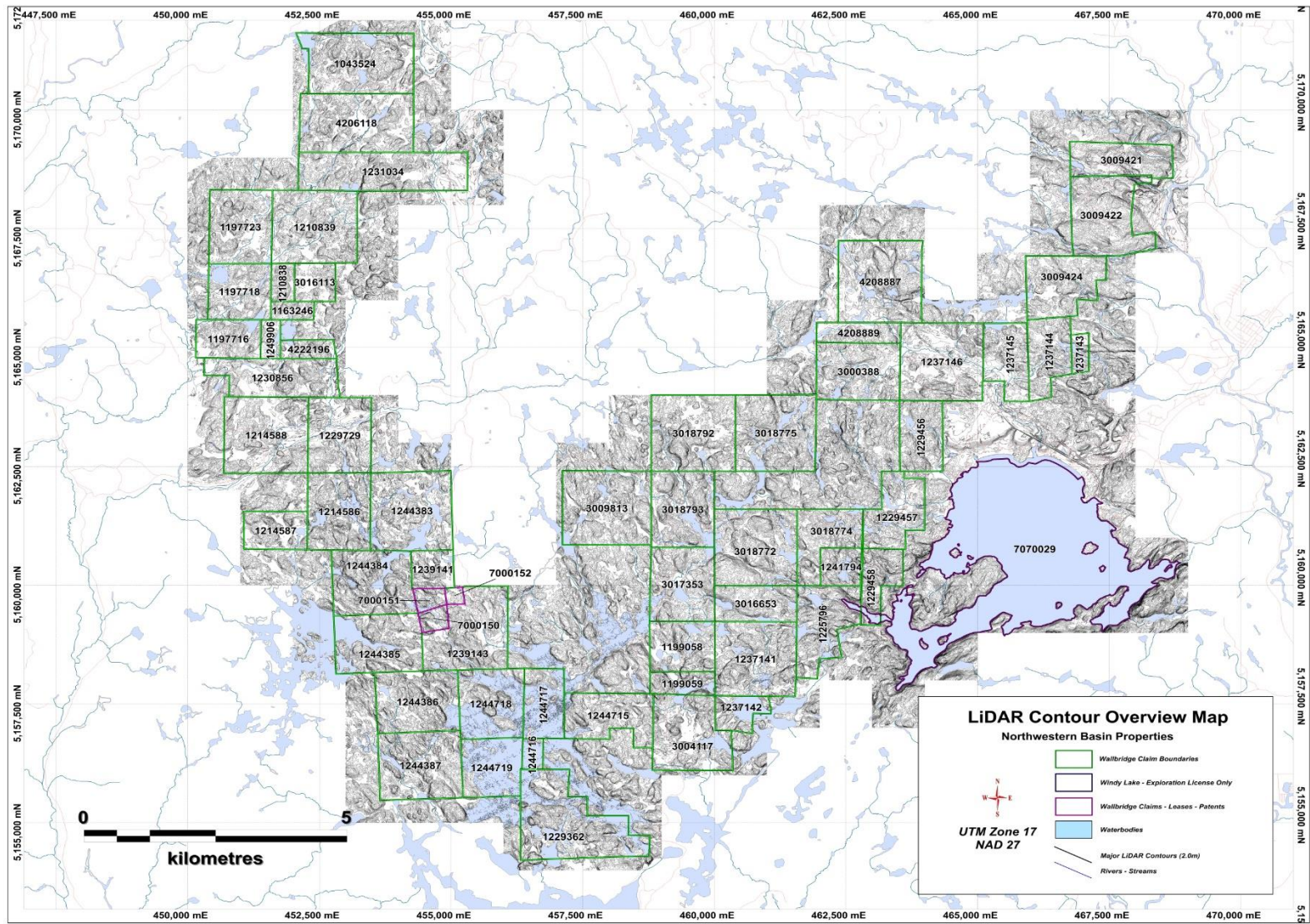


Figure 6: LiDAR Contour Map of the Windy Lake, Ministic Lake, Ermatinger CBA, Iron Mask, Cascaden and Cascaden North Properties.

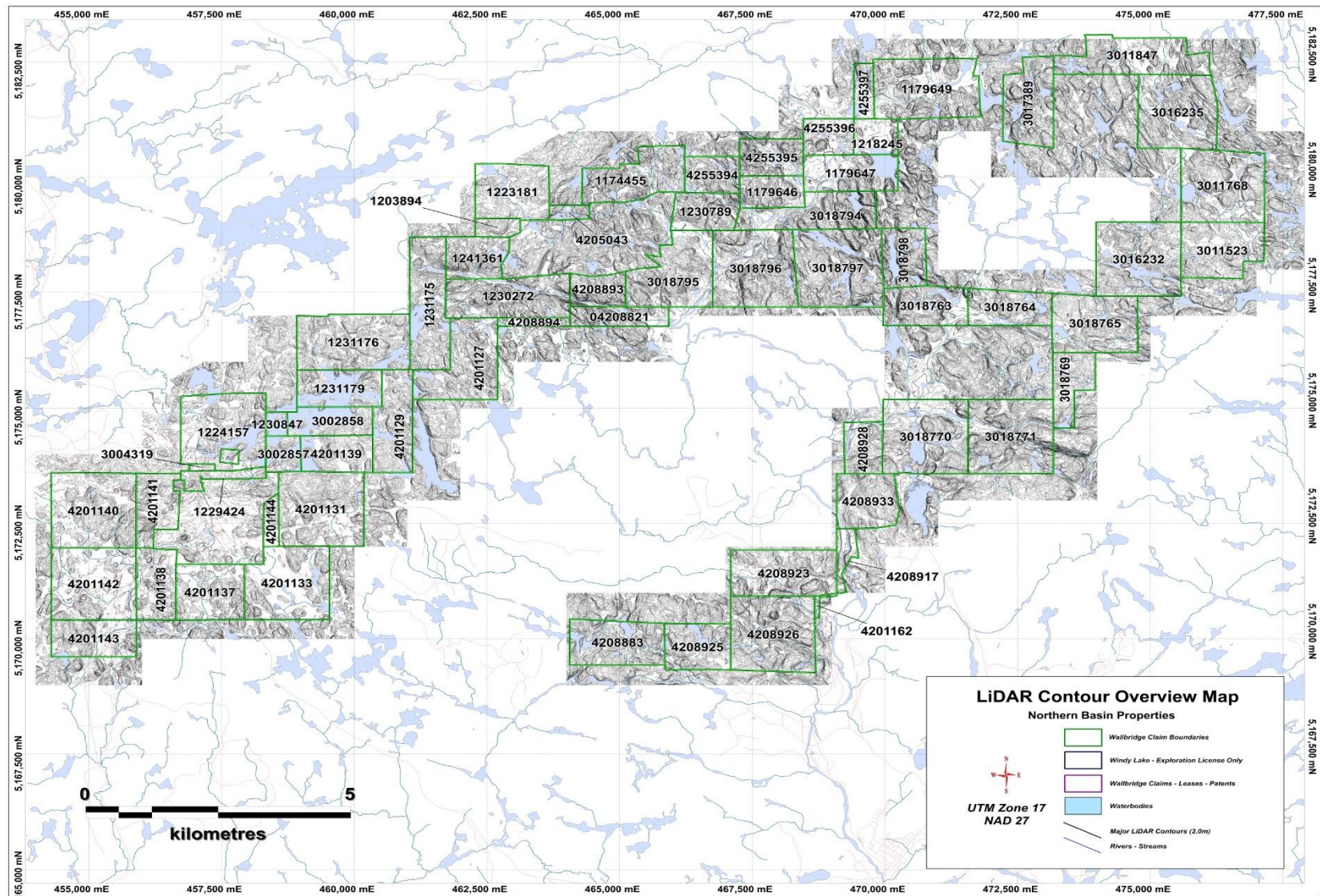


Figure 7: LiDAR Contour Map of the Hess, Cartier, Ruza Levack, Harty, Foy North, and Pele Properties.

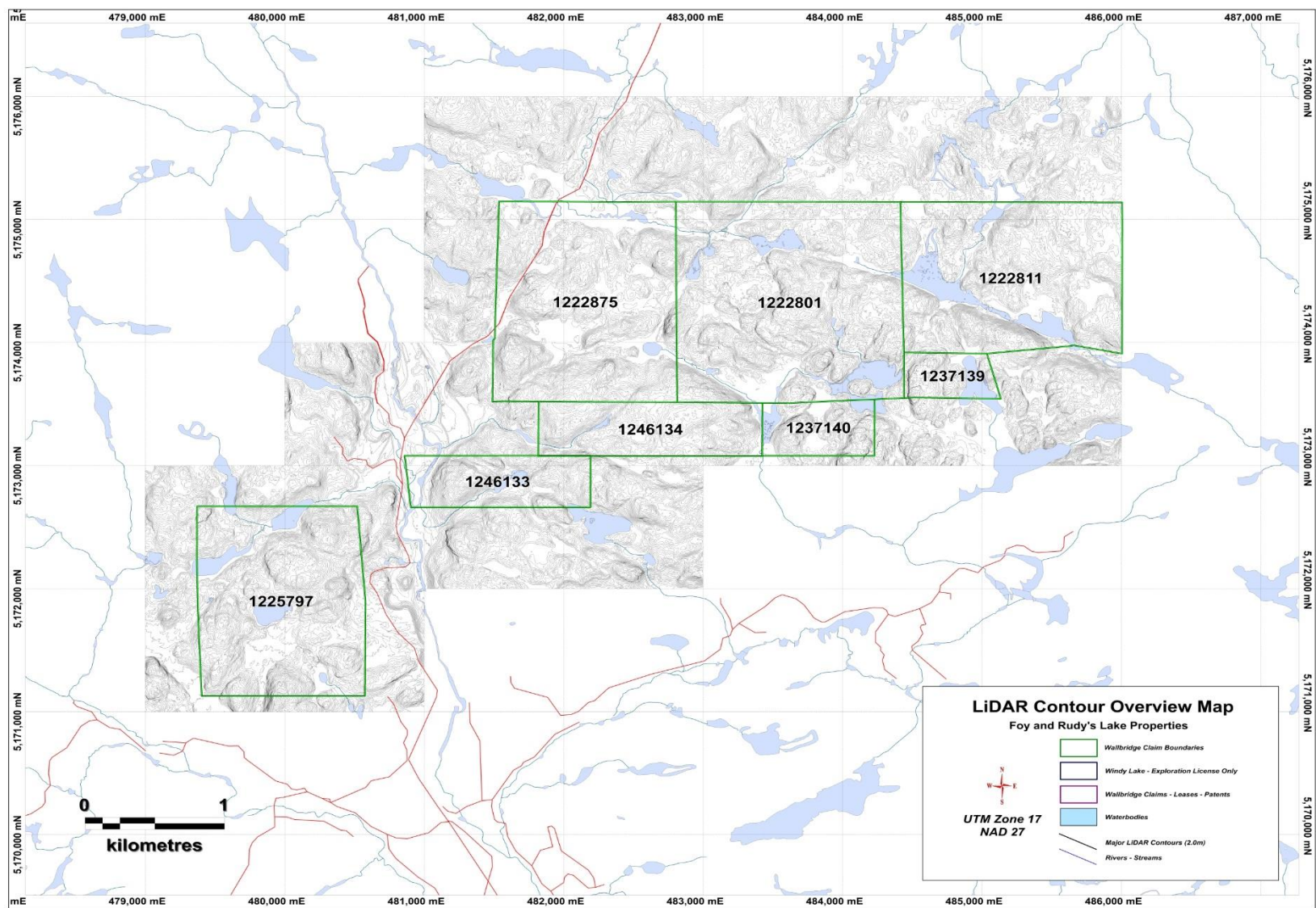


Figure 8: LiDAR Contour Map of the Foy and Rudy's Lake Properties.

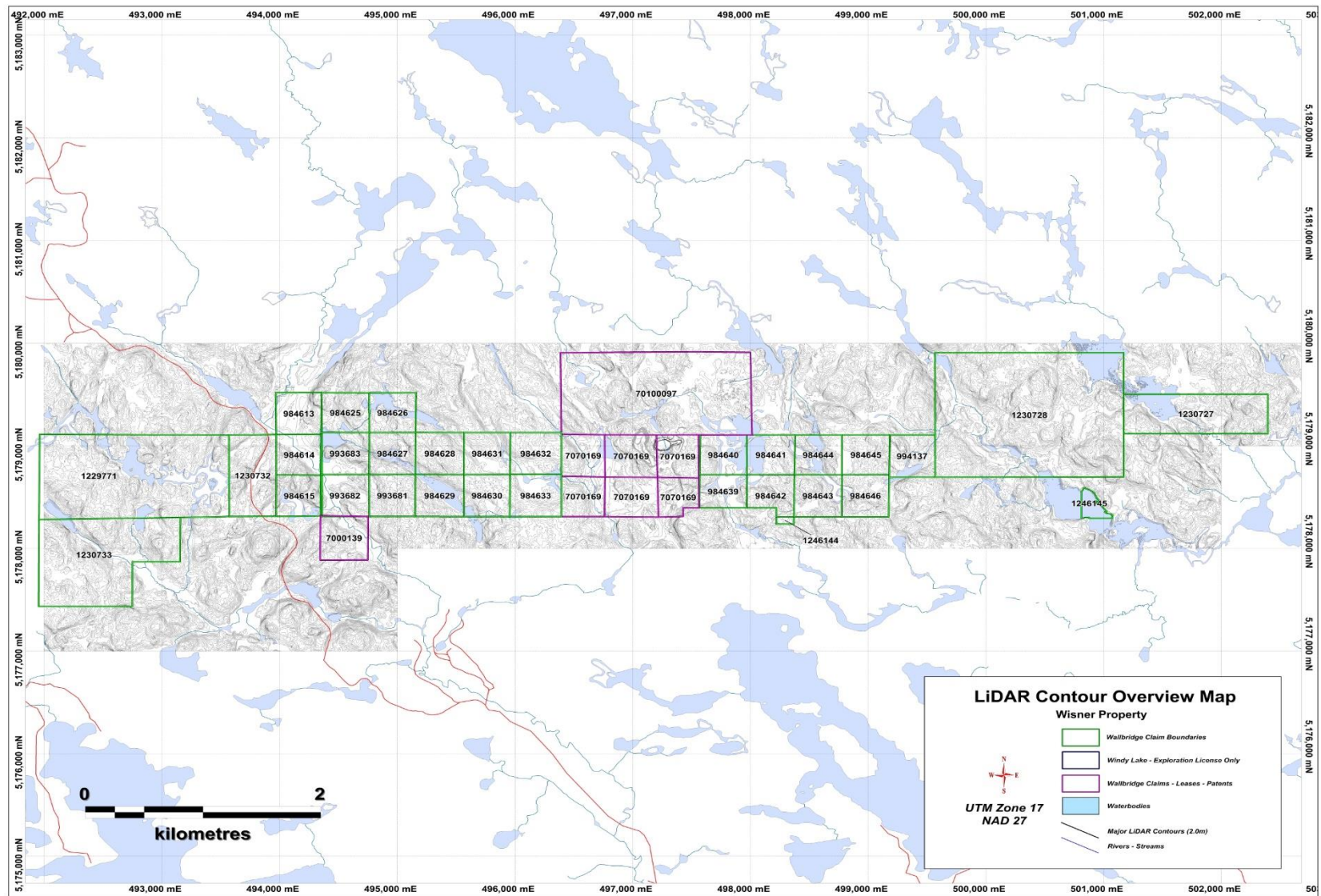


Figure 9: LiDAR Contour Map of the Wisner Property.

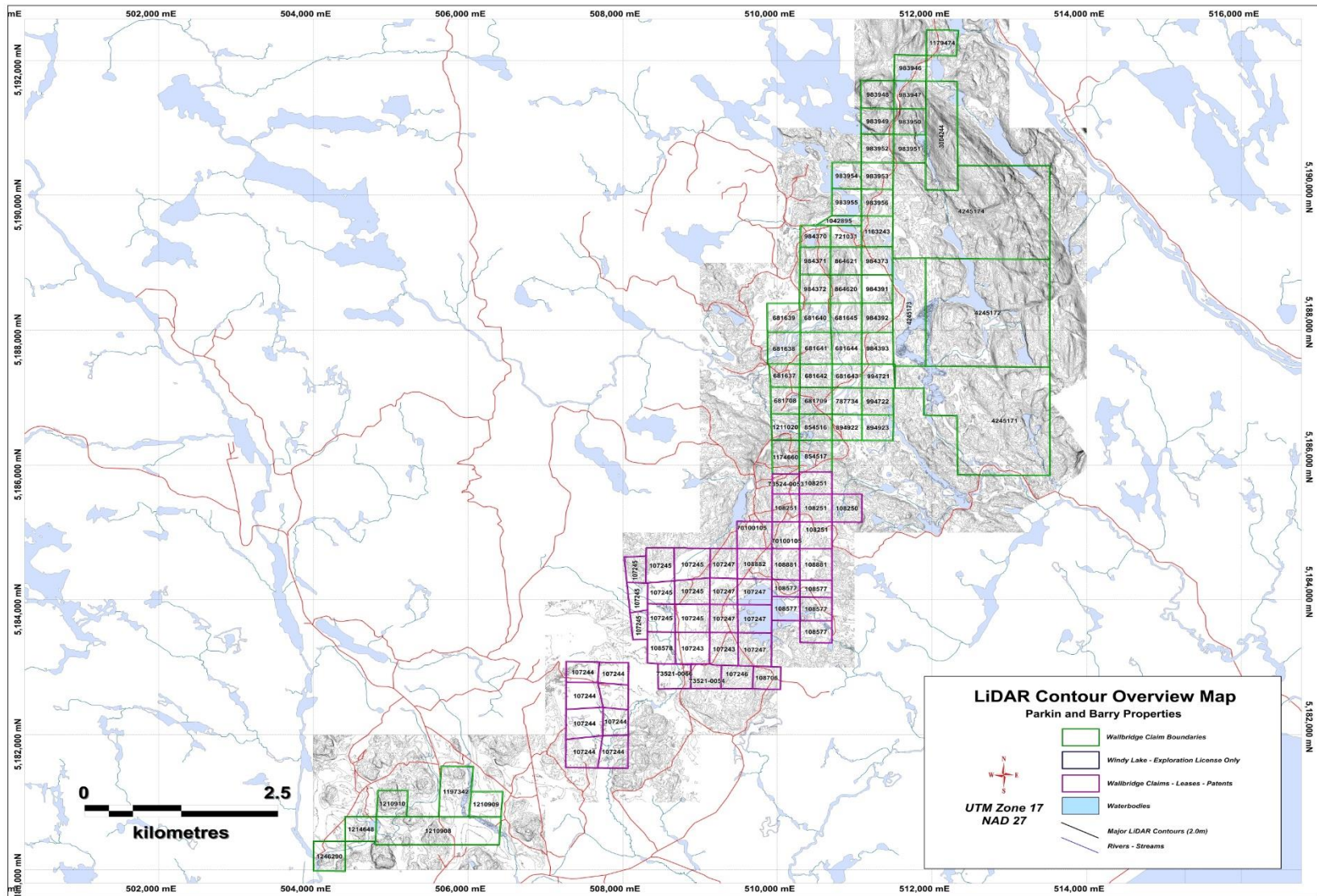


Figure 10: LiDAR Contour Map of the Parkin and Barry Properties.

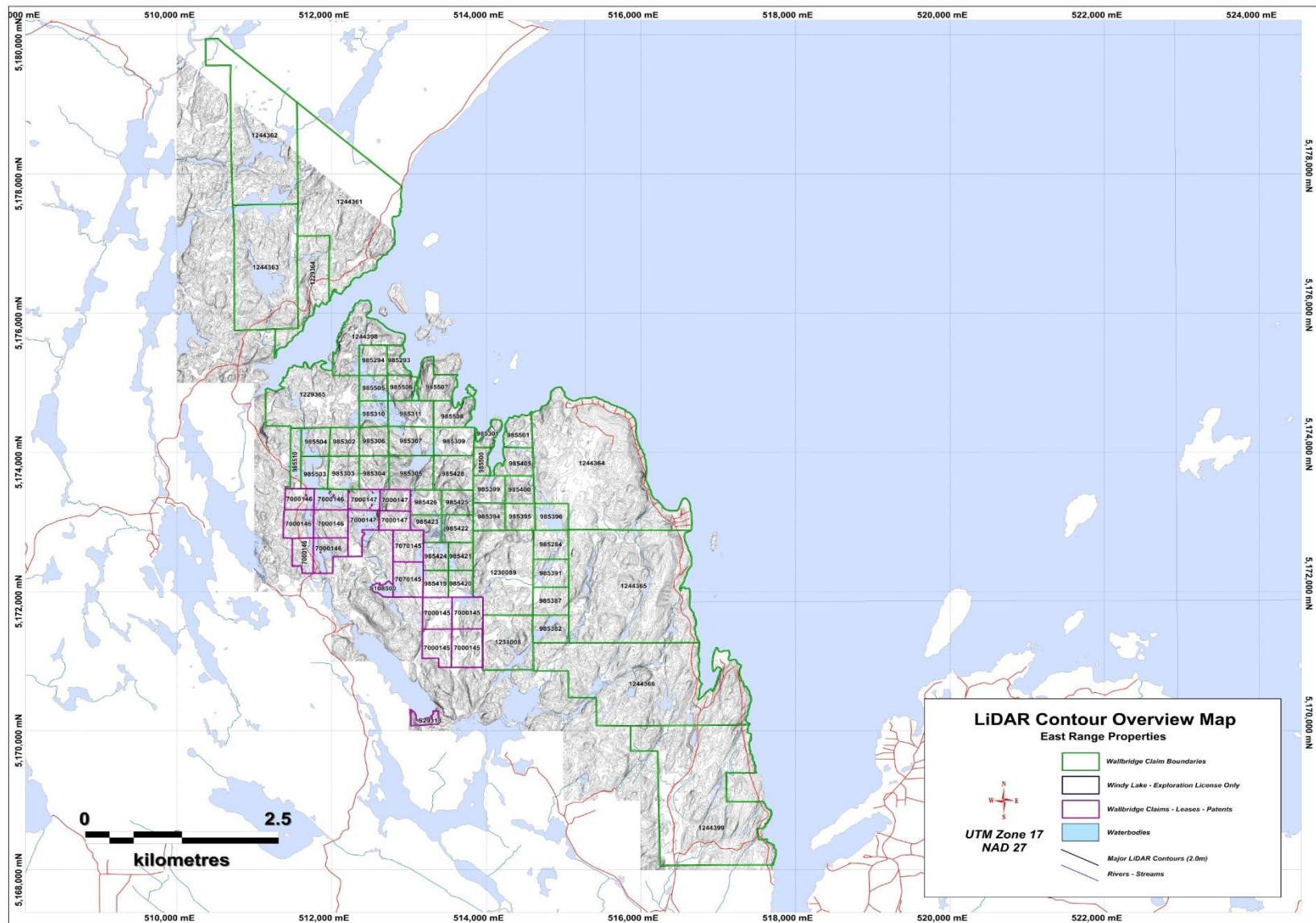


Figure 11: LiDAR Contour Map of the Frost, Skynner, Drill Lake, Victor, and Capreol Properties.

5 - Regional Geologic Setting

The Sudbury area hosts one of the most prolific Ni-Cu-PGE mining camps in the world. Sudbury geology is unique – the ore deposits are associated with the Sudbury Igneous Complex (SIC) and related rocks, which record what is generally accepted as a major, mid- Proterozoic meteorite impact event which occurred 1.85 billion years ago (Ga). Despite over one hundred years of academic and industry scrutiny, many aspects of Sudbury ore deposit geology are still disputed and significant new discoveries continue to be made.

Current exploration focuses on the SIC and related footwall rocks. The Sudbury Structure is located at the junction of the Superior and Southern Provinces of the Canadian Shield. The Superior Province is of Archean age, about 2.7 Ga in the Sudbury area. Paleoproterozoic sedimentary and volcanic rocks of the Huronian Supergroup were deposited unconformably on Archean basement in an elongate belt and were subsequently intruded by sill-like Nipissing gabbros. After metamorphism and folding during the Penokean Orogeny, this belt formed the Southern Province along the southern margin of the Superior Province. At ~ 1.85 Ga, the SIC was superimposed on Archean and Huronian rocks. The SIC is located about 10 km north of the ~1 Ga Grenville Front

The SIC straddles an unconformity between gneisses and granitoid plutons of the Archean Superior Province and overlying Huronian supracrustal rocks of the Paleoproterozoic Southern Province. It is geographically divided into the North, South, and East Ranges. It defines what is now considered as a deformed, deeply eroded, melt- and sediment-filled meteorite impact crater (the Sudbury Basin) and its surrounding brecciated target rocks. The oval-shaped crater remnant has dimensions of 60 km in a northeast direction and 27 km in a northwest direction. The brecciated footwall rocks of the SIC extend for 70 to 80 kilometers beyond the crater remnant. All pre-SIC rocks are cut by varying quantities of Sudbury Breccia.

Sudbury Breccia consists of rounded and milled, millimeter to hundred meter sized fragments of country rock within a fine-grained, variably cataclastic to igneous (recrystallized) matrix. Small veinlets of Sudbury Breccia occur throughout nearly every earlier lithology in the footwall environment. Generally, it is only distinguished as a distinct, lithological unit when the Sudbury Breccia matrix accounts for greater than 15 volume percent of the rock. Concentrations of Sudbury Breccia often occur along pre-existing structures

and weaknesses in the Archean and Paleoproterozoic footwall rocks; such as along the contact between rock types of contrasting competencies. It is commonly found along the margins of diabase dykes. Trace pyrite is common within the Sudbury Breccia matrix, particularly when it occurs in the surrounding rocks and dominant fragment types. Background precious metal concentrations in Sudbury Breccia are typically below the limits of detection for standard assay or ICP analysis.

The crater fill consists of the Sudbury Igneous Complex (SIC), and sedimentary rocks of the Whitewater Group.

The SIC consists of a discontinuous, variably mineralized, basal Sublayer unit lying along the crater wall, Offset dykes intruded for up to tens of kilometers into the underlying brecciated country rocks, and the overlying so-called Main Mass units of Mafic Norite, Felsic Norite, Quartz Gabbro and Granophyre. The formation of the SIC as a superheated meteorite impact melt sheet that was heavily contaminated by crustal rocks is strongly supported by contemporary research although other theories have been postulated in the past. At its base, the SIC intrudes brecciated rocks of the crater wall. At its top, the SIC intrudes the Onaping Formation of the Whitewater Group.

The Whitewater Group consists, from bottom to top, of the Onaping, Onwatin, and Chelmsford Formations. The Onaping Formation is a poorly stratified 1600 m thick unit of breccia, interpreted as fallback breccia following the impact event. The Onwatin Formation is several hundred meters thick and has been interpreted as a deepwater, black, graphitic slate. The uppermost formation, the Chelmsford, is a shallow water turbidite. No Whitewater Group sedimentary rocks have been found beyond the Sudbury Structure.

6 - Property Geology

Most of the surveyed Wallbridge properties surround the contact and footwall of the Sudbury Basin from the southwest wrapping clockwise all the way around to the east range of the Sudbury Structure, mostly within a maximum of 15 kilometers of the SIC contact.

The footwall area is variable depending on location but is mostly dominated by the Archean Cartier Batholith and Levack Gneiss in the west and north, which, in this area, consists dominantly of weakly foliated to gneissic granodiorite to granite (~2640 Ma – 2700 Ma). The East Range and southwest

consist of volcanic and sedimentary sequences of the Benny Greenstone Belt and Huronian Supergroup (2470-2450 Ma). Paleoproterozoic Matachewan diabase dykes (2473 \pm 16/-9 Ma and 2446 \pm 3 Ma; Heaman, 1997), Nipissing mafic intrusive suite (2210-2217 Ma; Corfu and Andrews, 1986; Noble and Lightfoot, 1992; Buchan et al., 1998) cross-cut the properties.

Post-SIC Sudbury Olivine Diabase dykes also traverse the properties with a northwest-southeast trend. These diabase dykes, consist of plagioclase, pyroxene, and opaque oxides (magnetite and ilmenite), can have 0.1 – 1% sulfide (dominantly pyrite, but can also have trace chalcopyrite), and where visible, have chilled margins. The olivine diabase dykes are equigranular, medium- to coarse-grained, are comprised of the same minerals as the other dykes and generally contain olivine. These dykes can be strongly altered (are rusty brown to mottled grey on weathered surfaces compared to fresh surfaces that are reddish brown to unaltered light grey), and typically have a moderate magnetism. The area is dominated by strongly deformed, amphibolite facies, neo- to meso-archean (2.5 to 3.4 Ga) massive foliated granodiorite to granite, with local Paleoproterozoic Matachewan diabase dyke segments (2473 \pm 16/-9 Ma and 2446 \pm 3 Ma; Heaman, 1997) cutting the granites.

Sudbury Breccia, a pseudotachylite created from the shock wave associated with the 1850 Ma Sudbury Event, occurs as irregular veins and belts in the footwall rocks of the SIC.

Lithology Descriptions

Granodiorite to Granite

Early Felsic plutonic Archean rocks of the Levack Gneiss Complex are the most abundant lithology outcropping in the area. These metamorphic rocks contain locally strong foliation with variable orientations and homogenous nature.

Matachewan Diabase

Mafic dikes, found intermittently throughout the area, exhibit fine- to coarse-grained plagioclase phenocrysts, indicative to the Matachewan Diabase dike swarm. These rocks are typically weakly magnetic, fine-grained, and contain trace disseminated pyrite. Inferred strike of dikes, based on local contact relationships, is roughly NE-SW.

Nipissing Diabase

Mafic dikes, found throughout the area, exhibit fine- to coarse-grained habit with fine plagioclase. These rocks are typically weakly magnetic, fine-grained, and contain trace disseminated pyrite. The dikes trend in various directions and are most likely feeder systems for the larger gabbroic bodies in the area.

Sudbury Breccia

Sudbury Breccia is present in minute quantities usually along a Diabase/granite and/or QD contact. The breccia normally contains clasts of the host rocks, usually granite and diabase which are centimeter- to meter-sized. The clasts are supported in a fine-grained green matrix with concoidal fracturing habit. The unit is formed during the tectonic restructuring and pulverizing of the local rocks during and after impact.

Quartz Diorite

Quartz Diorite (QD) dykes, which may be radiating or concentric around the contact of the SIC. Radiating dykes originate from embayment structures and may extend over 30 km into the footwall (e.g. Foy Offset Dyke). The relationship of concentric dykes to the so-called Main Mass of the SIC is uncertain.

Inclusion Quartz Diorite

Inclusion Quartz Diorite (IQD) dykes, which may be radiating or concentric around the contact of the SIC. Radiating dykes originate from embayment structures and may extend over 30 km into the footwall (e.g. Foy Offset Dyke). The relationship of concentric dykes to the so-called Main Mass of the SIC is uncertain.

7 - Structures

The main structures on the properties are variable and mainly follow the regional regimes at approximately NNW-SSE, NNE-SSW and WSW-ENE. N-S trending cliff faces in the area are likely the result of normal faulting. Locally, geological contacts between mafic intrusions, dykes and the granites/gneisses are present and typically trend NW-SE but also NE-SW. Maps of several Wallbridge Mining Limited properties (Wisner, Worthington, and Trill) showing structures interpreted from LiDAR data are presented in Figure 12, Figure 13, and Figure 14 and Appendix - D. Short, closely spaced, and discontinuous structures are interpreted to reflect the regional foliation and jointing whereas the longer, broadly spaced, and continuous structures are interpreted to reflect faults and lithological contacts.

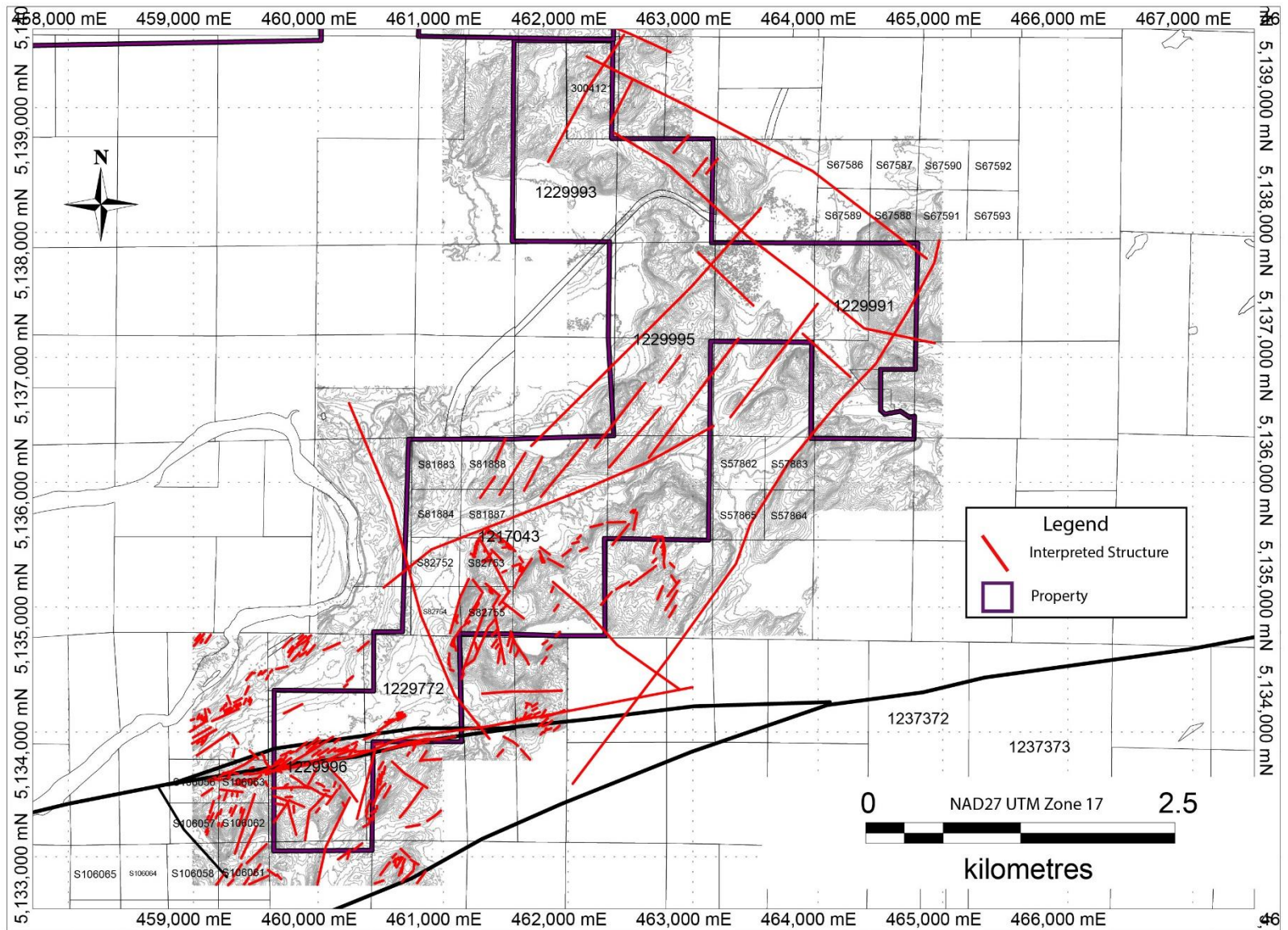


Figure 13. Map of the Worthington Property showing structures that have been interpreted from the LiDAR data.

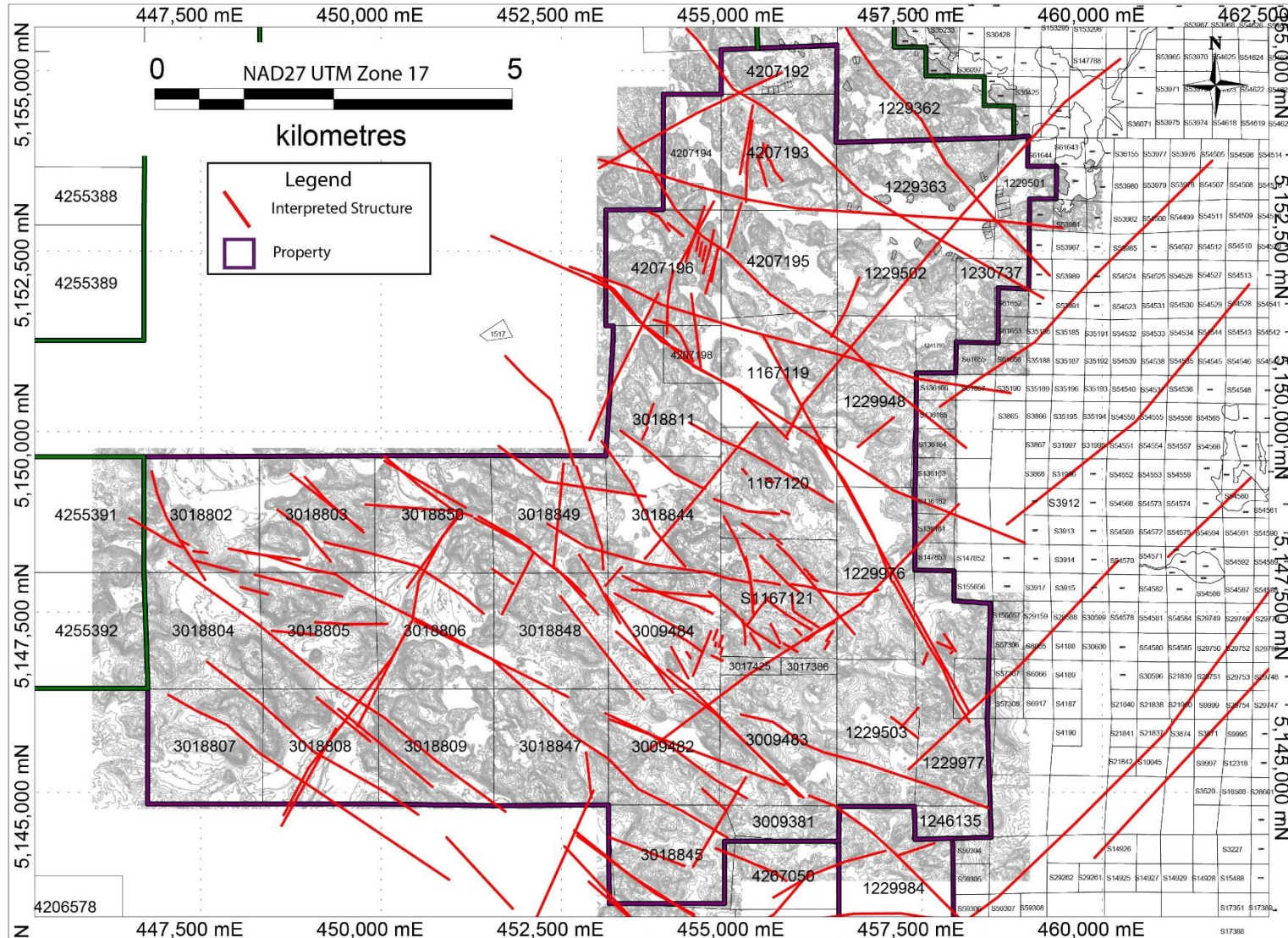


Figure 14. Map of the Trill Property showing structures that have been interpreted from the LiDAR data.

8 - References

Ames, D.E., Buckle, J., Davidson, A., and Card, K., 2005, Sudbury bedrock compilation: Geological Survey of Canada, Open File No. 4570, geology, color map, and digital tables, scale 1:50,000.

Heaman, L.M., 1997, Global mafic magmatism at 2.45 Ga: remnants of an ancient large igneous province?: *Geology*, v. 25, p. 299–302.

Krogh, T.E., Davis, D.W., and Corfu, F., 1984, Precise U-Pb zircon and baddeleyite ages for the Sudbury Area: Ontario Geological Survey Special Volume 1, p. 431–446.

9 - Qualifications

I, Shannon Baird, do hereby certify that:

1. I reside at 116 Fourth Avenue, Sudbury, Ontario, Canada, P3B-3R8.
2. I graduated from Laurentian University (Sudbury, Ontario) in 2007 with a B.Sc. in Geology and in 2011 with a M.Sc. in Economic Geology and have been practicing my profession since 2005.
3. I am currently employed as a Project Geologist with Wallbridge Mining Company Limited and Exploration Manager of Carube Copper Corp.
4. I am a current practicing registered professional geoscientist with APEGBC (registration #35744) as well as a registered, non-practicing member of APGO (registration #1953).
5. This technical report has been prepared by myself and other members of Wallbridge staff.
6. As an employee, and an insider, of Wallbridge Mining Company, I do not qualify as an independent Qualified Person.



Shannon Baird, M.Sc., P.Geo

APGO #1953 – APEGBC #35744

Wallbridge Mining Company Ltd.

129 Fielding Rd.

Lively, ON, P3Y 1L7

Appendix A: Maps

Figures 1-11 are included in the Report.

Appendix B: LiDAR Report

PHB

ARPENTEURS-GÉOMÈTRES

Arpentage

Gestion de projets agricoles

Glissements de terrain

Projets miniers Erosion des sols

Infrastructures routières et pipeline

Zones à risque d'inondations

Complexe hydro-électrique

Études environnementales

Réseaux de lignes électriques

Foresterie et gestion forestière

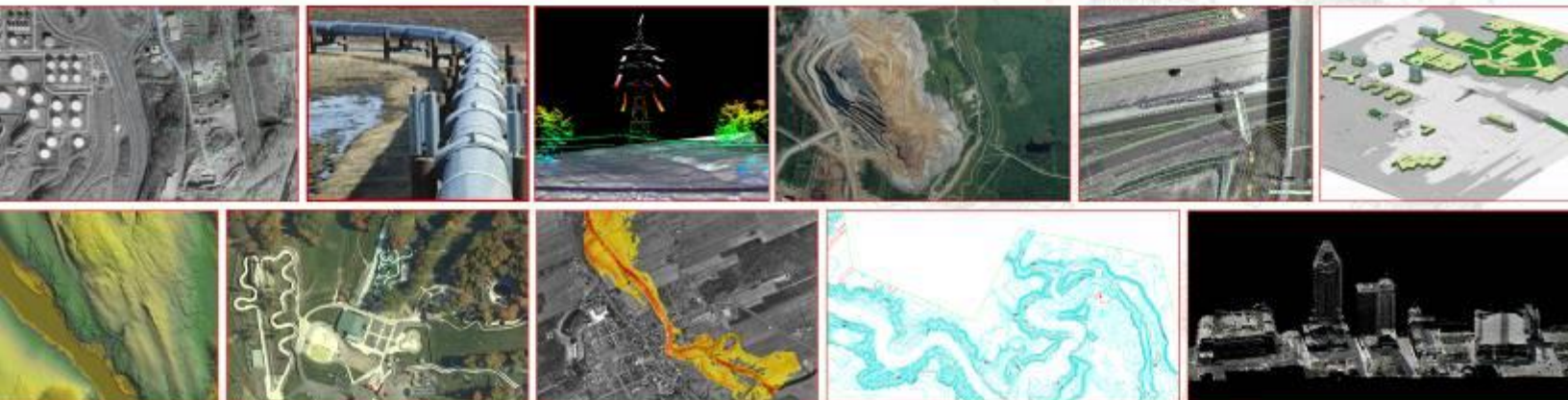
Imagerie de plan
d'urbanisme

Wallbridge Mining Company Limited

LiDAR survey

TECHNICAL REPORT

July 15th, 2015



T 1.450.430.9266 F 1.450.437.2923

WWW.GROUPPHB.COM

TABLE OF CONTENTS

PROJECT OBJECTIVES	2
LOCATION	2
CLIENT.....	2
OPERATIONAL CONTEXT.....	2
AIRBORNE LASER SURVEY	2
LASER PROCESSING	4
REPORT AND DELIVERABLES	5
REFERENCE SYSTEM	6
TECHNICAL SPECIFICATIONS	7
LIDAR OPTECH ALTM GEMINI	7
ANNEX 01	9
CALIBRATION REPORT LIDAR	9
ANNEX 02.....	20
CONTROL POINTS.....	20
ANNEX 03.....	22
GPS - PPP	22

➤ **PROJECT OBJECTIVES**

LiDAR acquisition for an area of about XXX km² near Sudbury, Ontario

➤ **LOCATION**

Near Sudbury, Ontario

➤ **CLIENT**

Contact Natalie MacLean
Company Wallbridge Mining Company Limited

➤ **OPERATIONAL CONTEXT**

Field operations

Airborne Laser Survey

Office Operations

Laser Processing (adjustments, classification)
Report and Deliverables

➤ **AIRBORNE LASER SURVEY**

Instrument

Piper Navajo, registered C-GOVX
(Aeroscan)

Airborne laser system

Model Optech ALTM Gemini No. 07sen209
Previous Maintenance March 2015
See technical specifications in annex

Flight Parameters

Debit	70 000 Hz
Scanning Frequency	38 Hz
Scanning Angle	24 degrees (on both sides of the nadir)
Flight Height	900 m above ground
Flight Speed	77 m/s
Scanning Width	764 m
Overlap	20%
Theoretical Density	1 points each square meter

Returns

Number	Four (4) Maximum per impulsion
Types	First returns, last returns, singular returns, intermediate returns
Intensity	Associated to each of the returns, for each of the impulsions

GPS base station

Permanent GPS Base station PHB	Base stations set up by PHB
	The official coordinates for the GPS base stations: PPP download through NRCAN (see Annexe 03: GPS-PPP for more detail)

Periods

(local time)	Session 119-1	Apr 29 th , 2015	10:35am-2:44pm
	Session 120-1	Apr 30 th , 2015	11:06am-3:46pm
	Session 120-2	Apr 30 th , 2015	5:32pm-7:17pm
	Session 121-1	May 1 st , 2015	9:17am-1:07pm
	Session 121-2	May 1 st , 2015	3:20pm-6:06pm
	Session 122-1	May 2 nd , 2015	9:15am-12:26pm

Software

PosPac of Trimble (Trajectory Calculations)
DashMap of Optech (Laser Point Calculations)

➤ **LASER PROCESSING**

Adjustment

MÉTHODOLOGY

Iterative process enabling the improvement of the parameters of the calibration of the airborne laser system so as to ensure a proper coherence between flight lines

SOFTWARE

TerraMatch of the TerraSolid family

Classification

MÉTHODOLOGY

Automatic classification of ground points with the help of an algorithm developed internally, only the last returns and the singular returns are used during this classification

Edition of the classification of the ground points by experimented technicians

SOFTWARE

TerraScan of the TerraSolid family

Control Method

Control Sites completed by PHB

Closures

Result obtain from the verification with the laser data

Average = 0.002 m

Standard Deviation = 0.016 m

(See annex 2 for details)

Precision

The closures obtained enable to confirm that the airborne laser survey respects the project standards

Cutting

By tiles(1000 m by 1000 m)



REPORT AND DELIVERABLES

Digital deliverables

FIELD OPERATIONS

Airborne laser survey

Calibration report of the airborne laser system - Annex 1

OFFICE OPERATIONS

Laser Processing

Limit of the Project (DXF)

Tile Index 1km by 1km (DXF)

Classified LiDAR point cloud (LAS Format)

Digital elevation model (TXT format (X, Y, Z)

Digital surface model (TXT format (X, Y, Z)

Intensity images (GeoTIFF)

Contour lines (DWG, DXF and MapInfo)

Technical report (PDF)

➤ **REFERENCE SYSTEM**

Projection

Universal Transverse Mercator (UTM), zone 17

Horizontal Datum

NAD83 Original

A handwritten signature in blue ink, appearing to read 'E. Chalifour', written over a white rectangular background.

Eric Chalifour, a.-g., B.Sc.
Director

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Technical Specifications

Lidar Optech ALTM Gemini

Optech **ALTM GEMINI**

Airborne Module

Operating altitude 150 - 4,000 m nominal
 Horizontal accuracy 1/5,500 x altitude; 1-sigma

Elevation accuracy

Laser rep rate (kHz)	500 m altitude	1000 m altitude	2000 m altitude	3000 m altitude	4000 m altitude
33	< 5 cm	< 10 cm	< 15 cm	< 20 cm	< 25 cm
50	< 5 cm	< 10 cm	< 15 cm	< 20 cm	n/a
70	< 5 cm	< 10 cm	< 15 cm	n/a	n/a
100	< 10 cm	< 10 cm	< 15 cm	n/a	n/a

Range capture Up to 4 range measurements for each pulse, including last

Intensity capture 12 bit dynamic range for each measurement

Scan frequency Variable; maximum 70 Hz
Optional 100 Hz

Scan angle Variable from 0 to $\pm 25^\circ$, in increments of $\pm 1^\circ$

Scanner Product Scan angle x scan frequency $\leq 1,000$

Roll compensation 5 Hz update rate
(Scan angle + Roll comp. angle = 30° , i.e., $\pm 20^\circ$ scan allows $\pm 10^\circ$ compensation)

Swath width Variable from 0 to 0.93 x altitude (m)

Position Orientation System Applanix - POS/AV including internal 12 channel dual frequency 10 Hz GPS receiver

Spot distribution Sawtooth, uniform across 90% of scan

Laser repetition rate 33 kHz (max. altitude (AGL) 4.0 km)
50 kHz (max. altitude (AGL) 3.0 km)
70 kHz (max. altitude (AGL) 2.5 km)
100 kHz (max. altitude (AGL) 2.0 km)

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 inquiries@optechintl.com

MULTIPULSE . THE SCIENCE OF PRECISION

Data storage hard drives Ruggedized removable media
Typical 7 hr. continuous log time
@ 100 kHz, freely configurable

Beam divergence Dual divergence 0.25 mrad or 0.8 mrad

Laser classification Class IV (FDA CFR 21)

Power requirements 28 VDC, 35 A (maximum)

Operating temperature (ambient) Control rack: $+10^\circ\text{C}$ to $+35^\circ\text{C}$
Sensor head: -10°C to $+35^\circ\text{C}$

Storage temperature -10°C to $+50^\circ\text{C}$

Humidity 0 - 95% non-condensing

Control Rack

Vibration-isolated case
 DimensionS 65 cm x 59 cm x 49 cm
 weight 53.2 kg
 Cables/laptop 7.6 kg/3 kg

Sensor Head

Fits standard camera mounts or mounts directly to floor

Dimensions 26 cm x 19 cm x 57 cm
 Weight 23.4 kg
 Minimum opening 19.2 cm x 25.5 cm (flight direction)

Processing Software

Survey Suite Differential kinematic GPS solution
 Trajectory optimization from multiple base stations
 XYZ point calculations module
 Vegetation classification/
 extraction feature
 Windows XP compatible

GPS Ground Support

Multiple base stations Any dual frequency receiver with Rinex output



ANNEX 01

Calibration Report LiDAR



ALTM
Annual Maintenance Report

Client: PHB
System Serial Number: 07SEN209
System Model: Gemini
Location of Service: Boisbriand, QC
Service Start Date: 02-Mar-15
Service End Date: March 6, 2015
Warranty Number: ST 7292 - Annual Maintenance
ST 7431 - Power Cable Connector
ST 7034 - Intensity Variations
ST 5506 - POS AV Logging Issues

Service Performed By: Julia Zhu

System Owner Representative: Adrian Salazar

Optech Incorporated
Airborne Survey Products
300 Interchange Way
Vaughan, Ontario, Canada L4K 5Z8

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0061523/Rev A

January 2010

Contents

	Page
1 OVERVIEW.....	1
1.1 Purpose	1
1.2 Scope.....	1
2 SERVICE METHODOLOGY.....	2
2.1 Outline of services	2
2.2 Service results and comments	2
2.3 Services conclusion	4

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SUMMARY

The ALTM system, model number Gemini, bearing serial number 07SEN209, has been serviced as per Optech's standard annual maintenance procedures.

SYSTEM CONFIRMATION AND ACCEPTANCE

Optech Incorporated, by virtue of the signature on the title page of this report, hereby certifies that the ALTM system, model number Gemini, with serial number 07SEN209, has been successfully serviced as listed in the summary.



ALTM Annual Maintenance Report

1 Overview

1.1 Purpose

The ALTM Maintenance Report represents the work completed and the confirmation of the ALTM system performance after service.

1.2 Scope

This report contains ALTM system service information for the indicated system only.



2 Service Methodology

2.1 Outline of services

Hardware Service description
Annual Maintenance was carried out on the system. - New laser fiber cap is provided to replace the one lost. - ST 7431: provided new Junction Box and power cables. - ST 7034: upgraded Rx logic firmware, checked related wirings inside of sensor head. - ST 5506: upgraded POS firmware and POS AV controller, is able to clean POS internal drive.
General comments
The system was maintained fine.

2.2 Service results and comments

Completed	Comments
<input checked="" type="checkbox"/> Inspect all cables	Inspected and recorded part numbers
<input checked="" type="checkbox"/> Photograph the ALTM system	Completed
<input checked="" type="checkbox"/> Perform overall system inspection	Completed, no damage
<input checked="" type="checkbox"/> Inspect, clean, and photograph laser fiber	Inspected and cleaned
<input checked="" type="checkbox"/> Clean laser power supply filter	Cleaned
<input checked="" type="checkbox"/> Clean chassis filter (3070 onwards)	Cleaned
<input checked="" type="checkbox"/> Clean chassis	Cleaned
<input checked="" type="checkbox"/> Inspect and clean accessible optics (inside the sensor)	Inspected and cleaned mirrors
<input checked="" type="checkbox"/> Record laser head serial number	Recorded



ALTM Annual Maintenance Report

Completed	Comments
<input checked="" type="checkbox"/> Record IMU serial number	Sagem 055
<input checked="" type="checkbox"/> Check fan bearings	Checked, function normally
<input checked="" type="checkbox"/> Perform standard hardware upgrades/enhancements	Checked, in current type
<input type="checkbox"/> Check galvo movement (pre-3070)	N/A
<input checked="" type="checkbox"/> Check flip-in lens operation	Checked, moves to correct positions
<input checked="" type="checkbox"/> Check shutter operation	Checked, operation normally
<input checked="" type="checkbox"/> Record sensor head power supply voltages	Recorded, within specifications
<input checked="" type="checkbox"/> Chassis power display on PDU (3070 onwards)	Checked, function normally
<input checked="" type="checkbox"/> Check laptop configuration and ALTM program versions	Configuration correct, ALTM 2.6.30 and POS AV 5.2
<input checked="" type="checkbox"/> Verify system firmware information	ACP 739c_rc2
<input checked="" type="checkbox"/> Copy configuration file (3070 onwards)	Completed
<input checked="" type="checkbox"/> Record firmware checksums using XILINX tool (3070 onwards)	Recorded
<input type="checkbox"/> Record board and firmware register shown on labels (pre-3070)	N/A
<input type="checkbox"/> Perform video annotation, VTR, and video monitor functional test	N/C
<input checked="" type="checkbox"/> Perform POS functional test and record POS/AV settings	Completed, function normally
<input checked="" type="checkbox"/> Record alignment period	Recorded



ALTM Annual Maintenance Report

Completed	Comments
<input checked="" type="checkbox"/> Record laser power supply information	Recorded
<input checked="" type="checkbox"/> Perform laser system performance characterization (POF, POW, and pulse shape)	Completed, all within specs
<input checked="" type="checkbox"/> Measure and record T0 voltage	Measured, within specs
<input checked="" type="checkbox"/> Measure laser DC offset	Measured and recorded, within spec
<input checked="" type="checkbox"/> Measure receiver APD voltage and temperature	Completed, normal
<input checked="" type="checkbox"/> Record scanner offset	Recorded, within spec
<input checked="" type="checkbox"/> Perform functional testing with 4 returns (with JPOD) (3070 onwards)	Completed, normal
<input checked="" type="checkbox"/> Test eye safety function (with JPOD)	Tested, function normally
<input type="checkbox"/> Check high-low gain CFD threshold (with JPOD)	N/C
<input type="checkbox"/> Perform functional testing with 2 returns (pre-3070) (with JPOD)	N/A
<input checked="" type="checkbox"/> Test shot-to-shot angle (delta angle) noise – scanning and profile (with JPOD)	Tested and recorded
<input checked="" type="checkbox"/> Test multipulse and variable modes (with JPOD) (Gemini only)	Tested, work normally

N/A = Not applicable
N/C = Not checked.

2.3 Services conclusion

Result	Comments
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	The system was ground tested successfully.



ALTM Annual Maintenance Report

ANNEX 02

Control points

Number	Easting	Northing	Known Z	Laser Z	Dz
1	515790.503	5163101.031	346.439	346.460	+0.021
2	515790.497	5163101.023	346.455	346.460	+0.005
3	515790.505	5163101.026	346.448	346.460	+0.012
4	515790.479	5163101.007	346.455	346.461	+0.006
5	515790.466	5163101.007	346.450	346.461	+0.011
6	515737.934	5163099.654	345.857	345.859	+0.002
7	515745.595	5163099.839	345.918	345.938	+0.020
8	515752.481	5163096.575	345.914	345.930	+0.016
9	515760.041	5163094.357	345.874	345.862	-0.012
10	515767.770	5163096.363	345.913	345.898	-0.015
11	515773.266	5163101.770	345.972	345.945	-0.027
12	515775.311	5163109.544	346.012	345.998	-0.014
13	515773.132	5163117.255	346.041	346.022	-0.019
14	515767.347	5163122.665	346.024	346.037	+0.013
15	515759.747	5163124.384	346.021	345.996	-0.025
16	515751.966	5163121.930	345.930	345.923	-0.007
17	515746.716	5163115.898	345.911	345.885	-0.026
18	515744.022	5163106.437	345.915	345.910	-0.005
19	515730.571	5163096.336	345.796	345.796	+0.000
20	515722.334	5163092.297	345.766	345.771	+0.005
21	515714.954	5163088.271	345.763	345.773	+0.010
22	515707.679	5163083.867	345.776	345.780	+0.004
23	515700.879	5163079.298	345.796	345.835	+0.039
24	515693.687	5163074.394	345.839	345.820	-0.019
25	515686.269	5163069.335	345.877	345.902	+0.025
26	515768.131	5163088.900	345.839	345.845	+0.006
27	515770.592	5163081.943	345.760	345.751	-0.009
28	515761.541	5163079.432	345.744	345.724	-0.020
29	515753.217	5163080.565	345.760	345.783	+0.023
30	515745.158	5163083.411	345.799	345.814	+0.015
31	515738.153	5163083.631	345.808	345.805	-0.003
32	515730.569	5163080.147	345.682	345.686	+0.004
33	515722.879	5163075.300	345.691	345.703	+0.012
34	515715.208	5163069.954	345.674	345.682	+0.008
35	515707.422	5163064.618	345.699	345.720	+0.021

Average dz	+0.002
Minimum dz	-0.027
Maximum dz	+0.039
Average magnitude	0.014
Root mean square	0.016
Std deviation	0.016

ANNEX 03

GPS - PPP



CSRS-PPP (V 1.05 34613)



4674

Data Start	Data End	Duration of Observations
2015-04-29 14:01:30.000	2015-04-29 19:08:30.000	5h 6m 60.00s
Apri / Aposteriori Phase Std	Apri / Aposteriori Code Std	
0.015m / 0.005m	2.0m / 0.772m	
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	-0.08 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
TRM60158.00	L1= 0.085 m L2= 0.081 m	1.350 m

(APC = antenna phase center; ARP = antenna reference point)

Estimated Position for 46741190.15o

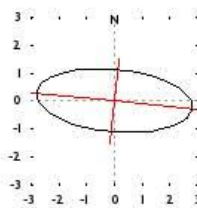
	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	46° 37' 12.0552"	-80° 47' 56.6011"	310.167 m
Sigmas (95%)	0.009 m	0.022 m	0.041 m
Apriori	46° 37' 12.048"	-80° 47' 56.618"	315.157 m
Estimated - Apriori	0.239 m	0.364 m	-4.990 m

Orthometric Height
CGVD28 (HTv2.0)

345.668 m

(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 2.820cm
semi-minor: 1.110cm
semi-major azimuth: 95° 21' 1.52"



UTM (North) Zone 17

5162958.809m (N) 515384.862m (E)

Scale Factors
0.99960291 (point)
0.99955425 (combined)

(Coordinates from RINEX file used as apriori position)



CSRS-PPP (V 1.05 34613)



4674

Data Start	Data End	Duration of Observations
2015-04-30 14:40:00.000	2015-04-30 20:11:00.000	5h 30m 60.00s
Apri / Aposteriori Phase Std	Apri / Aposteriori Code Std	
0.015m / 0.005m	2.0m / 0.939m	
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.08 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
TRM60158.00	L1= 0.085 m L2= 0.081 m	1.350 m

(APC = antenna phase center; ARP = antenna reference point)

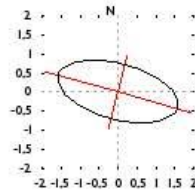
Estimated Position for 46741201.15o

	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	46° 37' 12.0547"	-80° 47' 56.6019"	310.136 m
Sigmas(95%)	0.006 m	0.013 m	0.026 m
Apriori	46° 37' 12.063"	-80° 47' 56.652"	312.969 m
Estimated - Apriori	-0.248 m	1.069 m	-2.832 m

Orthometric Height
CGVD28 (HTv2.0)

345.637 m
(click here for model and accuracy)

95% Error Ellipse (cm)
 semi-major: 1.628cm
 semi-minor: 0.723cm
 semi-major azimuth: 104° 37' 31.17"



UTM (North) Zone 17

5162958.793m (N) 515384.845m (E)

Scale Factors
 0.99960291 (point)
 0.99955425 (combined)

(Coordinates from RINEX file used as apriori position)



CSRS-PPP (V 1.05 34613)



4674

Data Start	Data End	Duration of Observations
2015-05-01 12:26:30.000	2015-05-01 17:24:00.000	4h 57m 30.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.005m		2.0m / 0.919m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	-0.07 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
TRM60158.00	L1= 0.085 m L2= 0.081 m	1.350 m

(APC = antenna phase center; ARP = antenna reference point)

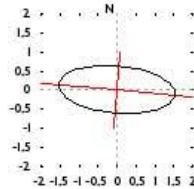
Estimated Position for 46741210.15o

	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	46° 37' 12.0547"	-80° 47' 56.6022"	310.141 m
Sigmas(95%)	0.005 m	0.012 m	0.023 m
Apriori	46° 37' 12.087"	-80° 47' 56.579"	309.523 m
Estimated - Apriori	-0.997 m	-0.493 m	0.618 m

**Orthometric Height
CGVD28 (HTv2.0)**

345.642 m
(click here for model and accuracy)

95% Error Ellipse (cm)
 semi-major: 1.541cm
 semi-minor: 0.611cm
 semi-major azimuth: 95° 8' 41.36"



UTM (North) Zone 17

5162958.793m(N) 515384.838m(E)

Scale Factors
 0.99960291 (point)
 0.99955425 (combined)

(Coordinates from RINEX file used as apriori position)



CSRS-PPP (V 1.05 34613)



4674

Data Start	Data End	Duration of Observations
2015-05-01 18:36:30.000	2015-05-01 22:29:30.000	3h 53m 0.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.005m		2.0m / 0.942m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.11 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
TRM60158.00	L1= 0.085 m L2= 0.081 m	1.350 m

(APC = antenna phase center; ARP = antenna reference point)

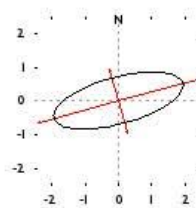
Estimated Position for 46741211.15o

	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	46° 37' 12.0549''	-80° 47' 56.6019''	310.142 m
Sigmas (95%)	0.007 m	0.016 m	0.026 m
Apriori	46° 37' 12.067''	-80° 47' 56.658''	311.183 m
Estimated - Apriori	-0.362 m	1.190 m	-1.040 m

Orthometric Height
CGVD28 (HTv2.0)

345.643 m
(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 2.009cm
semi-minor: 0.692cm
semi-major azimuth: 74° 52' 16.83''



UTM (North) Zone 17

5162958.799m(N) 515384.845m(E)

Scale Factors
0.99960291 (point)
0.99955425 (combined)

(Coordinates from RINEX file used as apriori position)



CSRS-PPP (V 1.05 34613)



4674

Data Start	Data End	Duration of Observations
2015-05-02 12:40:30.000	2015-05-02 16:49:30.000	4h 9m 0.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.005m		2.0m / 0.917m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	-0.11 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
TRM60158.00	L1= 0.085 m L2= 0.081 m	1.350 m

(APC = antenna phase center; ARP = antenna reference point)

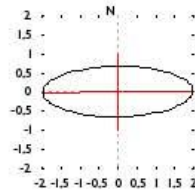
Estimated Position for 46741220.15o

	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	46° 37' 12.0550"	-80° 47' 56.6020"	310.145 m
Sigmas(95%)	0.005 m	0.016 m	0.025 m
Apriori	46° 37' 12.102"	-80° 47' 56.628"	308.633 m
Estimated - Apriori	-1.466 m	0.559 m	1.512 m

Orthometric Height
CGVD28 (HTv2.0)

345.646 m
(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 1.973cm
semi-minor: 0.661cm
semi-major azimuth: 89° 16' 5.44"



UTM (North) Zone 17

5162958.802m(N) 515384.842m(E)

Scale Factors
0.99960291 (point)
0.99955425 (combined)

(Coordinates from RINEX file used as apriori position)



CSRS-PPP (V 1.05 34613)



7586

Data Start	Data End	Duration of Observations
2015-04-30 21:07:00.000	2015-04-30 23:38:30.000	2h 31m 30.00s
Apri / Aposteriori Phase Std		Apri / Aposteriori Code Std
0.015m / 0.005m		2.0m / 0.703m
Observations	Frequency	Mode
Phase and Code	L1 and L2	Static
Elevation Cut-Off	Rejected Epochs	Observation & Estimation Steps
10.000 degrees	0.09 %	1.00 sec / 30.00 sec
Antenna Model	APC to ARP	ARP to Marker
TRM60158.00	L1= 0.085 m L2= 0.081 m	1.535 m

(APC = antenna phase center; ARP = antenna reference point)

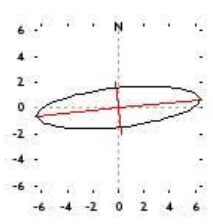
Estimated Position for 75861202.15o

	Latitude (+n)	Longitude (+e)	Ell. Height
NAD83(CSRS) (1997)	46° 37' 12.1587"	-80° 47' 56.1593"	310.273 m
Sigmas (95%)	0.013 m	0.051 m	0.049 m
Apriori	46° 37' 12.152"	-80° 47' 56.172"	312.186 m
Estimated - Apriori	0.220 m	0.275 m	-1.913 m

Orthometric Height
CGVD28 (HTv2.0)

345.774 m
(click here for model and accuracy)

95% Error Ellipse (cm)
semi-major: 6.362cm
semi-minor: 1.512cm
semi-major azimuth: 84° 11' 21.80"



UTM (North) Zone 17

5162962.027m(N) 515394.249m(E)

Scale Factors
0.99960291 (point)
0.99955423 (combined)

(Coordinates from RINEX file used as apriori position)

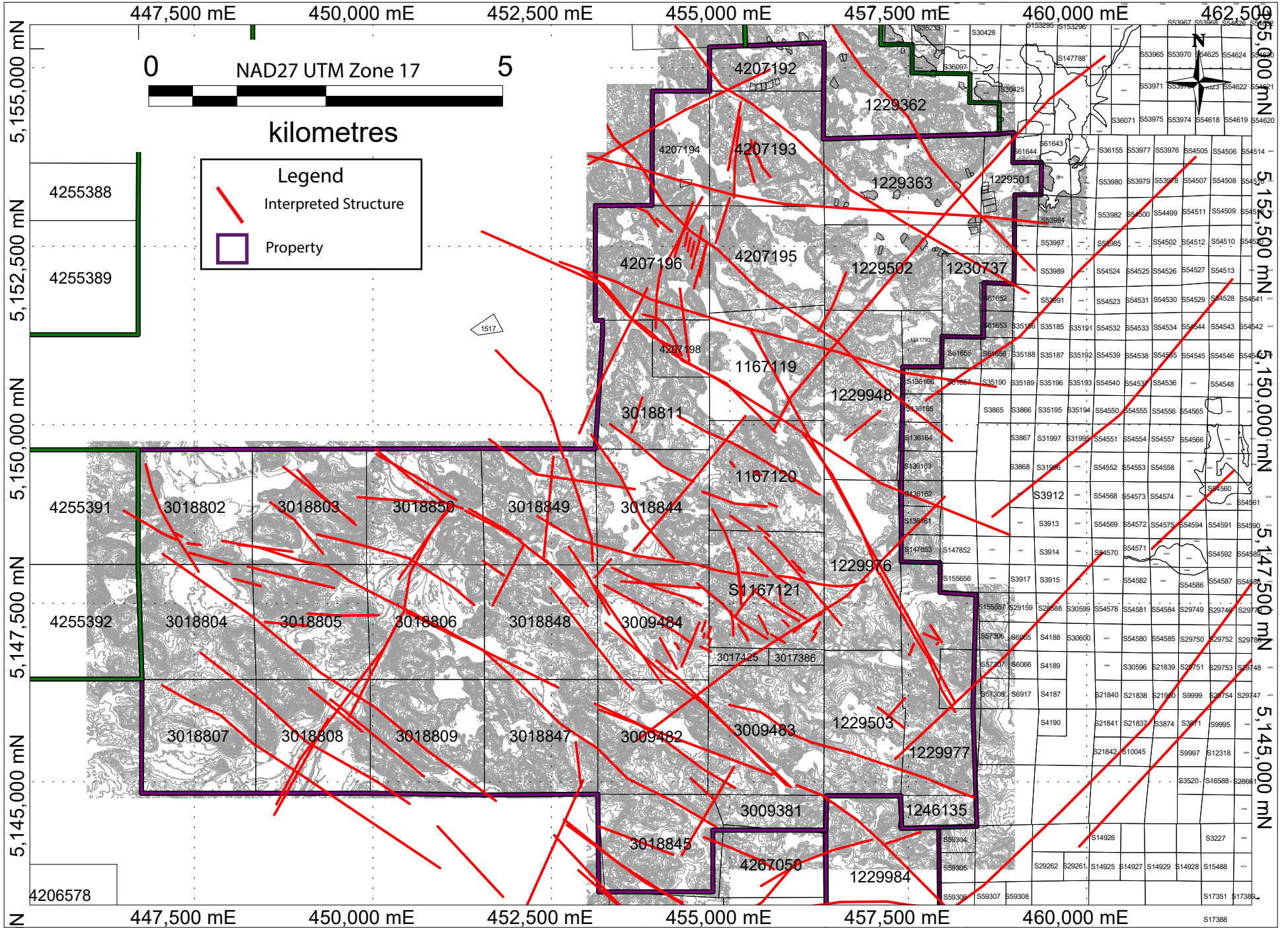
Appendix C: Cost Statement

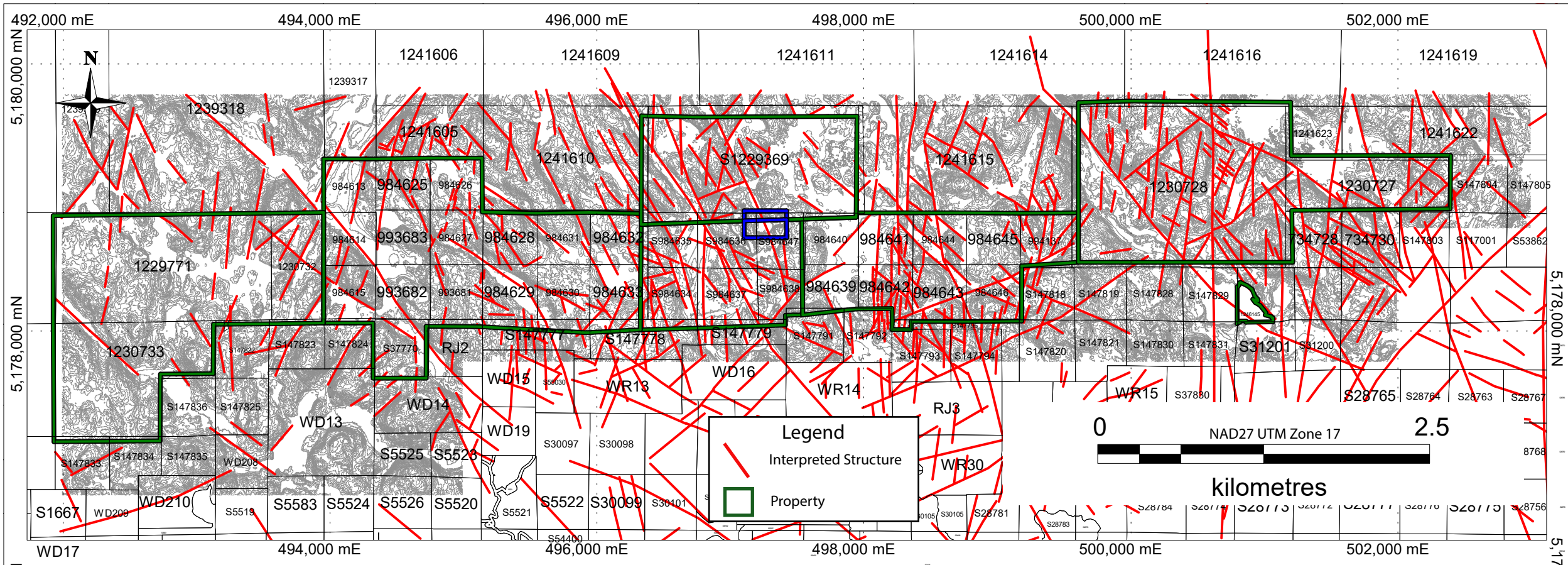
Information withheld for client confidentiality.

Appendix D: Invoices



Information withheld for client confidentiality.

Appendix E: Structural Interpretation





Legend

-  Interpreted Structure
-  Property



