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ASSESSMENT REPORT

BASED ON THE

# 2022 PROSPECTING EXPLORATION PROGRAM

# ON THE MATACHEWAN PROPERTY

COMPLETED FOR

**O3 MINING INC.**

CAIRO, FLAVELLE AND KIMBERLEY,
ONTARIO, CANADA

Larder Lake Mining Division
NTS: 41P15I
LATITUDE: 47°57’36” N
LONGITUDE: 80°35’25” W

CONTRIBUTORS

O3 Mining Inc. and Orix Geoscience 2018 Inc.

AUTHORS

Laura Katz, Ph.D., P.Geo.

Kyle Whitney, B.Sc., P.Geo.

May 8, 2023

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## 1.0 INTRODUCTION

This report has been prepared by O3 Mining Inc. to provide documentation of the prospecting work on the Matachewan Property in the Cairo and Flavelle Townships completed between October 28, 2022 and November 1, 2022 not including travel days. This program was the first field work completed by O3 Mining on the Matachewan Property. As a result, the purpose of the program was to identify the location of historical showings, evaluate their potential for future exploration, and prospect around the historical showings. Timelines and personnel involved in each specific type of work is presented in the body of the text and in the Appendices. A list of abbreviations is found in Appendix A.

The samples were sent to ALS Global. ALS Global is accredited with international standard ISO/IEC 17025:2017 and ISO 9001:2015.

## 2.0 PROPERTY DESCRIPTION AND LOCATION

The Matachewan Property is located within the Abitibi greenstone belt in northern Ontario. It is located in close proximity to the town of Matachewan, Ontario, which sits approximately 75 km southeast of Timmins, Ontario and 60 km west-southwest of Kirkland Lake, Ontario (Figure 1).

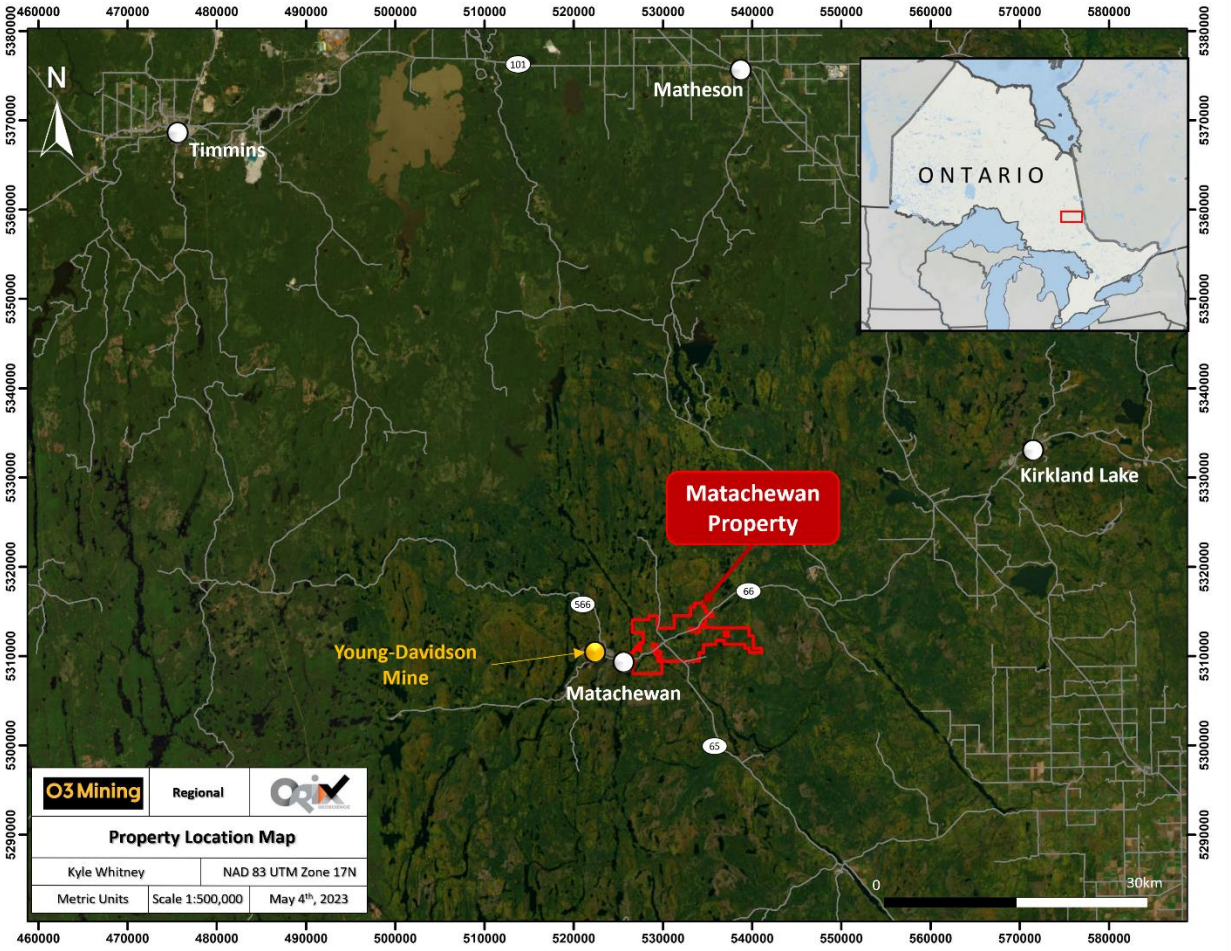


Figure 1. Location map of the Matachewan Property

The Matachewan Property is located approximately 1.5 km east of the town of Matachewan, with the geographical centre of the property at approximately 47°57'36" North latitude and 80°35'25" West longitude. It covers a majority of Cairo Township, and small parts of Flavelle, and Kimberly Townships. However, prospecting work during the 2022 field program was only conducted in the Cairo and Flavelle Townships.

The Matachewan Property is comprised of 284 contiguous mining claims units encompassing 5,108.59 hectares and measures approximately 8 by 14 km. Of the 284 claims, 212 are single claim cells and 72 are boundary claim cells. The claims are 100% owned by O3 Mining. A claim map for the Matachewan Property is presented in Figure 2, and a list of the claims is summarized below in Table 1.

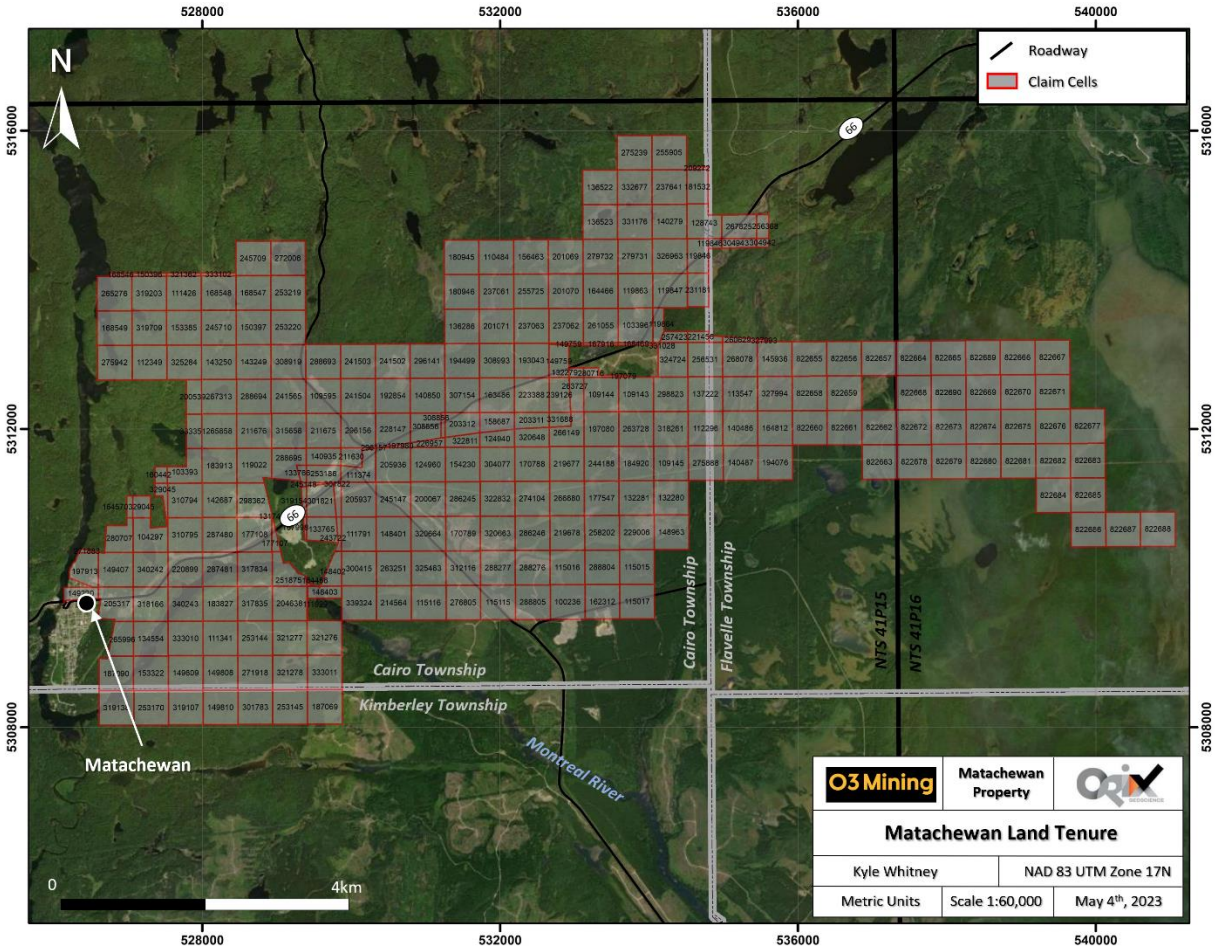


Figure 2. Claim map of the Matachewan Property

Table 1. Matachewan Property land tenure information

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 103396 | 41P15I133 | SCMC | CAIRO | 2024-01-08 | 21.62 | $ 400 |
| 119864 | 41P15I134 | BCMC | CAIRO | 2024-01-08 | 6.53 | $ 200 |
| 167916 | 41P15I152 | BCMC | CAIRO | 2024-01-08 | 1.64 | $ 200 |
| 168469 | 41P15I153 | BCMC | CAIRO | 2024-01-08 | 1.77 | $ 200 |
| 237062 | 41P15I131 | SCMC | CAIRO | 2024-01-08 | 21.62 | $ 400 |

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 237063 | 41P15I130 | SCMC | CAIRO | 2024-01-08 | 21.62 | $ 400 |
| 255905 | 41P15I034 | SCMC | CAIRO | 2024-01-08 | 21.61 | $ 400 |
| 261055 | 41P15I132 | SCMC | CAIRO | 2024-01-08 | 21.62 | $ 400 |
| 275239 | 41P15I033 | SCMC | CAIRO | 2024-01-08 | 21.61 | $ 400 |
| 331028 | 41P15I154 | BCMC | CAIRO | 2024-01-08 | 0.30 | $ 200 |
| 332677 | 41P15I053 | SCMC | CAIRO | 2024-01-08 | 21.61 | $ 400 |
| 119846 | 41P15I095 | BCMC | CAIRO, FLAVELLE | 2024-03-09 | 15.64 | $ 200 |
| 256368 | 41P15I077 | BCMC | FLAVELLE | 2024-03-09 | 5.27 | $ 200 |
| 267825 | 41P15I076 | BCMC | FLAVELLE | 2024-03-09 | 14.84 | $ 200 |
| 304942 | 41P15I097 | BCMC | FLAVELLE | 2024-03-09 | 1.98 | $ 200 |
| 304943 | 41P15I096 | BCMC | FLAVELLE | 2024-03-09 | 5.88 | $ 200 |
| 128743 | 41P15I075 | BCMC | CAIRO, FLAVELLE | 2024-03-22 | 18.98 | $ 200 |
| 140279 | 41P15I074 | SCMC | CAIRO | 2024-03-22 | 21.61 | $ 400 |
| 181532 | 41P15I055 | BCMC | CAIRO, FLAVELLE | 2024-03-22 | 13.23 | $ 200 |
| 237641 | 41P15I054 | SCMC | CAIRO | 2024-03-22 | 21.61 | $ 400 |
| 100236 | 41P15I291 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 115015 | 41P15I273 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 115016 | 41P15I271 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 115017 | 41P15I293 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 115115 | 41P15I289 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 115116 | 41P15I287 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 148402 | 41P15I264 | BCMC | CAIRO | 2024-04-25 | 9.16 | $ 200 |
| 148403 | 41P15I284 | BCMC | CAIRO | 2024-04-25 | 7.49 | $ 200 |
| 162312 | 41P15I292 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 184486 | 41P15I263 | BCMC | CAIRO | 2024-04-25 | 0.11 | $ 200 |
| 214564 | 41P15I286 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 257423 | 41P15I134 | BCMC | CAIRO | 2024-04-25 | 5.06 | $ 200 |
| 263251 | 41P15I266 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 276805 | 41P15I288 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 288276 | 41P15I270 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 288277 | 41P15I269 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 288804 | 41P15I272 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 288805 | 41P15I290 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 300415 | 41P15I265 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 312116 | 41P15I268 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 324724 | 41P15I154 | BCMC | CAIRO | 2024-04-25 | 18.47 | $ 200 |
| 325463 | 41P15I267 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 339324 | 41P15I285 | SCMC | CAIRO | 2024-04-25 | 21.63 | $ 400 |
| 112296 | 41P15I195 | SCMC | CAIRO, FLAVELLE | 2024-04-30 | 21.62 | $ 400 |
| 113547 | 41P15I176 | SCMC | FLAVELLE | 2024-04-30 | 21.62 | $ 400 |
| 137222 | 41P15I175 | SCMC | CAIRO, FLAVELLE | 2024-04-30 | 21.62 | $ 400 |
| 140486 | 41P15I196 | SCMC | FLAVELLE | 2024-04-30 | 21.62 | $ 400 |
| 140487 | 41P15I216 | SCMC | FLAVELLE | 2024-04-30 | 21.63 | $ 400 |
| 145936 | 41P15I157 | BCMC | FLAVELLE | 2024-04-30 | 7.51 | $ 200 |
| 164812 | 41P15I197 | BCMC | FLAVELLE | 2024-04-30 | 7.24 | $ 200 |
| 194076 | 41P15I217 | SCMC | FLAVELLE | 2024-04-30 | 21.63 | $ 400 |
| 221456 | 41P15I135 | BCMC | CAIRO, FLAVELLE | 2024-04-30 | 5.58 | $ 200 |

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 256531 | 41P15I155 | SCMC | CAIRO, FLAVELLE | 2024-04-30 | 21.62 | $ 400 |
| 260629 | 41P15I136 | BCMC | FLAVELLE | 2024-04-30 | 2.70 | $ 200 |
| 265858 | 41P15I181 | SCMC | CAIRO | 2024-04-30 | 21.62 | $ 400 |
| 268078 | 41P15I156 | SCMC | FLAVELLE | 2024-04-30 | 21.62 | $ 400 |
| 275888 | 41P15I215 | SCMC | CAIRO, FLAVELLE | 2024-04-30 | 21.63 | $ 400 |
| 327993 | 41P15I137 | BCMC | FLAVELLE | 2024-04-30 | 0.56 | $ 200 |
| 327994 | 41P15I177 | BCMC | FLAVELLE | 2024-04-30 | 7.38 | $ 200 |
| 333351 | 41P15J200 | BCMC | CAIRO | 2024-04-30 | 9.67 | $ 200 |
| 131745 | 41P15I223 | BCMC | CAIRO | 2023-05-10 | 0.02 | $ 200 |
| 149220 | 41P15J297 | SCMC | CAIRO | 2023-05-10 | 7.91 | $ 200 |
| 160442 | 41P15J219 | BCMC | CAIRO | 2023-05-10 | 3.73 | $ 200 |
| 164570 | 41P15J238 | BCMC | CAIRO | 2023-05-10 | 2.38 | $ 200 |
| 197913 | 41P15J277 | BCMC | CAIRO | 2023-05-10 | 14.49 | $ 200 |
| 271883 | 41P15J257 | BCMC | CAIRO | 2023-05-10 | 0.84 | $ 200 |
| 329045 | 41P15J239 | BCMC | CAIRO | 2023-05-10 | 11.13 | $ 200 |
| 109143 | 41P15I173 | SCMC | CAIRO | 2023-06-13 | 21.62 | $ 400 |
| 109144 | 41P15I172 | SCMC | CAIRO | 2023-06-13 | 21.62 | $ 400 |
| 109145 | 41P15I214 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 111374 | 41P15I205 | BCMC | CAIRO | 2023-06-13 | 14.07 | $ 200 |
| 111791 | 41P15I245 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 124940 | 41P15I189 | BCMC | CAIRO | 2023-06-13 | 10.09 | $ 200 |
| 124960 | 41P15I207 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 132279 | 41P15I151 | BCMC | CAIRO | 2023-06-13 | 2.57 | $ 200 |
| 132280 | 41P15I234 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 132281 | 41P15I233 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 133766 | 41P15I203 | BCMC | CAIRO | 2023-06-13 | 2.38 | $ 200 |
| 148401 | 41P15I246 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 148963 | 41P15I254 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 154230 | 41P15I208 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 170788 | 41P15I210 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 170789 | 41P15I248 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 177547 | 41P15I232 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 184920 | 41P15I213 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 197079 | 41P15I153 | BCMC | CAIRO | 2023-06-13 | 0.35 | $ 200 |
| 197080 | 41P15I192 | SCMC | CAIRO | 2023-06-13 | 21.62 | $ 400 |
| 197980 | 41P15I186 | BCMC | CAIRO | 2023-06-13 | 1.32 | $ 200 |
| 200067 | 41P15I227 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 205936 | 41P15I206 | BCMC | CAIRO | 2023-06-13 | 21.60 | $ 200 |
| 205937 | 41P15I225 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 219677 | 41P15I211 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 219678 | 41P15I251 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 226957 | 41P15I187 | BCMC | CAIRO | 2023-06-13 | 4.64 | $ 200 |
| 229006 | 41P15I253 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 243722 | 41P15I244 | BCMC | CAIRO | 2023-06-13 | 2.74 | $ 200 |
| 244188 | 41P15I212 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 245147 | 41P15I226 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 245148 | 41P15I223 | BCMC | CAIRO | 2023-06-13 | 0.41 | $ 200 |

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 253186 | 41P15I204 | BCMC | CAIRO | 2023-06-13 | 10.84 | $ 200 |
| 258202 | 41P15I252 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 263727 | 41P15I171 | BCMC | CAIRO | 2023-06-13 | 8.67 | $ 200 |
| 263728 | 41P15I193 | SCMC | CAIRO | 2023-06-13 | 21.62 | $ 400 |
| 266149 | 41P15I191 | BCMC | CAIRO | 2023-06-13 | 15.96 | $ 200 |
| 266680 | 41P15I231 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 274104 | 41P15I230 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 280716 | 41P15I152 | BCMC | CAIRO | 2023-06-13 | 3.30 | $ 200 |
| 286245 | 41P15I228 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 286246 | 41P15I250 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 298823 | 41P15I174 | SCMC | CAIRO | 2023-06-13 | 21.62 | $ 400 |
| 301822 | 41P15I224 | BCMC | CAIRO | 2023-06-13 | 5.15 | $ 200 |
| 304077 | 41P15I209 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 318261 | 41P15I194 | SCMC | CAIRO | 2023-06-13 | 21.62 | $ 400 |
| 320648 | 41P15I190 | BCMC | CAIRO | 2023-06-13 | 11.77 | $ 200 |
| 320663 | 41P15I249 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 320664 | 41P15I247 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 322811 | 41P15I188 | BCMC | CAIRO | 2023-06-13 | 7.63 | $ 200 |
| 322832 | 41P15I229 | SCMC | CAIRO | 2023-06-13 | 21.63 | $ 400 |
| 192854 | 41P15I166 | SCMC | CAIRO | 2023-06-21 | 21.62 | $ 400 |
| 228147 | 41P15I186 | BCMC | CAIRO | 2023-06-21 | 20.34 | $ 200 |
| 241502 | 41P15I146 | SCMC | CAIRO | 2023-06-21 | 21.62 | $ 400 |
| 296157 | 41P15I206 | BCMC | CAIRO | 2023-06-21 | 0.03 | $ 200 |
| 104297 | 41P15J259 | SCMC | CAIRO | 2023-06-22 | 18.88 | $ 200 |
| 149407 | 41P15J278 | SCMC | CAIRO | 2023-06-22 | 21.60 | $ 200 |
| 280707 | 41P15J258 | BCMC | CAIRO | 2023-06-22 | 14.17 | $ 200 |
| 340242 | 41P15J279 | SCMC | CAIRO | 2023-06-22 | 21.63 | $ 400 |
| 177107 | 41P15I243 | BCMC | CAIRO | 2023-06-30 | 2.92 | $ 200 |
| 177108 | 41P15I242 | SCMC | CAIRO | 2023-06-30 | 21.63 | $ 400 |
| 287480 | 41P15I241 | SCMC | CAIRO | 2023-06-30 | 21.63 | $ 400 |
| 310795 | 41P15J260 | SCMC | CAIRO | 2023-06-30 | 21.63 | $ 400 |
| 103393 | 41P15J220 | BCMC | CAIRO | 2023-08-02 | 15.48 | $ 200 |
| 109595 | 41P15I164 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 119022 | 41P15I202 | SCMC | CAIRO | 2023-08-02 | 20.94 | $ 200 |
| 140935 | 41P15I204 | BCMC | CAIRO | 2023-08-02 | 10.79 | $ 200 |
| 142687 | 41P15I221 | SCMC | CAIRO | 2023-08-02 | 21.63 | $ 400 |
| 183913 | 41P15I201 | SCMC | CAIRO | 2023-08-02 | 21.63 | $ 400 |
| 211630 | 41P15I205 | BCMC | CAIRO | 2023-08-02 | 7.56 | $ 200 |
| 211675 | 41P15I184 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 211676 | 41P15I182 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 241503 | 41P15I145 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 241504 | 41P15I165 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 288693 | 41P15I144 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 288695 | 41P15I203 | BCMC | CAIRO | 2023-08-02 | 17.67 | $ 200 |
| 296156 | 41P15I185 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 298362 | 41P15I222 | SCMC | CAIRO | 2023-08-02 | 19.53 | $ 200 |
| 310794 | 41P15J240 | SCMC | CAIRO | 2023-08-02 | 21.63 | $ 400 |

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 315658 | 41P15I183 | SCMC | CAIRO | 2023-08-02 | 21.62 | $ 400 |
| 133765 | 41P15I244 | BCMC | CAIRO | 2023-09-29 | 13.40 | $ 200 |
| 167998 | 41P15I243 | BCMC | CAIRO | 2023-09-29 | 1.10 | $ 200 |
| 301821 | 41P15I224 | BCMC | CAIRO | 2023-09-29 | 16.48 | $ 200 |
| 319154 | 41P15I223 | BCMC | CAIRO | 2023-09-29 | 2.38 | $ 200 |
| 140850 | 41P15I167 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 158687 | 41P15I189 | BCMC | CAIRO | 2023-09-30 | 11.53 | $ 200 |
| 163486 | 41P15I169 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 194499 | 41P15I148 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 203311 | 41P15I190 | BCMC | CAIRO | 2023-09-30 | 9.86 | $ 200 |
| 203312 | 41P15I188 | BCMC | CAIRO | 2023-09-30 | 13.99 | $ 200 |
| 223388 | 41P15I170 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 239126 | 41P15I171 | BCMC | CAIRO | 2023-09-30 | 12.97 | $ 200 |
| 296141 | 41P15I147 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 307154 | 41P15I168 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 308856 | 41P15I187 | BCMC | CAIRO | 2023-09-30 | 17.03 | $ 200 |
| 308993 | 41P15I149 | SCMC | CAIRO | 2023-09-30 | 21.62 | $ 400 |
| 331688 | 41P15I191 | BCMC | CAIRO | 2023-09-30 | 5.67 | $ 200 |
| 111341 | 41P15I301 | SCMC | CAIRO | 2023-10-09 | 21.64 | $ 400 |
| 111929 | 41P15I284 | BCMC | CAIRO | 2023-10-09 | 0.41 | $ 200 |
| 134554 | 41P15J319 | SCMC | CAIRO | 2023-10-09 | 21.64 | $ 400 |
| 149808 | 41P15I321 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 149809 | 41P15J340 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 149810 | 41P15I341 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 152040 | 41P15I264 | BCMC | CAIRO | 2023-10-09 | 0.00 | $ 200 |
| 153322 | 41P15J339 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 183827 | 41P15I281 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 187069 | 41P15I344 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 187090 | 41P15J338 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.28 | $ 200 |
| 204638 | 41P15I283 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 205317 | 41P15J298 | SCMC | CAIRO | 2023-10-09 | 20.61 | $ 200 |
| 220899 | 41P15J280 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 251875 | 41P15I263 | BCMC | CAIRO | 2023-10-09 | 13.93 | $ 200 |
| 253144 | 41P15I302 | SCMC | CAIRO | 2023-10-09 | 21.64 | $ 400 |
| 253145 | 41P15I343 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 253170 | 41P15J359 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 265996 | 41P15J318 | SCMC | CAIRO | 2023-10-09 | 13.83 | $ 200 |
| 271918 | 41P15I322 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 287481 | 41P15I261 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 301783 | 41P15I342 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 317834 | 41P15I262 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 317835 | 41P15I282 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 318166 | 41P15J299 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 319107 | 41P15J360 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 319138 | 41P15J358 | SCMC | KIMBERLEY | 2023-10-09 | 21.64 | $ 200 |
| 321276 | 41P15I304 | SCMC | CAIRO | 2023-10-09 | 21.64 | $ 400 |
| 321277 | 41P15I303 | SCMC | CAIRO | 2023-10-09 | 21.64 | $ 400 |

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 321278 | 41P15I323 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 333010 | 41P15J320 | SCMC | CAIRO | 2023-10-09 | 21.64 | $ 400 |
| 333011 | 41P15I324 | SCMC | CAIRO, KIMBERLEY | 2023-10-09 | 21.64 | $ 400 |
| 340243 | 41P15J300 | SCMC | CAIRO | 2023-10-09 | 21.63 | $ 400 |
| 111426 | 41P15J120 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 112349 | 41P15J159 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 143249 | 41P15I142 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 143250 | 41P15I141 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 150396 | 41P15J099 | BCMC | CAIRO | 2023-10-21 | 2.00 | $ 200 |
| 150397 | 41P15I122 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 153385 | 41P15J140 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 168546 | 41P15J098 | BCMC | CAIRO | 2023-10-21 | 1.28 | $ 200 |
| 168547 | 41P15I102 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 168548 | 41P15I101 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 168549 | 41P15J138 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 200 |
| 200539 | 41P15J180 | BCMC | CAIRO | 2023-10-21 | 9.57 | $ 200 |
| 241565 | 41P15I163 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 245709 | 41P15I082 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 245710 | 41P15I121 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 253219 | 41P15I103 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 253220 | 41P15I123 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 265276 | 41P15J118 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 200 |
| 267313 | 41P15I161 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 272006 | 41P15I083 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 275942 | 41P15J158 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 288694 | 41P15I162 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 308919 | 41P15I143 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 319203 | 41P15J119 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 319709 | 41P15J139 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 321362 | 41P15J100 | BCMC | CAIRO | 2023-10-21 | 1.95 | $ 200 |
| 325284 | 41P15J160 | SCMC | CAIRO | 2023-10-21 | 21.62 | $ 400 |
| 333102 | 41P15I081 | BCMC | CAIRO | 2023-10-21 | 1.90 | $ 200 |
| 119847 | 41P15I114 | SCMC | CAIRO | 2023-11-03 | 21.62 | $ 400 |
| 119863 | 41P15I113 | SCMC | CAIRO | 2023-11-03 | 21.62 | $ 400 |
| 209272 | 41P15I035 | BCMC | CAIRO, FLAVELLE | 2023-11-03 | 1.05 | $ 200 |
| 231181 | 41P15I115 | BCMC | CAIRO, FLAVELLE | 2023-11-03 | 12.96 | $ 200 |
| 110484 | 41P15I089 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 136522 | 41P15I052 | SCMC | CAIRO | 2023-11-14 | 21.61 | $ 400 |
| 136523 | 41P15I072 | SCMC | CAIRO | 2023-11-14 | 21.61 | $ 400 |
| 156463 | 41P15I090 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 164466 | 41P15I112 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 180945 | 41P15I088 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 180946 | 41P15I108 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 201069 | 41P15I091 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 201070 | 41P15I111 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 237061 | 41P15I109 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 255725 | 41P15I110 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |

| Tenure ID | Cell ID(s) | Tenure Type | Township / Area | Due date | Area (hectares) | Work Required |
|---|---|---|---|---|---|---|
| 279731 | 41P15I093 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 279732 | 41P15I092 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 326963 | 41P15I094 | SCMC | CAIRO | 2023-11-14 | 21.62 | $ 400 |
| 331176 | 41P15I073 | SCMC | CAIRO | 2023-11-14 | 21.61 | $ 400 |
| 136286 | 41P15I128 | SCMC | CAIRO | 2023-12-01 | 21.62 | $ 400 |
| 149759 | 41P15I151 | BCMC | CAIRO | 2023-12-01 | 13.06 | $ 200 |
| 193043 | 41P15I150 | SCMC | CAIRO | 2023-12-01 | 21.62 | $ 400 |
| 201071 | 41P15I129 | SCMC | CAIRO | 2023-12-01 | 21.62 | $ 400 |
| 822655 | 41P15I158 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822656 | 41P15I159 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822657 | 41P15I160 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822658 | 41P15I178 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822659 | 41P15I179 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822660 | 41P15I198 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822661 | 41P15I199 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822662 | 41P15I200 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822663 | 41P15I220 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822664 | 41P16L141 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822665 | 41P16L142 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822666 | 41P16L144 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822667 | 41P16L145 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822668 | 41P16L161 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822669 | 41P16L163 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822670 | 41P16L164 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822671 | 41P16L165 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822672 | 41P16L181 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822673 | 41P16L182 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822674 | 41P16L183 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822675 | 41P16L184 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822676 | 41P16L185 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822677 | 41P16L186 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822678 | 41P16L201 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822679 | 41P16L202 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822680 | 41P16L203 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822681 | 41P16L204 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822682 | 41P16L205 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822683 | 41P16L206 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822684 | 41P16L225 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822685 | 41P16L226 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822686 | 41P16L246 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822687 | 41P16L247 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822688 | 41P16L248 | SCMC | FLAVELLE | 2025-04-11 | 21.63 | $ 400 |
| 822689 | 41P16L143 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |
| 822690 | 41P16L162 | SCMC | FLAVELLE | 2025-04-11 | 21.62 | $ 400 |

# 3.0 PROPERTY ACCESS, CLIMATE, INFRASTRUCTURE AND PHYSIOGRAPHY

## 3.1 Accessibility

The Matachewan Property is bordered by the town of Matachewan on its southwestern edge and is approximately 60 km west of the town of Kirkland Lake. The Property can be accessed by provincial Highway 66, which cuts through the Property from southwest to northeast (Figures 1 and 2). Additionally, secondary roads and trails provide good access through the Property. Most areas can be accessed using these trails either by all-terrain vehicle or on foot.

## 3.2 Climate

Climate data was extracted from Environment and Climate Change Canada using the Earlton, Ontario weather station, which is the closest station to the property area with historical weather data. Earlton is located approximately 70 km east-southeast from Matachewan, Ontario.

The Matachewan Property is in a climatic region characterized by warm summers and very cold winters. Looking at long term climate data from the nearby town of Earlton's weather station, warmest temperatures occur in July, averaging 18.3$^{o}$C with extremes as high as 38.3$^{o}$C. The coldest month is January, with an average of -16.2$^{o}$C and extremes as low as -45$^{o}$C with humidex. Average monthly temperatures are below freezing for about 5 months of the year, from November through to March, with an average of 119 frost free days in the year.

Average yearly rainfall is 576.5 mm for the region, averaging the most in September and mainly falling from April to November. Snowfall averages 222.4 cm through the year, averaging the most in January and mainly falling from November to March.

## 3.3 Local Resources and Infrastructure

With proximity to the small mining town of Matachewan, and the larger populous mining hubs of Timmins and Kirkland Lake, the Matachewan Property is well served for supplies, services, and personnel. Matachewan, being the closest populated area, is a town of only 225 according to a 2016 census and offers only basic needs such as fuel and/or emergency repairs and services.

Kirkland Lake, located 60 km from the town of Matachewan, contains a population of nearly 8,000 where items such as food, accommodations, outdoors supplies, etc. are easily accessible. Timmins, although a longer drive of nearly two hours to the northwest, is the largest populous region with 41,788 people. Together with Kirkland Lake, both cities serve as prolific mining communities that offer various exploration services, such as drilling, line-cutting, geophysics etc., and a significant pool for personnel recruitment.

Locally, road infrastructure through the Matachewan Property is quite good, as Highways 66 is maintained year-round. As is typical of Northern Ontario, the Property is covered by several small lakes that could serve as water sources for exploration drilling.

## 3.4 Physiography

The Matachewan Property is characterized by a typical boreal forest environment that has been subject to repeated logging and forest fires in localized areas.

Topography is mostly low relief, with rolling terrain and several low-lying swampy regions. The region supports growth of pine and birch vegetation, with lesser spruce, fir, and poplar depending on the soil type and drainage. Lower relief areas are typically covered by cedar or cedar alder swamp.

Elevations on the Matachewan Property range from 300 m at the Montreal River in the southwest portion of the Property, all the way up to 420 m above mean sea level in the northeast. Outcrop exposure is considered good.

# 4.0 GEOLOGY

## 4.1 Regional Geology

The Matachewan Property is located in the southwestern part of the Abitibi greenstone belt of the Superior Province near the town of Matachewan (Figure 3). The Abitibi greenstone belt is bounded to the north by the Opatica subprovince, to the east and southeast it is truncated by the Mesoproterozoic Grenville front tectonic zone, to the southeast it is bounded by the Pontiac subprovince, in the south and southwest it is unconformably overlain by Paleoproterozoic rocks of the Huronian Supergroup and to the west the Abitibi greenstone belt is interrupted by the 500 km long north-northeast trending Kapuskasing structural zone that exposes granulite facies metamorphic rocks (Monecke et al., 2017).

The Abitibi greenstone belt is comprised of a complex and diverse sequence of volcanic, sedimentary, and plutonic rocks that are typically metamorphosed to greenschist facies, but locally attained amphibolite facies adjacent to large plutons. The Abitibi greenstone belt consists of east-trending successions of folded volcanic and sedimentary rocks, which contain intervening domes cored by synvolcanic and/or syntectonic intrusive rocks (Thurston et al., 2008; Monecke et al., 2017). Six volcanic assemblages have been defined, recording submarine volcanism during specific periods of time (Monecke et al., 2017). Volcanic rocks range in composition from rhyolite to komatiite and sedimentary rocks consist of both chemical and clastic types. The sedimentary rocks form as both intravolcanic sequences and unconformably overlying sequences. Most of the volcanic sedimentary strata dip vertically and are generally separated by abrupt, east-trending faults with variable dip (Thurston et al., 2008). The supracrustal rocks of the Abitibi greenstone belt are intruded by plutons of variable compositions (i.e., mafic to felsic) and sizes (Monecke et al. 2017). These intrusive rocks occur throughout the Abitibi greenstone belt and range in timing from pre-tectonic, syn-tectonic, and post-tectonic. All rock types are cut by late, north to northeast-trending diabase dikes of Proterozoic age.

The Abitibi greenstone belt has undergone a complex sequence of deformation that includes folding, faulting, and ductile shearing. An important geologic feature of the Abitibi greenstone belt is the occurrence of major, east-west trending ductile-brittle fault zones. The two most important fault zones in the southern part of the Abitibi greenstone belt are the Porcupine-Destor fault zone and the Larder Lake-Cadillac fault zone (Monecke et al., 2017). These faults are subvertical (70-90$^{o}$), dipping either north or south, vary in width from tens to hundreds of metres (Poulsen, 2017), and are generally marked by intense ductile-brittle deformation and penetrative fabric development.

The Larder Lake-Cadillac fault zone is the major deformation zone in the area and cuts across the Matachewan Property (Figure 3). This deformation zone can be followed west of Matachewan, Ontario to east of Val d'Or, Quebec. The deformation zone is a 250 km long, moderately to steeply dipping structure with a curvilinear trace. It dips northward or southward depending on the location along its strike. Conglomerate rocks are preserved as narrow synclines or half-synclines adjacent to the break and are also truncated by the break (Poulsen, 2017). Although the Larder Lake-Cadillac fault zone continues further west, Matachewan is the site of the of the most significant known gold deposit (Young-Davidson) along its western extent.

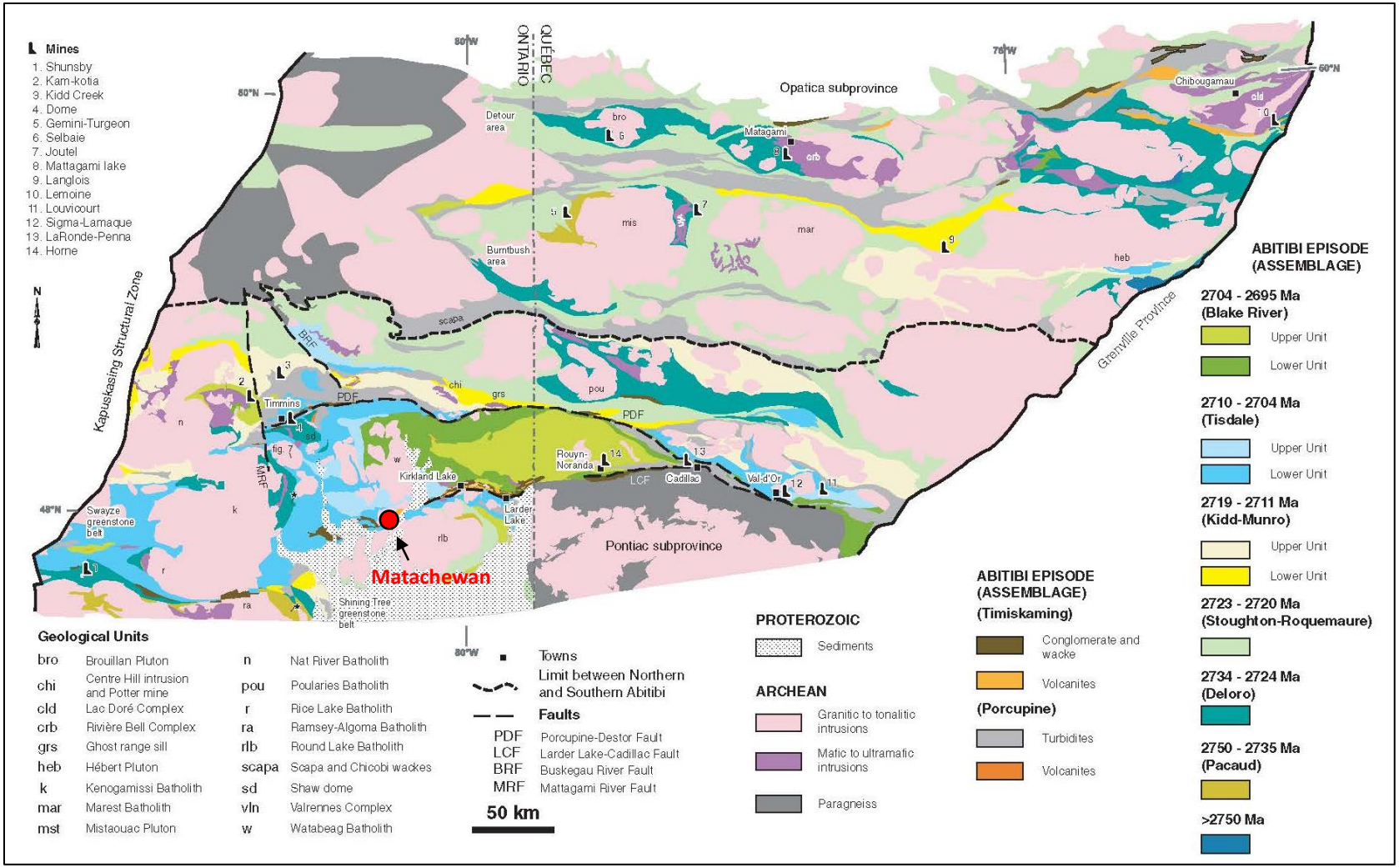


Figure 3. Geological map of the Abitibi greenstone belt with the location of the town of Matachewan modified after Thurston et al. (2008)

## 5.2 Local Geology

The Matachewan Property is located just east of the town of Matachewan and occurs in the southwest part of the Abitibi greenstone belt (Figure 3). The volcanic rocks in the Matachewan area are dominated by mafic volcanic rocks of the lower unit of the Tisdale assemblage (2710-2704 Ma; Thurston et al., 2008) and mostly occur in the central and southcentral part of the property. The lower part of the Tisdale assemblage consists of mafic tholeiitic flows with locally developed komatiite and intermediate to felsic calc-alkaline volcanic rocks, and iron formation (Thurston et al., 2008). One thin unit of ultramafic volcanic rocks is identified in the central part of the property and consists of komatiitic flows, massive flows, and flow breccias. In the property area, mafic volcanic rocks are comprised of massive tholeiitic flows, variolitic flows, brecciated flows, and basaltic pillows. Intermediate volcanic rocks and felsic volcanic rocks also occur and have been documented towards the central to southwestern part of the property, where minor chert and iron formation have been documented in contact with the felsic volcanic rocks.

Timiskaming sedimentary rocks are the youngest supracrustal assemblage in the southern Abitibi belt and formed as a successor basin (2679-2669 Ma; Monecke et al., 2017). The Timiskaming assemblage, which is dominantly composed of sedimentary rocks, includes alluvial-fluvial conglomerates, sandstones and turbidites (Thurston et al., 2008). Timiskaming rocks occur in the northwest part of the property and in a small area to the northeast. In the northwest part of the property sedimentary rocks include conglomerate to arkose and greywacke (Pamour Porcupine Mine Limited, 1981).

The volcanic and sedimentary rocks are intruded by syenitic intrusions, which occur as dikes, sills and a large pluton that are broadly contemporaneous with Timiskaming age sediments. The largest pluton in the area is the Cairo stock located in the Cairo Township. This pluton occurs in the central and eastern part of the property. Felsic intrusions in the Matachewan area are generally coarse-grained and may be porphyritic. Syenite intrusions crosscut both volcanic and sedimentary rocks. A halo of magnetite (disseminations and veinlets) is present around the Cairo stock in volcanic and Timiskaming sedimentary rocks (Larouche, 1998). The Cairo stock is magnetic and contains variable intensities of hematite alteration and to some extent potassic alteration (Larouche, 1998). Syenite stocks were also noted within the western part of the property (Pamour Porcupine Mine Limited, 1981).

Several mafic intrusive rocks occur and include peridotite, gabbro, diorite/quartz diorite, and feldspathic aplitic dikes. These are spatially associated with the volcanic rocks in the central part of the property. In the southern part of the property, a large calc-alkalic felsic to intermediate pluton occurs and continues southward off property.

The Larder Lake-Cadillac fault zone runs the length of the property and is roughly parallel with Highway 66. The volcanic, sedimentary, and intrusive rocks are deformed by the Larder Lake-Cadillac fault zone.

The volcanic, sedimentary, and igneous rocks described above are intruded by north-south trending, Paleoproterozoic age Matachewan diabase dikes (2.45 Ga; Heaman, 1997). Part of the property is overlain by Proterozoic sedimentary rocks of the Huronian Supergroup. These are fine to coarse clastic rocks of the Cobalt Group that occur in the southwest, central, and east parts of the property. The Cobalt Group sedimentary rocks overlie the Larder Lake-Cadillac fault zone in the northeast and western parts of the property.

### 4.3 Mineralization

Several mineral occurrences have been documented on the Matachewan Property. Historically, three styles of gold mineralization have been recognized, including syenite-hosted, mafic volcanic-hosted, and shear-zone hosted.

Past and present producing gold mines in the Matachewan area are mainly contained within sheared and altered syenitic rocks, mafic volcanic flow and tuffs, and Timiskaming sedimentary rocks (Bernatchez, 2005). Most of the gold mined in the Matachewan area has been mined at the Young-Davidson deposit where red altered syenite hosts pyritic veinlet and disseminated ore, which also contains minor chalcopyrite and common tourmaline (Sinclair, 1982). The volcanic-hosted deposits tend to occur in carbonate altered basalt and consist of quartz veins and irregular veinlets, which locally contain chalcopyrite, tourmaline, and scheelite (Poulsen, 2017).

## 5.0 PROSPECTING

Prospecting was conducted over the fall months of October and November. This field work was a first pass program after acquiring the property and was reconnaissance in nature. As a result, the field work was focused on prospecting in the area of the historical showings to: 1) identify and locate the historical showings; 2) evaluate their potential for future exploration; and 3) prospect around the historical showings to determine if mineralization extends past known showings. The prospecting was completed in NAD 83 Zone 17.

The prospecting work was carried out by Laura Katz, Daniel Gomez and Matchellon Pinheiro from the period of October 28 to November 1, 2022, for a total of 5 days. Daily prospecting logs are presented in Appendix B. The only instruments used during prospecting were two Garmin GPS devices and geo tools. No other instruments were used while prospecting. Prospecting samples were taken on bedrock with little to no overburden cover. Figure 4 illustrates where the prospecting work was done and shows the traverses completed. Detailed plan maps that include the sample numbers and geology can be found in Appendix C.

Some of the work occurred in and around the Biralger showing and Midrim showing areas. Other prospecting work occurred southwest of the Biralger showing to determine in mineralization continued (Figure 4). The rock types encountered include massive to foliated, dark-green, fine-grained mafic volcanic rocks and massive, pink, medium- to coarse-grained syenite. Rare conglomerates thought to be part of the Timiskaming assemblage, were also encountered. Mineralization included disseminated and vein-controlled pyrite ± chalcopyrite ± malachite in the syenite. Alteration in the mafic volcanic consisted of weak to moderate disseminated carbonate and chlorite or strong pervasive bleaching. The syenite was typically pink in colour and altered by hematite ± potassium feldspar.

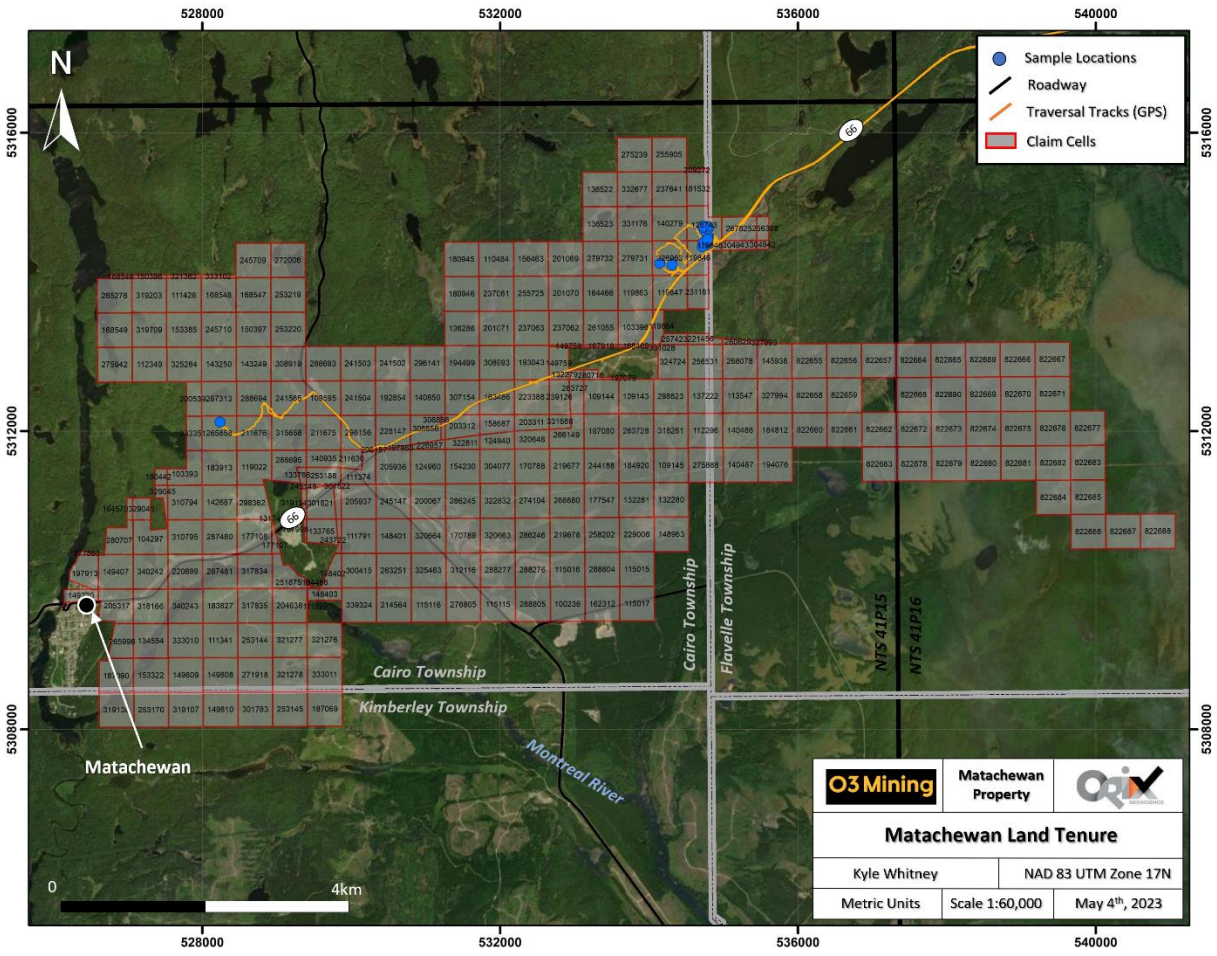


Figure 4. Plan map that shows the location of samples taken during prospecting

## 6.0 SAMPLE PREPARATION AND ANALYSES

Over the course of the 2022 field program a total of 19 grab samples, not including standards and blanks, were collected from various locations within the Property to test the presence of gold mineralization. The majority of samples were collected from Biralger area. However, several samples were taken outside of the showings where there are no known historical workings. A sample description and site location, obtained from a handheld GPS, was noted in field books and later entered into excel. A pre-numbered sampling booklet was used, and all samples collected were placed in industry standard plastic bags with the sample numbers. A description of samples and their GPS locations are presented in Table 2.

Samples awaiting shipment to Sudbury were stored in Kirkland Lake in the Senior Project Geologist's living quarters and then were directly loaded onto a truck and taken to 1300 Kelly Lake Road, Sudbury prior to being sent to the laboratory.

The samples were transported from Kirkland Lake to Sudbury via truck and all field samples were sent to ALS Geochemistry in Sudbury, Ontario. The samples were sent for fire assay and multi-element analysis. The samples were submitted to ALS Laboratory for gold analyses by fire assay method (Code Au-AA24). Samples were also submitted for multi-element analysis (Code ME-MS61L). Assay results and certificates

are presented in Appendix D. The details of the methods as well as upper and lower detection limits can be found in the ALS Service Schedule available on the ALS Global website (www.alsglobal.com).

Table 2. Summary of samples collected in the field

| Date | Sample No. | Area | Easting | Northing | Elevation | Sample | Rock Type | QV Type | QV% | Py% | Cpy% | Mal% | Au ppm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 28-Oct-22 | S125325 | Biragler | 534801 | 5314604 | 392 | Grab | Mafic volcanic | QCHLPYCPYMALV | 15 | 1 | 0.5 | 0.1 | 0.042 |
| 28-Oct-22 | S125326 | Biragler | 534785 | 5314621 | 399 | Grab | Mafic volcanic | QCBCHLCPYV | 5 | | 2 | | 0.005 |
| 28-Oct-22 | S125327 | Biragler | 534761 | 5314683 | 409 | Grab | Syenite | QV | 20 | | | | 0.023 |
| 28-Oct-22 | S125328 | Biragler | 534793 | 5314736 | 410 | Grab | Syenite | QCBCPYV | 8 | <1 | 2 | 0.5 | 0.365 |
| 29-Oct-22 | S125329 | Biragler | 534739 | 5314718 | 409 | Grab | Syenite | QV and QCPYMALV | 3 | | 0.1 | <1 | 0.158 |
| 29-Oct-22 | S125330 | Biragler | 534746 | 5314683 | 407 | Grab | Syenite | QV | 75 | | | | 0.017 |
| 30-Oct-22 | S125331 | Midrim | 528241 | 5312117 | 381 | Trench grab | Syenite | QCBCPYMALV | 5 | | 0.5 | 1 | 0.647 |
| 31-Oct-22 | S125332 | Biragler | 534797 | 5314714 | 398 | Grab | Syenite | QCBCHLCPYV | 10 | | 5 | 1 | 0.172 |
| 31-Oct-22 | S125333 | Biragler | 534788 | 5314738 | 397 | Grab | Syenite | QCPYMALV | 6 | | 3 | 0.1 | 0.613 |
| 31-Oct-22 | S125334 | Biragler | 534774 | 5314489 | 386 | Grab | Mafic volcanic | QPYV | 15 | 2 | | | 0.035 |
| 01-Nov-22 | S125335 | Biragler | 534777 | 5314528 | 384 | Grab | Mafic volcanic | QCBV | 2 | | | | 0.017 |
| 29-Oct-22 | S125336 | Biragler | 534718 | 5314469 | 384 | Grab | Mafic volcanic | PYV | 5 | 2 | | | 0.027 |
| 29-Oct-22 | S125337 | Biragler | 531728 | 5314519 | 391 | Grab | Mafic volcanic | QCBPYV | 2 | 1 | | | 0.033 |
| 29-Oct-22 | S125338 | Biragler | 534145 | 5314248 | 400 | Grab | Syenite | QV | 10 | Tr | | | <0.005 |
| 01-Nov-22 | S125339 | Biragler | 534788 | 5314548 | 383 | Grab | Mafic volcanic | QV | 10 | Tr | | | 0.012 |
| 01-Nov-22 | S125341 | Biragler | 534792 | 5314567 | 387 | Grab | Mafic volcanic | MAGV | 3 | | | | 0.007 |
| 01-Nov-22 | S125342 | Biragler | 534725 | 5314729 | 398 | Grab | Syenite | QV and QCHLCPYMALV | 10 | | 1 | 0.1 | 0.407 |
| 01-Nov-22 | S125343 | Biragler | 534729 | 5314746 | 398 | Grab | Syenite | QV | 1 | Tr | | | 0.449 |
| 01-Nov-22 | S125344 | Biragler | 534310 | 5314229 | 389 | Trench grab | Syenite | QCBV | 0.5 | | 1 | Tr | 0.049 |

## 7.0 CONCLUSIONS

The following conclusions are based on the 2022 work presented in this report. The prospecting was successful at identifying the location of Biralger and Midrim showings.

The results from the Biralger showing confirm gold mineralization at the historical outcrops (i.e., up to 0.613 ppm). The assay results show that anomalous gold mineralization can be associated with syenite, particularly in association with sulphide mineralization and the presence of veins or veinlets. Prospecting west of the Biralger showing did not locate anomalous gold mineralization.

The Midrim area contained an historical trench with anomalous gold mineralization (i.e., 0.647 ppm) in a syenite with sulphides and veinlets.

## 8.0 RECOMMENDATIONS

The Matachewan Property is considered to be at an early stage of exploration and a multifaceted exploration program is recommended. Recommended work includes prospecting and geological mapping in areas of historical workings, including areas that were not visited during the 2022 exploration program due to time constraints.

Given the known deposits in the area (i.e., Young-Davidson Mine and Ashley Mine) have features that are consistent with syenite-associated deposit types (Robert, 2001), it is recommended that the known syenitic bodies and their surrounding volcanic or sedimentary rocks be prospected. It is likely that small syenite intrusions occur on both properties that have not yet been delineated. Therefore, a property-scale prospecting/mapping program is recommended.

Airborne magnetic surveys on select showing are also recommended, which should be followed up by a detailed structural interpretation. Diamond drill testing of targets should follow surface exploration.

## 9.0 REFERENCES

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## 10.0 STATEMENT OF QUALIFICATIONS

I, Laura Katz, do hereby certify that:

1) I am a Senior Project Geologist at Orix Geoscience Inc. and have worked at Orix since October 2020.

2) I graduated with an Honours B.Sc. Earth Sciences from Carleton University in 2011. I completed a Ph.D. in Mineral Deposits and Precambrian Geology at Laurentian University in 2016.

3) I am a practising member in good standing with the Association of Professional Geoscientists of Ontario (Member Number 2823).

4) I have been practicing in my profession as a geologist since 2017.

5) The report is true and accurate to the best of my knowledge. The report includes information that was gathered from various sources, such as assessment files, publications, and contractor-provided information.

6) I am responsible for the writing of the '2022 Prospecting Exploration Program on the Matachewan Property'.

7) I planned and oversaw the field work covered in this report.

8) I have no personal interest in the property covered by this report.

Signed and dated this May 8, 2023, in Sudbury Ontario

Laura Katz

Laura Katz, Ph.D., P.Geo.
Senior Project Geologist
Orix Geoscience 2018 Inc.

I, Kyle Whitney, do hereby certify that:

1) I am a Project Geologist at Orix Geoscience Inc. and have worked at Orix since September 2015.

1) I graduated with an Honours B.Sc. Earth Sciences from Carleton University in 2013.

2) I am a practising member in good standing with the Association of Professional Geoscientists of Ontario (Member Number 3296).

3) I have been practising in my profession as a geologist since 2020.

4) The report is true and accurate to the best of my knowledge. The report includes information that was gathered from various sources, such as assessment files, publications, and contractor-provided information.

5) I am responsible for the writing of the '2022 Prospecting Exploration Program on the Wydee Property'.

6) I have no personal interest in the property covered by this report.

Signed and dated this May 8, 2023, in Sudbury Ontario

Kyle Whitney, B.Sc., P.Geo.
Project Geologist
Orix Geoscience 2018 Inc.

# Appendix A

Legend of Abbreviations

Table A: List of Abbreviations and Symbols

| Symbol | Description |
|---|---|
| ***Scientific Abbreviations*** | |
| km | Kilometre |
| cm | Centimetre |
| m | Metres |
| mm | Millometre |
| ° | Degrees |
| °C | Degrees celsius |
| % | Percent |
| ppm | Parts per million |
| ***Other Abbreviations*** | |
| Inc. | Incorporated |
| NAD | North American Datum |
| NTS | National topographic system |
| < | Less than |
| SCMC | Single cell mining claim |
| BCMC | Boundary cell mining claim |
| No. | Number |

| Symbol | Description |
|---|---|
| ***Geology Abbreviations*** | |
| Cpy | Chalcopyrite |
| Ma | Millions years |
| Mal | Malachite |
| Py | Pyrite |
| MAGV | Magnetite vein |
| PYV | Pyrite vein |
| QCBCHLCPYV | Quartz-chlorite vein |
| QCBCPYMALV | Quartz-carbonate-chalcopyrite-malachite vein |
| QCBCPYV | Quartz-carbonate-pyrite vein |
| QCBPYV | Quartz-carbonate-pyrite vein |
| QCBV | Quartz-carbonate-biotite vein |
| QCHLCPYMALV | Quartz-chlorite-pyrite vein |
| QCHLPYCPYMALV | Quartz-chlorite-pyrite-chalcopyrite-malachite vein |
| QCPYMALV | Quartz-chalcopyrite-malachite vein |
| QPYV | Quartz-pyrite vein |
| QV | Quartz vein |

## Appendix B

Daily Prospecting Log

Table B: Daily Prospecting Log

| Date | Personnel | Plan | Work Conducted | Samples Collected | Outcrops Encountered |
|---|---|---|---|---|---|
| 2022-10-28 | Laura Katz, Matchellon Pinheiro and Daniel Gomez | Travel to Biralger showing to determine location | Went to the Biralger showing to determine its location, extent and take samples | S125325-S125328 | Mafic volcanic rocks, syenite |
| 2022-10-29 | Laura Katz | Travel to Biralger area | Went to the Biralger showing and exposed outcrops/trenches that were buried by overburden | S125329, S125330 | Mafic volcanic rocks, syenite |
| | Matchellon Pinero and Daniel Gomez | Traverse west of the known mineralized Biralger outcrops | Prospected west of the Biralger showing to determine if mineralization continued west from the historical trenches | S125336-S125338 | Mafic volcanic rocks, syenite |
| 2022-10-30 | Laura Katz, Matchellon Pinheiro and Daniel Gomez | Travel to Midrim area to ensure access is possible | Went to the Midrim area and found historical trench | S125331 | Syenite |
| 2022-10-31 | Laura Katz, Matchellon Pinheiro and Daniel Gomez | Went traversing around the Biralger showing | Went south and northeast of the Biralger showing to determine if mineralization continued in other rocks types and along a northeasterly trend | S125332-S125334 | Mafic volcanic rocks, syenite |
| 2022-11-01 | Laura Katz, Matchellon Pinheiro and Daniel Gomez | Went traversing around the Biralger showing | Went south and northeast of the Biralger showing to determine if mineralization continued in other rocks types and along a northeasterly trend | S125335, S125339, S125341- S125344 | Mafic volcanic rocks, syenite |
| 2022-11-02 | Laura Katz, Matchellon Pinheiro and Daniel Gomez | Travel from Kirkland Lake to Sudbury and to Toronto | Drove from Kirkland Lake to Sudbury and then Sudbury to Toronto | N/A | N/A |

# Appendix C

Location Maps of Samples

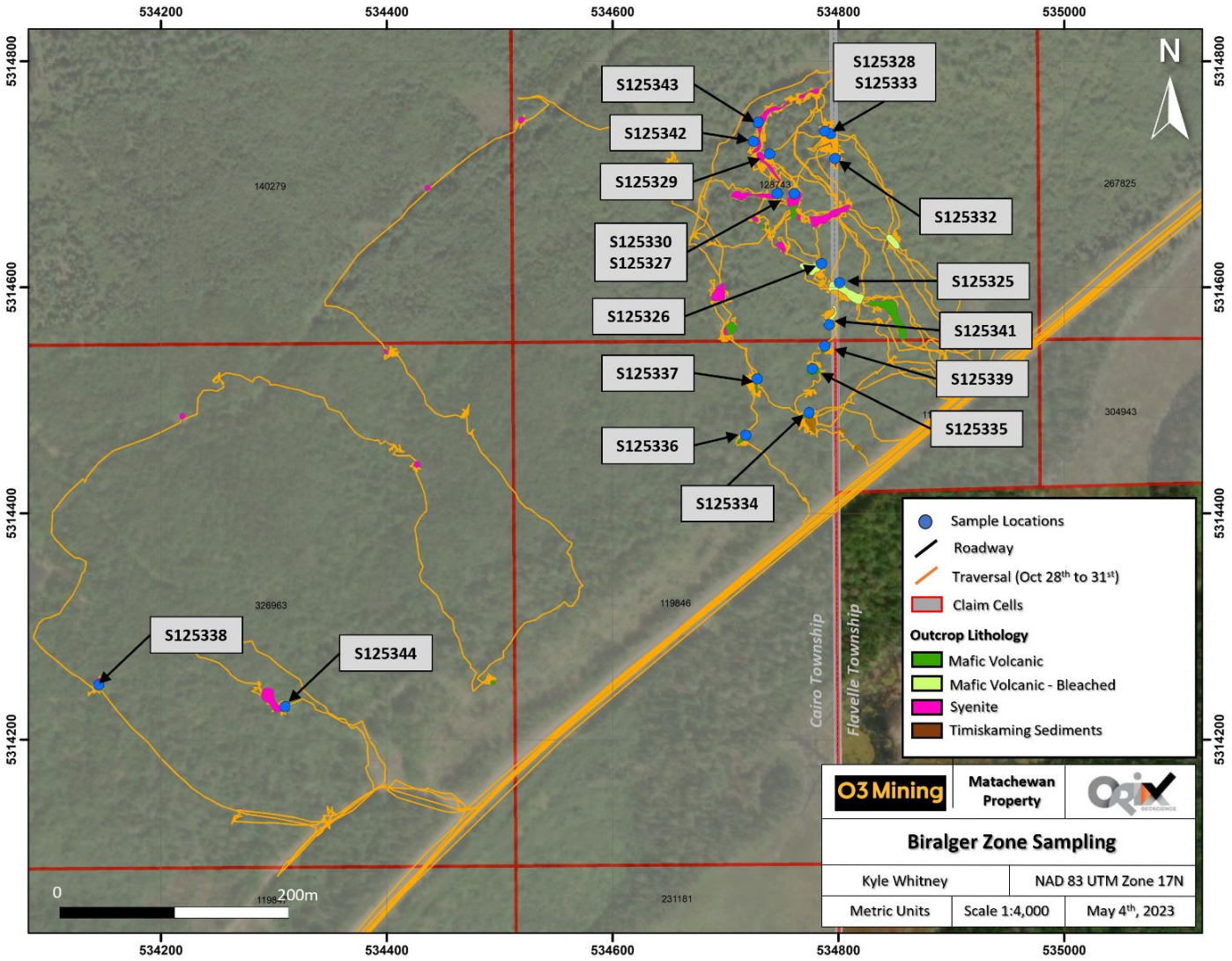


Figure C1: Sample location map of the Biralger area

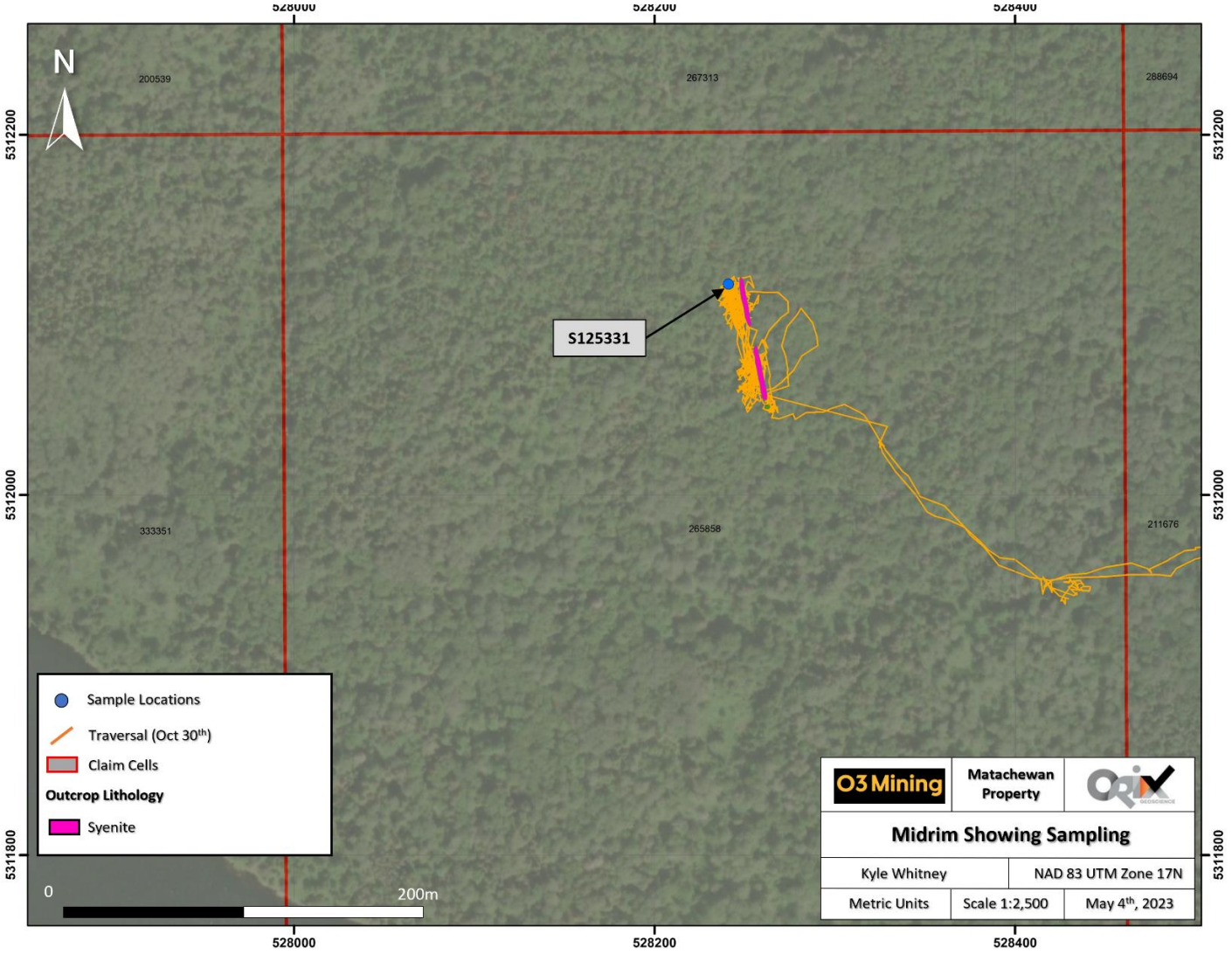


Figure C2: Sample location map of the Midrim showing

# Appendix D

Assay Certificates

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Finalized Date: 30-NOV-2022
Account: OSIFCIDH

# SD22323352

Project: Matachewan-Wydee

P.O. No.: 00103-2022

This report is for 45 samples of Rock submitted to our lab in Sudbury, ON, Canada on 9-NOV-2022.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| LOUIS GARIEPY<br>CORPORATIF WEBTRIEVE O3 MINING | LAURA KATZ | NEVENA NOVAKOVIC |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| PUL-QC | Pulverizing QC Test |
| LOG-22 | Sample login - Rcd w/o BarCode |
| CRU-31 | Fine crushing - 70% <2mm |
| SPL-21 | Split sample - riffle splitter |
| PUL-31 | Pulverize up to 250g 85% <75 um |
| LOG-23 | Pulp Login - Rcvd with Barcode |
| DISP-01 | Disposal of all sample fractions |
| CRU-QC | Crushing QC Test |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| Au-AA24 | Au 50g FA AA finish | AAS |
| ME-MS61 | 48 element four acid ICP-MS | |

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, Director, North Vancouver Operations

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Finalized Date: 30-NOV-2022
Account: OSIFCIDH

Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | WEI-21 | CRU-QC | PUL-QC | Au-AA24 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Pass2mm | Pass75um | Au | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr |
| | Units | kg | % | % | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | LOD | 0.02 | 0.01 | 0.01 | 0.005 | 0.01 | 0.01 | 0.2 | 10 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 |
| S125301 | | 1.03 | 70.9 | 92.5 | <0.005 | 0.02 | 7.33 | 1.3 | 130 | 0.54 | 0.01 | 4.39 | 0.04 | 18.60 | 38.0 | 194 |
| S125302 | | 2.53 | | 92.2 | <0.005 | 0.02 | 6.84 | 2.8 | 50 | 0.56 | 0.02 | 4.04 | 0.03 | 10.30 | 35.8 | 184 |
| S125303 | | 0.82 | | | <0.005 | 0.02 | 7.24 | 1.9 | 180 | 0.45 | 0.10 | 0.35 | 0.08 | 20.4 | 7.7 | 16 |
| S125304 | | 1.49 | | | <0.005 | 0.03 | 5.83 | 1.9 | 210 | 1.55 | 0.32 | 5.34 | 0.10 | 10.35 | 40.8 | 113 |
| S125305 | | 0.99 | | 94.1 | <0.005 | 0.02 | 6.48 | 3.7 | 100 | 0.94 | 0.05 | 5.84 | 0.07 | 13.90 | 31.8 | 179 |
| S125306 | | 0.87 | | 97.7 | <0.005 | 0.02 | 6.36 | 2.0 | 150 | 1.78 | 0.11 | 2.73 | 0.06 | 30.1 | 6.3 | 73 |
| S125307 | | 1.77 | | | 1.410 | 3.31 | 6.14 | 3.4 | 40 | 3.02 | 0.71 | 7.67 | 0.09 | 49.8 | 22.1 | 49 |
| S125308 | | 1.06 | | | 0.090 | 0.32 | 7.28 | 3.5 | 650 | 1.96 | 0.39 | 4.37 | 0.09 | 9.25 | 54.1 | 183 |
| S125309 | | 1.78 | | | 2.60 | 0.38 | 8.77 | 1.9 | 220 | 2.15 | 0.74 | 1.81 | 0.05 | 22.7 | 10.4 | 13 |
| S125310 | | 0.65 | | | 0.041 | 0.14 | 6.82 | 5.4 | 50 | 2.07 | 0.18 | 6.03 | 0.13 | 5.59 | 45.9 | 56 |
| S125311 | | 0.83 | | | 0.008 | 0.01 | 6.13 | 2.8 | 420 | 0.19 | 0.01 | 5.04 | 0.13 | 5.31 | 32.1 | 74 |
| S125312 | | 0.76 | | | 0.013 | 0.04 | 4.87 | 1.4 | 1050 | 1.69 | 0.11 | 1.48 | 0.09 | 85.5 | 7.0 | 35 |
| S125313 | | 1.34 | | | <0.005 | 0.08 | 7.01 | 0.4 | 90 | 0.28 | 0.23 | 7.08 | 0.06 | 7.41 | 47.9 | 74 |
| S125314 | | 1.16 | | | 0.630 | 4.74 | 1.62 | 0.3 | 170 | 0.33 | 11.10 | 0.87 | 0.45 | 9.34 | 9.7 | 52 |
| S125315 | | 1.41 | | | 0.750 | 0.73 | 0.64 | <0.2 | 30 | 0.14 | 1.24 | 0.03 | 0.03 | 1.10 | 3.0 | 53 |
| S125316 | | 1.40 | | 95.1 | 0.005 | 0.09 | 7.13 | 0.9 | 50 | 0.62 | 0.22 | 7.42 | 0.11 | 8.14 | 55.9 | 84 |
| S125317 | | 0.92 | | 96.5 | 0.599 | 0.46 | 0.33 | 0.9 | 90 | 0.17 | 1.04 | 0.20 | 0.10 | 0.49 | 3.5 | 54 |
| S125318 | | 1.42 | | | <0.005 | 0.05 | 7.11 | 1.0 | 140 | 0.60 | 0.15 | 6.06 | 0.07 | 14.40 | 48.8 | 46 |
| S125319 | | 0.94 | | | <0.005 | 0.14 | 4.79 | 7.6 | 120 | 0.10 | 0.63 | 6.64 | 0.12 | 3.92 | 76.7 | 61 |
| S125320 | | 0.06 | | | 0.214 | 0.34 | 7.80 | 36.0 | 790 | 2.76 | 0.57 | 1.13 | 0.28 | 88.4 | 33.4 | 117 |
| S125321 | | 0.91 | | | 0.439 | 0.07 | 0.88 | 0.8 | 40 | 0.55 | 0.22 | 0.22 | 0.07 | 0.78 | 7.2 | 57 |
| S125322 | | 1.81 | | | 0.021 | 3.45 | 4.65 | 1.8 | 130 | 1.02 | 9.13 | 1.17 | 0.08 | 13.60 | 27.1 | 48 |
| S125323 | | 1.29 | | | 0.008 | 0.19 | 4.28 | 1.9 | 150 | 1.06 | 0.76 | 1.60 | 0.06 | 18.10 | 20.0 | 28 |
| S125324 | | 1.05 | | | <0.005 | 0.13 | 4.81 | 0.8 | 40 | 0.31 | 0.59 | 3.38 | 0.11 | 11.70 | 34.2 | 18 |
| S125325 | | 1.11 | | | 0.042 | 0.33 | 7.14 | 6.5 | 1440 | 4.26 | 0.20 | 1.99 | 0.06 | 159.0 | 37.8 | 79 |
| S125326 | | 1.14 | | | 0.005 | 0.06 | 7.42 | 2.8 | 650 | 9.79 | 0.11 | 0.32 | <0.02 | 66.8 | 37.5 | 17 |
| S125327 | | 0.50 | | | 0.023 | 0.54 | 7.14 | 8.6 | 1960 | 1.29 | 0.60 | 0.40 | 0.04 | 55.2 | 6.5 | 66 |
| S125328 | | 1.32 | | | 0.365 | 4.73 | 3.68 | 6.4 | 490 | 1.55 | 3.09 | 1.19 | 0.04 | 22.8 | 24.2 | 65 |
| S125329 | | 0.85 | | | 0.158 | 1.32 | 6.87 | 9.2 | 1250 | 1.47 | 1.36 | 0.64 | 0.04 | 62.9 | 15.9 | 57 |
| S125330 | | 1.03 | | 96.2 | 0.017 | 1.22 | 1.02 | 7.0 | 380 | 0.36 | 0.60 | 0.26 | 0.06 | 83.8 | 3.4 | 38 |
| S125331 | | 1.64 | | 93.7 | 0.647 | 35.3 | 6.66 | 1.5 | 910 | 4.72 | 28.8 | 0.44 | 0.03 | 99.4 | 2.6 | 31 |
| S125332 | | 0.74 | | | 0.172 | 2.57 | 4.94 | 8.2 | 430 | 0.91 | 1.26 | 1.10 | 0.05 | 13.60 | 8.1 | 51 |
| S125333 | | 1.13 | | | 0.613 | 3.42 | 6.10 | 12.8 | 1540 | 2.42 | 0.72 | 2.31 | 0.05 | 76.2 | 10.5 | 49 |
| S125334 | | 1.24 | | | 0.035 | 0.23 | 6.97 | 53.7 | 360 | 3.88 | 3.53 | 2.37 | 0.13 | 21.9 | 162.5 | 93 |
| S125335 | | 1.49 | | | 0.017 | 0.07 | 6.69 | 5.4 | 500 | 5.32 | 0.17 | 2.59 | 0.16 | 29.0 | 23.6 | 11 |
| S125336 | | 2.17 | | | 0.027 | 0.35 | 6.81 | 9.4 | 170 | 5.82 | 3.00 | 0.13 | <0.02 | 62.7 | 60.3 | 13 |
| S125337 | | 1.27 | | | 0.033 | 0.93 | 5.95 | 9.9 | 390 | 4.70 | 3.29 | 3.10 | 0.03 | 141.0 | 70.3 | 11 |
| S125338 | | 0.67 | | | <0.005 | 0.04 | 7.00 | 2.7 | 3190 | 3.58 | 0.10 | 0.50 | 0.13 | 110.0 | 3.6 | 41 |
| S125339 | | 1.37 | | | 0.012 | 0.12 | 7.50 | 6.6 | 290 | 3.17 | 0.82 | 0.21 | 0.02 | 14.35 | 45.6 | 15 |
| S125340 | | 0.51 | | | <0.005 | 0.02 | 0.21 | 1.9 | 80 | 0.10 | 0.02 | 0.01 | <0.02 | 4.95 | 0.5 | 30 |

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30-NOV-2022
Account: OSIFCIDH

Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cs | Cu | Fe | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| | Units | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| | LOD | 0.05 | 0.2 | 0.01 | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.2 | 0.01 | 5 | 0.05 | 0.01 | 0.1 |
| S125301 | | 0.67 | 53.5 | 9.33 | 18.75 | 0.07 | 1.8 | 0.083 | 0.32 | 6.5 | 20.7 | 3.63 | 1400 | 0.80 | 2.25 | 4.4 |
| S125302 | | 1.27 | 52.8 | 9.45 | 18.15 | 0.08 | 1.2 | 0.087 | 0.36 | 2.8 | 38.5 | 3.57 | 1190 | 0.40 | 1.47 | 3.9 |
| S125303 | | 0.72 | 4.6 | 2.67 | 14.60 | 0.17 | 3.5 | 0.020 | 0.79 | 9.9 | 5.0 | 0.72 | 325 | 0.98 | 4.12 | 4.1 |
| S125304 | | 1.80 | 123.5 | 8.24 | 14.05 | 0.08 | 0.9 | 0.052 | 1.66 | 3.6 | 7.5 | 3.22 | 1785 | 12.70 | 1.90 | 1.5 |
| S125305 | | 1.08 | 37.7 | 7.76 | 15.65 | 0.08 | 0.8 | 0.063 | 0.80 | 4.4 | 18.4 | 2.99 | 1395 | 0.95 | 2.80 | 3.0 |
| S125306 | | 0.34 | 214 | 2.22 | 16.25 | 0.19 | 2.5 | 0.034 | 0.25 | 8.9 | 0.9 | 0.82 | 508 | 0.70 | 5.44 | 7.0 |
| S125307 | | 0.58 | 6.9 | 5.78 | 19.35 | 0.07 | 2.2 | 0.050 | 0.10 | 21.4 | 15.2 | 2.28 | 1045 | 7.32 | 3.93 | 1.9 |
| S125308 | | 1.36 | 123.5 | 7.82 | 18.55 | 0.06 | 0.8 | 0.052 | 0.97 | 3.6 | 14.4 | 1.70 | 1080 | 10.00 | 5.05 | 1.5 |
| S125309 | | 3.59 | 8.1 | 2.97 | 35.4 | 0.16 | 2.7 | 0.097 | 1.98 | 10.7 | 10.2 | 1.24 | 639 | 29.1 | 4.32 | 1.7 |
| S125310 | | 0.41 | 136.0 | 6.62 | 14.15 | 0.09 | 0.7 | 0.059 | 0.10 | 2.3 | 11.8 | 2.52 | 1665 | 4.84 | 4.25 | 1.5 |
| S125311 | | 1.66 | 149.0 | 7.80 | 14.50 | 0.06 | 0.8 | 0.052 | 2.13 | 1.9 | 34.7 | 3.73 | 1310 | 0.22 | 0.30 | 0.9 |
| S125312 | | 1.35 | 34.7 | 2.76 | 11.25 | 0.20 | 2.4 | 0.031 | 1.35 | 39.6 | 4.4 | 0.57 | 739 | 1.33 | 2.01 | 3.4 |
| S125313 | | 0.95 | 124.0 | 10.65 | 16.10 | 0.09 | 1.0 | 0.063 | 0.35 | 2.4 | 18.9 | 4.19 | 1665 | 3.94 | 1.56 | 1.9 |
| S125314 | | 0.54 | 165.0 | 2.87 | 4.73 | <0.05 | 0.5 | 0.019 | 1.69 | 3.5 | 4.7 | 0.27 | 259 | 575 | 0.28 | 2.7 |
| S125315 | | 0.22 | 17.0 | 1.25 | 1.68 | <0.05 | 0.1 | 0.006 | 0.46 | 0.5 | 8.4 | 0.15 | 108 | 38.4 | 0.11 | 0.6 |
| S125316 | | 1.51 | 331 | 10.40 | 17.10 | 0.08 | 1.0 | 0.101 | 0.56 | 2.7 | 25.9 | 3.49 | 1610 | 4.34 | 1.34 | 2.0 |
| S125317 | | 0.36 | 12.2 | 0.94 | 1.03 | 0.05 | <0.1 | 0.007 | 0.15 | <0.5 | 9.9 | 0.13 | 108 | 8.69 | 0.08 | 0.1 |
| S125318 | | 1.25 | 90.2 | 11.45 | 20.8 | 0.06 | 1.9 | 0.105 | 0.43 | 4.8 | 15.5 | 2.45 | 2140 | 5.06 | 2.15 | 4.1 |
| S125319 | | 0.20 | 436 | 8.61 | 17.60 | <0.05 | 0.5 | 0.076 | 0.07 | 1.5 | 8.5 | 1.63 | 1045 | 3.20 | 0.27 | 1.1 |
| S125320 | | 10.75 | 90.1 | 4.22 | 20.1 | 0.15 | 3.8 | 0.083 | 2.97 | 44.5 | 36.0 | 0.99 | 505 | 0.68 | 0.42 | 12.8 |
| S125321 | | 0.96 | 26.0 | 1.62 | 2.15 | <0.05 | 0.1 | 0.008 | 0.39 | <0.5 | 13.8 | 0.34 | 222 | 5.82 | 0.02 | 0.3 |
| S125322 | | 0.98 | 71.8 | 9.29 | 16.75 | 0.08 | 1.4 | 0.072 | 1.25 | 5.2 | 12.9 | 1.16 | 764 | 406 | 2.03 | 7.2 |
| S125323 | | 0.74 | 25.6 | 8.38 | 17.45 | 0.07 | 1.5 | 0.074 | 0.59 | 6.5 | 21.9 | 1.56 | 1055 | 11.30 | 2.04 | 4.4 |
| S125324 | | 1.43 | 74.3 | 8.84 | 13.75 | 0.06 | 0.9 | 0.079 | 0.10 | 4.1 | 15.5 | 1.81 | 1275 | 2.74 | 1.33 | 3.0 |
| S125325 | | 9.46 | 827 | 6.14 | 21.7 | 0.19 | 5.7 | 0.123 | 2.33 | 81.9 | 41.0 | 0.86 | 653 | 1.87 | 2.57 | 1.9 |
| S125326 | | 14.80 | 330 | 10.10 | 22.9 | 0.11 | 2.8 | 0.081 | 1.92 | 52.2 | 42.0 | 2.26 | 617 | 11.55 | 2.14 | 0.8 |
| S125327 | | 1.70 | 81.2 | 2.62 | 18.50 | 0.13 | 3.7 | 0.010 | 3.84 | 28.5 | 13.0 | 0.70 | 210 | 5.70 | 3.11 | 1.3 |
| S125328 | | 2.91 | 5610 | 4.76 | 10.50 | 0.09 | 1.0 | 0.079 | 0.45 | 12.5 | 34.2 | 1.44 | 526 | 9.59 | 1.87 | 1.3 |
| S125329 | | 1.31 | 3120 | 2.10 | 18.25 | 0.17 | 4.7 | 0.050 | 4.38 | 50.8 | 10.3 | 0.52 | 240 | 4.83 | 2.88 | 3.0 |
| S125330 | | 0.57 | 351 | 1.09 | 3.15 | 0.10 | 0.7 | 0.010 | 0.77 | 52.7 | 4.8 | 0.19 | 166 | 10.75 | 0.26 | 0.6 |
| S125331 | | 2.16 | 9270 | 1.29 | 21.5 | 0.16 | 7.8 | 0.017 | 4.02 | 63.8 | 12.1 | 0.18 | 133 | 4.26 | 3.36 | 11.6 |
| S125332 | | 0.70 | 5100 | 1.88 | 12.85 | 0.11 | 3.0 | 0.070 | 1.12 | 6.2 | 6.8 | 0.34 | 303 | 10.30 | 3.22 | 1.8 |
| S125333 | | 2.27 | 2440 | 2.48 | 16.70 | 0.17 | 4.1 | 0.060 | 2.46 | 31.1 | 17.8 | 0.37 | 543 | 4.96 | 3.59 | 2.3 |
| S125334 | | 18.90 | 156.5 | 11.65 | 15.50 | 0.11 | 1.9 | 0.067 | 1.73 | 13.7 | 25.5 | 1.53 | 1490 | 10.20 | 2.41 | 0.7 |
| S125335 | | 12.45 | 171.0 | 10.30 | 18.95 | 0.09 | 2.4 | 0.096 | 0.86 | 20.0 | 25.6 | 1.06 | 2260 | 12.65 | 3.69 | 1.1 |
| S125336 | | 17.50 | 393 | 12.70 | 19.45 | 0.11 | 2.7 | 0.102 | 1.89 | 52.0 | 50.2 | 1.92 | 1180 | 67.5 | 1.13 | 0.7 |
| S125337 | | 5.21 | 272 | 9.63 | 18.60 | 0.15 | 2.4 | 0.090 | 1.00 | 124.5 | 37.4 | 1.84 | 3390 | 91.4 | 1.91 | 1.1 |
| S125338 | | 2.59 | 75.5 | 1.50 | 18.45 | 0.17 | 4.8 | 0.033 | 5.30 | 60.1 | 12.2 | 0.31 | 322 | 5.09 | 2.77 | 9.1 |
| S125339 | | 4.85 | 92.9 | 8.71 | 20.2 | 0.11 | 2.3 | 0.046 | 0.42 | 6.4 | 14.5 | 0.39 | 419 | 14.05 | 5.28 | 0.9 |
| S125340 | | 0.19 | 2.5 | 0.41 | 0.58 | 0.06 | 0.9 | <0.005 | 0.06 | 2.7 | 7.2 | 0.01 | 48 | 2.46 | 0.05 | 0.7 |

***** See Appendix Page for comments regarding this certificate *****

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To: O3 MINING INC.
155 UNIVERSITY AVENUE
SUITE 1440
TORONTO ON M5H 3B7


Finalized Date: 30-NOV-2022
Account: OSIFCIDH

Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | Units | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | LOD | 0.2 | 10 | 0.5 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 1 | 0.2 | 0.2 | 0.05 | 0.05 | 0.01 | 0.005 |
| S125301 | | 83.7 | 920 | 1.1 | 10.4 | <0.002 | 0.09 | 0.09 | 36.4 | 1 | 0.9 | 83.3 | 0.29 | <0.05 | 0.42 | 0.894 |
| S125302 | | 74.0 | 850 | 0.7 | 22.9 | <0.002 | 0.11 | 0.26 | 32.2 | 1 | 0.8 | 36.7 | 0.26 | <0.05 | 0.40 | 0.810 |
| S125303 | | 12.6 | 350 | 2.4 | 31.9 | <0.002 | 0.06 | 0.16 | 6.5 | 1 | 0.8 | 56.8 | 0.39 | <0.05 | 2.49 | 0.242 |
| S125304 | | 97.4 | 280 | 3.1 | 68.5 | 0.005 | 0.30 | 0.68 | 37.2 | 2 | 0.4 | 188.5 | 0.10 | 0.10 | 0.30 | 0.409 |
| S125305 | | 81.2 | 740 | 1.3 | 31.4 | <0.002 | 0.19 | 0.93 | 30.2 | 1 | 0.6 | 123.0 | 0.20 | 0.06 | 0.32 | 0.655 |
| S125306 | | 19.7 | 230 | 4.9 | 8.1 | <0.002 | 0.09 | 0.67 | 14.1 | 1 | 0.5 | 134.0 | 0.33 | <0.05 | 0.37 | 0.307 |
| S125307 | | 39.1 | 1950 | 10.6 | 1.9 | <0.002 | 3.16 | 0.35 | 21.7 | 2 | 0.6 | 427 | 0.13 | 5.73 | 2.15 | 0.314 |
| S125308 | | 99.9 | 390 | 7.5 | 20.9 | 0.002 | 1.74 | 0.75 | 37.1 | 3 | 0.5 | 453 | 0.10 | 3.35 | 0.19 | 0.454 |
| S125309 | | 20.6 | 1180 | 4.7 | 75.2 | <0.002 | 1.15 | 0.83 | 7.0 | 2 | 0.6 | 103.5 | 0.15 | 0.81 | 1.12 | 0.123 |
| S125310 | | 80.2 | 390 | 4.1 | 2.2 | <0.002 | 0.98 | 0.37 | 42.4 | 2 | 0.5 | 348 | 0.10 | 0.92 | 0.14 | 0.624 |
| S125311 | | 85.9 | 150 | 1.0 | 88.9 | <0.002 | 0.07 | 0.59 | 43.1 | 2 | 0.6 | 281 | 0.08 | 0.06 | 0.18 | 0.359 |
| S125312 | | 12.6 | 910 | 6.0 | 58.1 | <0.002 | 0.03 | 0.68 | 6.4 | 1 | 0.6 | 281 | 0.23 | <0.05 | 4.73 | 0.152 |
| S125313 | | 78.6 | 310 | 2.9 | 10.6 | 0.003 | 0.48 | 0.26 | 45.9 | 2 | 0.6 | 96.7 | 0.12 | 0.05 | 0.18 | 0.707 |
| S125314 | | 12.4 | 230 | 482 | 35.1 | 0.429 | 2.03 | 0.17 | 4.9 | 3 | 0.7 | 48.0 | 0.11 | 5.22 | 0.18 | 0.191 |
| S125315 | | 5.7 | 40 | 33.9 | 13.3 | 0.004 | 0.20 | 0.13 | 2.2 | 1 | 0.2 | 4.6 | <0.05 | 1.87 | 0.06 | 0.047 |
| S125316 | | 89.3 | 310 | 4.5 | 28.6 | 0.002 | 0.53 | 0.11 | 46.3 | 2 | 2.1 | 231 | 0.12 | 0.11 | 0.19 | 0.713 |
| S125317 | | 6.8 | 60 | 48.3 | 3.8 | 0.002 | 0.25 | 0.44 | 1.5 | <1 | <0.2 | 4.4 | <0.05 | 1.59 | <0.01 | 0.017 |
| S125318 | | 50.1 | 590 | 3.9 | 21.8 | 0.003 | 0.21 | 0.16 | 46.5 | 1 | 0.9 | 149.0 | 0.26 | 0.06 | 0.37 | 1.090 |
| S125319 | | 44.3 | 180 | 4.3 | 2.7 | 0.002 | 1.56 | 0.19 | 23.3 | 3 | 0.4 | 359 | 0.06 | 0.35 | 0.09 | 0.360 |
| S125320 | | 84.1 | 450 | 39.0 | 188.5 | <0.002 | 0.13 | 11.55 | 15.0 | 1 | 3.9 | 47.3 | 0.91 | 0.25 | 15.35 | 0.364 |
| S125321 | | 10.9 | 30 | 8.9 | 16.8 | <0.002 | 0.28 | 0.25 | 4.6 | 1 | <0.2 | 8.6 | <0.05 | 1.04 | 0.05 | 0.075 |
| S125322 | | 21.2 | 870 | 219 | 43.3 | 0.155 | 3.48 | 0.10 | 24.8 | 4 | 1.4 | 62.5 | 0.21 | 1.76 | 0.37 | 0.683 |
| S125323 | | 6.7 | 770 | 19.2 | 21.1 | 0.004 | 0.29 | 0.09 | 27.0 | <1 | 0.8 | 68.0 | 0.21 | 0.14 | 0.35 | 0.727 |
| S125324 | | 18.5 | 410 | 2.4 | 4.5 | <0.002 | 0.46 | 0.16 | 32.5 | 1 | 0.6 | 69.5 | 0.19 | 0.25 | 0.30 | 0.774 |
| S125325 | | 64.8 | 2170 | 9.0 | 156.5 | <0.002 | 0.25 | 0.53 | 19.7 | <1 | 1.9 | 309 | 0.08 | 0.05 | 11.20 | 0.165 |
| S125326 | | 49.1 | 740 | 2.1 | 161.0 | 0.005 | 0.05 | 0.53 | 47.6 | <1 | 1.0 | 54.8 | 0.06 | <0.05 | 0.74 | 0.211 |
| S125327 | | 31.3 | 1540 | 8.2 | 92.7 | 0.003 | 0.04 | 0.57 | 5.0 | 2 | 0.7 | 331 | 0.08 | 0.17 | 9.63 | 0.085 |
| S125328 | | 38.4 | 240 | 14.6 | 32.2 | 0.005 | 0.39 | 0.33 | 21.5 | 2 | 1.4 | 87.5 | <0.05 | 0.51 | 1.42 | 0.180 |
| S125329 | | 23.1 | 710 | 14.1 | 112.0 | 0.004 | 0.18 | 0.60 | 4.2 | 1 | 1.0 | 278 | 0.18 | 0.13 | 13.55 | 0.113 |
| S125330 | | 11.4 | 590 | 12.4 | 21.3 | 0.007 | 0.07 | 0.57 | 0.9 | <1 | 0.2 | 83.0 | <0.05 | 0.07 | 4.05 | 0.023 |
| S125331 | | 8.1 | 370 | 25.0 | 161.0 | 0.002 | 0.34 | 0.80 | 1.7 | 5 | 1.0 | 131.5 | 0.63 | 0.82 | 39.6 | 0.097 |
| S125332 | | 17.5 | 310 | 8.9 | 28.8 | 0.003 | 0.52 | 0.49 | 3.9 | 2 | 0.5 | 176.0 | 0.12 | 0.22 | 6.70 | 0.063 |
| S125333 | | 18.9 | 580 | 11.0 | 56.3 | 0.003 | 0.23 | 0.50 | 7.2 | 1 | 1.1 | 374 | 0.13 | 0.06 | 6.69 | 0.076 |
| S125334 | | 146.5 | 440 | 9.7 | 108.0 | 0.014 | 3.92 | 0.72 | 43.5 | 3 | 0.5 | 122.0 | 0.05 | 0.90 | 0.34 | 0.161 |
| S125335 | | 26.5 | 540 | 9.4 | 79.1 | 0.011 | 0.09 | 0.47 | 39.1 | 2 | 0.5 | 209 | 0.07 | <0.05 | 0.44 | 0.238 |
| S125336 | | 39.1 | 550 | 12.8 | 175.0 | 0.122 | 3.12 | 0.73 | 49.6 | 3 | 0.7 | 53.3 | 0.05 | 0.71 | 0.81 | 0.186 |
| S125337 | | 36.4 | 480 | 11.6 | 83.7 | 0.112 | 3.65 | 1.04 | 44.2 | 3 | 0.9 | 179.0 | 0.06 | 1.06 | 0.71 | 0.241 |
| S125338 | | 10.4 | 500 | 15.8 | 155.5 | 0.004 | 0.11 | 0.41 | 3.2 | <1 | 1.1 | 343 | 0.41 | <0.05 | 15.70 | 0.163 |
| S125339 | | 30.0 | 660 | 11.1 | 35.2 | 0.014 | 0.46 | 0.43 | 33.8 | 2 | 0.4 | 195.0 | 0.06 | 0.14 | 0.52 | 0.213 |
| S125340 | | 1.2 | 20 | 1.7 | 2.5 | <0.002 | <0.01 | 0.21 | 0.4 | 1 | 0.2 | 3.2 | 0.11 | <0.05 | 1.20 | 0.014 |

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TORONTO ON M5H 3B7


Finalized Date: 30-NOV-2022
Account: OSIFCIDH

Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|
| | Analyte | Tl | U | V | W | Y | Zn | Zr |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOD | 0.02 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.5 |
| S125301 | | 0.04 | 0.1 | 190 | 0.2 | 38.3 | 107 | 54.3 |
| S125302 | | 0.07 | 0.1 | 178 | 0.5 | 32.1 | 122 | 38.8 |
| S125303 | | 0.12 | 0.7 | 57 | 0.7 | 7.1 | 38 | 144.0 |
| S125304 | | 0.34 | 0.3 | 272 | 1.8 | 7.3 | 89 | 29.5 |
| S125305 | | 0.17 | 0.1 | 171 | 1.9 | 8.3 | 75 | 27.1 |
| S125306 | | 0.06 | 1.2 | 39 | 4.7 | 6.6 | 17 | 85.6 |
| S125307 | | 0.03 | 0.8 | 60 | 37.0 | 19.9 | 72 | 86.3 |
| S125308 | | 0.12 | 0.2 | 304 | 40.7 | 11.4 | 62 | 29.6 |
| S125309 | | 0.29 | 0.3 | 38 | 28.8 | 6.2 | 64 | 107.5 |
| S125310 | | 0.02 | 0.1 | 268 | 12.8 | 19.3 | 79 | 21.1 |
| S125311 | | 0.31 | <0.1 | 284 | 0.6 | 6.9 | 85 | 33.3 |
| S125312 | | 0.24 | 0.8 | 90 | 1.2 | 9.5 | 37 | 98.6 |
| S125313 | | 0.06 | 0.1 | 366 | 1.5 | 19.8 | 120 | 28.1 |
| S125314 | | 0.24 | 0.4 | 50 | 19.0 | 4.7 | 123 | 16.4 |
| S125315 | | 0.09 | 0.1 | 15 | 3.9 | 0.7 | 12 | 3.2 |
| S125316 | | 0.13 | 0.2 | 367 | 0.8 | 20.7 | 147 | 26.6 |
| S125317 | | 0.05 | <0.1 | 12 | 1.1 | 1.0 | 15 | 1.1 |
| S125318 | | 0.10 | 0.1 | 475 | 1.1 | 37.2 | 129 | 59.7 |
| S125319 | | 0.02 | <0.1 | 229 | 6.8 | 11.9 | 44 | 10.4 |
| S125320 | | 1.51 | 3.0 | 103 | 2.5 | 23.3 | 140 | 131.0 |
| S125321 | | 0.11 | <0.1 | 35 | 2.9 | 1.3 | 15 | 4.0 |
| S125322 | | 0.31 | 0.4 | 128 | 1.9 | 19.2 | 92 | 46.9 |
| S125323 | | 0.14 | 0.9 | 119 | 0.7 | 30.2 | 110 | 51.5 |
| S125324 | | 0.02 | 0.1 | 328 | 0.8 | 25.3 | 105 | 27.1 |
| S125325 | | 2.06 | 1.9 | 177 | 4.5 | 18.9 | 56 | 218 |
| S125326 | | 2.20 | 1.5 | 388 | 3.3 | 39.8 | 74 | 99.9 |
| S125327 | | 1.13 | 1.4 | 66 | 1.0 | 8.6 | 64 | 135.5 |
| S125328 | | 0.36 | 0.9 | 160 | 1.2 | 5.6 | 183 | 37.3 |
| S125329 | | 1.17 | 1.8 | 49 | 1.2 | 11.2 | 35 | 175.0 |
| S125330 | | 0.31 | 1.6 | 14 | 0.5 | 3.4 | 20 | 25.3 |
| S125331 | | 1.20 | 7.6 | 22 | 4.2 | 11.6 | 13 | 249 |
| S125332 | | 0.30 | 1.0 | 30 | 0.9 | 6.1 | 25 | 111.5 |
| S125333 | | 0.62 | 1.1 | 51 | 1.0 | 14.1 | 47 | 147.0 |
| S125334 | | 1.93 | 0.8 | 296 | 3.4 | 10.9 | 73 | 66.7 |
| S125335 | | 1.21 | 0.5 | 368 | 2.1 | 9.5 | 106 | 83.2 |
| S125336 | | 1.97 | 2.1 | 371 | 3.5 | 11.3 | 103 | 91.6 |
| S125337 | | 0.86 | 1.4 | 295 | 4.5 | 27.8 | 137 | 84.3 |
| S125338 | | 1.77 | 3.9 | 41 | 6.7 | 14.0 | 45 | 191.5 |
| S125339 | | 0.54 | 0.6 | 274 | 4.1 | 18.8 | 23 | 86.1 |
| S125340 | | 0.02 | 0.3 | 3 | 0.2 | 1.7 | 2 | 24.3 |

***** See Appendix Page for comments regarding this certificate *****

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Finalized Date: 30-NOV-2022
Account: OSIFCIDH

Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | WEI-21 | CRU-QC | PUL-QC | Au-AA24 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Recvd Wt. | Pass2mm | Pass75um | Au | Ag | Al | As | Ba | Be | Bi | Ca | Cd | Ce | Co | Cr |
| | Units | kg | % | % | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm |
| | LOD | 0.02 | 0.01 | 0.01 | 0.005 | 0.01 | 0.01 | 0.2 | 10 | 0.05 | 0.01 | 0.01 | 0.02 | 0.01 | 0.1 | 1 |
| S125341 | | 1.43 | 82.6 | 96.1 | 0.007 | 0.17 | 7.50 | 4.4 | 480 | 3.58 | 0.13 | 1.07 | 0.14 | 73.3 | 37.1 | 12 |
| S125342 | | 0.67 | | 96.3 | 0.407 | 1.04 | 7.52 | 5.1 | 1430 | 1.64 | 0.88 | 0.21 | 0.02 | 68.4 | 8.4 | 41 |
| S125343 | | 1.17 | | | 0.449 | 1.50 | 7.18 | 3.9 | 1840 | 3.17 | 0.91 | 0.72 | 0.05 | 71.3 | 6.9 | 54 |
| S125344 | | 0.90 | | | 0.049 | 0.32 | 8.60 | 1.5 | 300 | 1.45 | 0.59 | 0.96 | 0.11 | 165.5 | 9.7 | 56 |
| S125345 | | 0.06 | | | 0.213 | 0.33 | 7.59 | 35.3 | 790 | 2.67 | 0.55 | 1.09 | 0.27 | 83.3 | 33.3 | 115 |

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Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cs | Cu | Fe | Ga | Ge | Hf | In | K | La | Li | Mg | Mn | Mo | Na | Nb |
| | Units | ppm | ppm | % | ppm | ppm | ppm | ppm | % | ppm | ppm | % | ppm | ppm | % | ppm |
| | LOD | 0.05 | 0.2 | 0.01 | 0.05 | 0.05 | 0.1 | 0.005 | 0.01 | 0.5 | 0.2 | 0.01 | 5 | 0.05 | 0.01 | 0.1 |
| S125341 | | 18.45 | 208 | 11.20 | 21.5 | 0.13 | 2.3 | 0.075 | 1.10 | 59.1 | 39.4 | 0.85 | 1860 | 27.2 | 4.48 | 0.9 |
| S125342 | | 1.03 | 678 | 2.04 | 19.85 | 0.11 | 5.7 | 0.031 | 4.06 | 40.9 | 6.1 | 0.41 | 200 | 6.70 | 3.66 | 2.8 |
| S125343 | | 1.07 | 658 | 2.35 | 20.1 | 0.15 | 4.6 | 0.032 | 3.51 | 30.6 | 6.7 | 0.57 | 284 | 4.48 | 3.67 | 4.0 |
| S125344 | | 0.60 | 164.5 | 1.23 | 24.6 | 0.17 | 5.9 | 0.016 | 0.34 | 129.0 | 9.6 | 0.46 | 295 | 72.7 | 7.91 | 8.0 |
| S125345 | | 10.15 | 83.8 | 4.07 | 19.25 | 0.14 | 3.6 | 0.073 | 2.88 | 41.6 | 35.0 | 0.95 | 505 | 0.67 | 0.41 | 11.6 |

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# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Ni | P | Pb | Rb | Re | S | Sb | Sc | Se | Sn | Sr | Ta | Te | Th | Ti |
| | Units | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | LOD | 0.2 | 10 | 0.5 | 0.1 | 0.002 | 0.01 | 0.05 | 0.1 | 1 | 0.2 | 0.2 | 0.05 | 0.05 | 0.01 | 0.005 |
| S125341 | | 28.4 | 630 | 7.8 | 111.0 | 0.042 | 0.17 | 0.69 | 41.1 | <1 | 0.7 | 157.5 | 0.07 | <0.05 | 0.48 | 0.221 |
| S125342 | | 19.6 | 570 | 10.0 | 99.5 | 0.006 | 0.09 | 0.92 | 3.7 | 1 | 0.6 | 371 | 0.19 | 0.07 | 20.9 | 0.069 |
| S125343 | | 23.1 | 310 | 20.1 | 91.4 | 0.003 | 0.09 | 0.80 | 6.5 | 1 | 1.4 | 642 | 0.21 | 0.07 | 11.20 | 0.106 |
| S125344 | | 21.7 | 550 | 31.0 | 18.4 | 0.041 | 0.33 | 0.38 | 4.6 | 1 | 1.5 | 197.0 | 0.43 | 0.16 | 15.95 | 0.199 |
| S125345 | | 78.0 | 440 | 37.0 | 180.5 | 0.002 | 0.12 | 10.95 | 14.5 | 1 | 3.7 | 44.5 | 0.88 | 0.25 | 14.45 | 0.347 |

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Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

| Sample Description | Method | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 | ME-MS61 |
|---|---|---|---|---|---|---|---|---|
| | Analyte | Tl | U | V | W | Y | Zn | Zr |
| | Units | ppm | ppm | ppm | ppm | ppm | ppm | ppm |
| | LOD | 0.02 | 0.1 | 1 | 0.1 | 0.1 | 2 | 0.5 |
| S125341 | | 1.79 | 1.6 | 408 | 1.3 | 11.6 | 100 | 82.9 |
| S125342 | | 1.03 | 2.4 | 41 | 1.4 | 8.2 | 30 | 189.0 |
| S125343 | | 0.87 | 1.5 | 46 | 1.3 | 13.0 | 37 | 175.0 |
| S125344 | | 0.18 | 8.6 | 48 | 2.4 | 16.9 | 39 | 216 |
| S125345 | | 1.46 | 2.9 | 100 | 2.4 | 22.5 | 136 | 124.0 |

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Project: Matachewan-Wydee

# CERTIFICATE OF ANALYSIS SD22323352

## CERTIFICATE COMMENTS

### ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

### LABORATORY ADDRESSES

Applies to Method: Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

| | | | |
|---|---|---|---|
| CRU-31 | CRU-QC | DISP-01 | LOG-22 |
| LOG-23 | PUL-31 | PUL-QC | SPL-21 |
| WEI-21 | | | |

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

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