



BUREAU MINERAL LABORATORIES
VERITAS Canada

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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Submitted By: Gerry Carlson
Receiving Lab: Canada-Whitehorse
Received: August 14, 2018
Report Date: September 29, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

WHI18000646.1

CLIENT JOB INFORMATION

Project: GCP
Shipment ID: GCP-20180810-001-PROBE
P.O. Number
Number of Samples: 101

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

Bureau Veritas does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6
Canada

CC: Isaac Fage

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

| Procedure Code | Number of Samples | Code Description | Test Wgt (g) | Report Status | Lab |
|----------------|-------------------|---|--------------|---------------|-----|
| PRP70-250 | 101 | Crush, split and pulverize 250 g rock to 200 mesh | | | WHI |
| FA430 | 101 | Lead Collection Fire - Assay Fusion - AAS Finish | 30 | Completed | VAN |
| EN002 | 101 | Environmental disposal charge-Fire assay lead waste | | | VAN |
| AQ200 | 101 | 1:1:1 Aqua Regia digestion ICP-MS analysis | 0.5 | Completed | VAN |
| SHP01 | 101 | Per sample shipping charges for branch shipments | | | VAN |

ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Bureau Veritas assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted.
*** asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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Part: 1 of 2

CERTIFICATE OF ANALYSIS

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| | Method Analyte Unit MDL | WGHT | FA430 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 0.005 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 |
| 1599527 | Rock | 0.81 | <0.005 | 1.1 | 40.2 | 22.8 | 56 | <0.1 | 24.4 | 11.8 | 451 | 2.71 | 2.4 | <0.5 | 4.8 | 19 | <0.1 | <0.1 | 0.2 | 72 | 0.22 |
| 1599528 | Rock | 0.85 | <0.005 | 0.8 | 70.2 | 6.6 | 99 | <0.1 | 24.7 | 16.0 | 917 | 4.44 | 0.5 | <0.5 | 5.4 | 13 | <0.1 | <0.1 | <0.1 | 134 | 0.22 |
| 1599529 | Rock | 0.79 | <0.005 | 0.4 | 68.6 | 77.0 | 92 | <0.1 | 44.2 | 15.7 | 658 | 3.99 | <0.5 | <0.5 | 5.4 | 16 | <0.1 | <0.1 | 0.4 | 118 | 0.31 |
| 1599530 | Rock | 0.81 | <0.005 | 0.5 | 35.3 | 2.2 | 57 | <0.1 | 21.0 | 13.5 | 550 | 3.26 | <0.5 | <0.5 | 5.4 | 14 | <0.1 | <0.1 | <0.1 | 80 | 0.33 |
| 1599531 | Rock | 0.81 | <0.005 | 0.6 | 40.4 | 4.7 | 57 | <0.1 | 18.1 | 14.8 | 531 | 3.11 | <0.5 | <0.5 | 4.6 | 25 | <0.1 | <0.1 | <0.1 | 82 | 0.47 |
| 1599532 | Rock | 0.84 | <0.005 | 0.6 | 33.0 | 12.4 | 55 | <0.1 | 14.0 | 15.6 | 545 | 3.45 | <0.5 | <0.5 | 4.3 | 24 | <0.1 | <0.1 | 0.2 | 83 | 0.42 |
| 1599533 | Rock | 0.83 | <0.005 | 0.6 | 30.2 | 4.4 | 58 | <0.1 | 6.7 | 14.4 | 620 | 3.66 | 0.6 | <0.5 | 5.5 | 23 | <0.1 | <0.1 | <0.1 | 77 | 0.56 |
| 1599534 | Rock | 0.71 | <0.005 | 0.6 | 27.4 | 4.9 | 63 | <0.1 | 10.6 | 12.4 | 630 | 3.17 | 1.0 | <0.5 | 5.7 | 18 | <0.1 | <0.1 | <0.1 | 76 | 0.27 |
| 1599535 | Rock | 0.63 | <0.005 | 0.6 | 15.0 | 4.6 | 79 | <0.1 | 8.8 | 11.3 | 839 | 3.35 | 1.0 | <0.5 | 6.3 | 16 | <0.1 | <0.1 | <0.1 | 66 | 0.24 |
| 1599536 | Rock | 0.67 | <0.005 | 0.7 | 26.1 | 7.4 | 68 | <0.1 | 18.6 | 17.9 | 721 | 4.03 | 3.6 | 1.3 | 4.2 | 20 | <0.1 | 0.1 | <0.1 | 101 | 0.28 |
| 1599537 | Rock | 0.76 | <0.005 | 0.8 | 19.3 | 13.7 | 63 | <0.1 | 9.5 | 9.1 | 676 | 3.18 | 2.6 | <0.5 | 7.0 | 28 | <0.1 | 0.2 | 0.1 | 44 | 0.20 |
| 1599538 | Rock | 0.80 | <0.005 | 0.6 | 25.3 | 10.5 | 59 | <0.1 | 6.4 | 10.1 | 683 | 3.07 | 1.3 | <0.5 | 7.0 | 13 | <0.1 | <0.1 | 0.1 | 57 | 0.21 |
| 1599539 | Rock | 0.80 | <0.005 | 0.5 | 41.1 | 29.3 | 72 | <0.1 | 10.4 | 15.7 | 894 | 3.97 | 1.6 | <0.5 | 6.5 | 22 | <0.1 | <0.1 | 0.1 | 93 | 0.36 |
| 1599540 | Rock | 0.90 | <0.005 | 0.4 | 34.1 | 23.9 | 76 | <0.1 | 16.5 | 16.5 | 649 | 3.94 | 1.1 | <0.5 | 4.1 | 29 | <0.1 | <0.1 | 0.1 | 102 | 0.55 |
| 1599541 | Rock | 0.85 | <0.005 | 0.6 | 37.7 | 13.2 | 93 | <0.1 | 16.1 | 13.6 | 733 | 3.68 | 1.4 | <0.5 | 8.1 | 21 | 0.1 | <0.1 | <0.1 | 86 | 0.32 |
| 1599542 | Rock | 0.81 | <0.005 | 0.3 | 33.9 | 12.1 | 73 | <0.1 | 15.4 | 16.4 | 678 | 3.74 | 0.8 | <0.5 | 3.3 | 28 | <0.1 | <0.1 | 0.4 | 100 | 0.47 |
| 1599543 | Rock | 0.98 | <0.005 | 0.5 | 36.1 | 10.9 | 58 | <0.1 | 15.0 | 12.6 | 815 | 3.10 | 1.2 | <0.5 | 5.5 | 26 | <0.1 | <0.1 | <0.1 | 74 | 0.32 |
| 1599544 | Rock | 0.99 | <0.005 | 0.6 | 52.8 | 24.1 | 110 | <0.1 | 28.0 | 15.4 | 813 | 3.90 | 4.1 | <0.5 | 8.2 | 36 | 0.2 | 0.1 | 0.1 | 84 | 0.41 |
| 1599545 | Rock | 0.85 | <0.005 | 0.6 | 41.9 | 34.9 | 101 | <0.1 | 19.5 | 14.1 | 547 | 3.44 | 2.2 | <0.5 | 8.3 | 20 | 0.1 | <0.1 | 0.5 | 65 | 0.25 |
| 1599546 | Rock | 0.87 | <0.005 | 1.7 | 57.2 | 34.9 | 159 | <0.1 | 28.7 | 15.2 | 514 | 3.39 | 3.8 | <0.5 | 14.0 | 15 | 0.1 | 0.1 | 0.3 | 48 | 0.19 |
| 1599547 | Rock | 0.87 | <0.005 | 1.1 | 60.1 | 69.3 | 149 | 0.1 | 16.5 | 9.0 | 260 | 3.88 | 6.3 | <0.5 | 9.3 | 41 | 0.2 | <0.1 | 0.2 | 44 | 0.10 |
| 1599548 | Rock | 0.83 | <0.005 | 0.7 | 45.9 | 54.4 | 144 | <0.1 | 32.7 | 16.9 | 552 | 3.61 | 6.0 | <0.5 | 13.4 | 17 | 0.2 | 0.2 | 0.2 | 51 | 0.25 |
| 1599549 | Rock | 0.85 | <0.005 | 0.4 | 41.6 | 8.5 | 80 | <0.1 | 16.2 | 22.9 | 678 | 4.91 | 0.8 | 0.9 | 2.8 | 40 | <0.1 | <0.1 | <0.1 | 117 | 0.59 |
| 1599550 | Rock | 0.87 | <0.005 | 0.5 | 34.6 | 6.1 | 71 | <0.1 | 12.9 | 17.6 | 733 | 4.08 | 2.0 | <0.5 | 4.2 | 32 | <0.1 | <0.1 | <0.1 | 109 | 0.42 |
| 1599551 | Rock | 0.82 | <0.005 | 0.3 | 21.0 | 3.3 | 84 | <0.1 | 8.8 | 14.5 | 903 | 4.34 | <0.5 | <0.5 | 6.4 | 17 | <0.1 | <0.1 | <0.1 | 112 | 0.27 |
| 1599552 | Rock | 0.89 | <0.005 | 0.6 | 43.5 | 2.6 | 62 | <0.1 | 17.3 | 16.8 | 802 | 3.70 | <0.5 | <0.5 | 5.4 | 23 | <0.1 | <0.1 | <0.1 | 99 | 0.41 |
| 1599553 | Rock | 0.78 | 0.005 | 0.3 | 23.1 | 2.5 | 44 | <0.1 | 16.5 | 14.1 | 485 | 2.75 | <0.5 | <0.5 | 3.6 | 24 | <0.1 | <0.1 | <0.1 | 73 | 0.67 |
| 1599554 | Rock | 0.91 | <0.005 | 0.3 | 29.1 | 2.9 | 60 | <0.1 | 19.9 | 17.4 | 753 | 3.76 | <0.5 | <0.5 | 4.8 | 32 | <0.1 | <0.1 | <0.1 | 96 | 0.49 |
| 1599555 | Rock | 0.86 | <0.005 | 0.3 | 31.1 | 7.7 | 48 | <0.1 | 5.0 | 13.4 | 600 | 3.25 | 0.8 | <0.5 | 7.1 | 28 | 0.1 | <0.1 | <0.1 | 87 | 0.80 |
| 1599556 | Rock | 0.90 | <0.005 | 0.5 | 38.5 | 21.9 | 76 | <0.1 | 6.2 | 18.4 | 753 | 4.12 | <0.5 | <0.5 | 2.9 | 20 | 0.1 | <0.1 | 0.3 | 107 | 1.04 |



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Page: 2 of 5 **Part:** 2 of 2

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| | Method Analyte Unit MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Ti | S | Ga | Se | Te |
| | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| 1599527 | Rock | 0.042 | 14 | 49 | 0.79 | 289 | 0.155 | <20 | 1.60 | 0.027 | 0.52 | <0.1 | <0.01 | 5.7 | 0.2 | <0.05 | 6 | <0.5 | <0.2 |
| 1599528 | Rock | 0.053 | 14 | 44 | 2.04 | 1127 | 0.342 | <20 | 2.73 | 0.041 | 1.85 | <0.1 | <0.01 | 15.0 | 0.4 | <0.05 | 11 | <0.5 | <0.2 |
| 1599529 | Rock | 0.058 | 14 | 55 | 1.72 | 921 | 0.311 | <20 | 2.14 | 0.036 | 1.42 | <0.1 | <0.01 | 11.4 | 0.4 | <0.05 | 10 | 0.5 | <0.2 |
| 1599530 | Rock | 0.047 | 13 | 86 | 1.55 | 542 | 0.271 | <20 | 1.89 | 0.052 | 1.17 | <0.1 | <0.01 | 8.6 | 0.2 | <0.05 | 7 | <0.5 | <0.2 |
| 1599531 | Rock | 0.052 | 15 | 66 | 1.50 | 425 | 0.255 | <20 | 1.96 | 0.061 | 1.05 | <0.1 | <0.01 | 7.2 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599532 | Rock | 0.057 | 14 | 41 | 1.65 | 431 | 0.273 | <20 | 2.11 | 0.051 | 1.29 | <0.1 | <0.01 | 6.2 | 0.4 | <0.05 | 7 | <0.5 | <0.2 |
| 1599533 | Rock | 0.058 | 12 | 22 | 1.24 | 258 | 0.263 | <20 | 1.88 | 0.073 | 0.95 | <0.1 | <0.01 | 5.9 | 0.4 | <0.05 | 6 | <0.5 | <0.2 |
| 1599534 | Rock | 0.036 | 13 | 33 | 1.36 | 302 | 0.247 | <20 | 1.94 | 0.046 | 1.10 | <0.1 | <0.01 | 5.8 | 0.4 | <0.05 | 7 | <0.5 | <0.2 |
| 1599535 | Rock | 0.051 | 12 | 29 | 1.32 | 315 | 0.252 | <20 | 1.97 | 0.045 | 1.04 | 0.1 | <0.01 | 7.3 | 0.4 | <0.05 | 8 | <0.5 | <0.2 |
| 1599536 | Rock | 0.043 | 10 | 50 | 1.77 | 331 | 0.285 | <20 | 2.72 | 0.032 | 1.10 | 0.1 | <0.01 | 5.3 | 0.4 | <0.05 | 8 | <0.5 | <0.2 |
| 1599537 | Rock | 0.037 | 19 | 20 | 0.63 | 1147 | 0.126 | <20 | 1.39 | 0.052 | 0.46 | 0.2 | <0.01 | 7.5 | 0.2 | <0.05 | 5 | <0.5 | <0.2 |
| 1599538 | Rock | 0.045 | 15 | 13 | 1.02 | 482 | 0.169 | <20 | 1.72 | 0.031 | 0.93 | 0.1 | <0.01 | 9.5 | 0.2 | <0.05 | 7 | <0.5 | <0.2 |
| 1599539 | Rock | 0.067 | 17 | 29 | 1.81 | 445 | 0.287 | <20 | 2.51 | 0.034 | 1.41 | 0.1 | <0.01 | 9.3 | 0.3 | <0.05 | 9 | <0.5 | <0.2 |
| 1599540 | Rock | 0.096 | 15 | 40 | 1.92 | 286 | 0.268 | <20 | 2.44 | 0.045 | 1.12 | <0.1 | <0.01 | 9.5 | 0.3 | <0.05 | 9 | <0.5 | <0.2 |
| 1599541 | Rock | 0.046 | 17 | 28 | 1.35 | 361 | 0.272 | <20 | 2.19 | 0.043 | 1.17 | <0.1 | <0.01 | 10.4 | 0.3 | <0.05 | 9 | <0.5 | <0.2 |
| 1599542 | Rock | 0.055 | 12 | 36 | 1.71 | 305 | 0.284 | <20 | 2.42 | 0.049 | 1.26 | <0.1 | <0.01 | 7.2 | 0.3 | <0.05 | 8 | <0.5 | <0.2 |
| 1599543 | Rock | 0.036 | 17 | 45 | 1.39 | 250 | 0.164 | <20 | 1.85 | 0.031 | 0.72 | <0.1 | 0.01 | 8.4 | 0.2 | <0.05 | 8 | <0.5 | <0.2 |
| 1599544 | Rock | 0.048 | 21 | 39 | 1.25 | 299 | 0.158 | <20 | 2.32 | 0.027 | 0.78 | <0.1 | <0.01 | 10.0 | 0.3 | <0.05 | 9 | <0.5 | <0.2 |
| 1599545 | Rock | 0.044 | 16 | 40 | 1.04 | 185 | 0.187 | <20 | 2.19 | 0.029 | 0.85 | <0.1 | <0.01 | 5.8 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599546 | Rock | 0.049 | 32 | 35 | 0.65 | 149 | 0.138 | <20 | 1.56 | 0.022 | 0.71 | 0.1 | <0.01 | 5.0 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| 1599547 | Rock | 0.046 | 28 | 25 | 0.47 | 97 | 0.100 | <20 | 1.47 | 0.012 | 0.67 | <0.1 | <0.01 | 3.8 | 0.3 | 0.10 | 4 | <0.5 | <0.2 |
| 1599548 | Rock | 0.046 | 29 | 43 | 0.76 | 102 | 0.146 | <20 | 1.84 | 0.019 | 0.78 | <0.1 | <0.01 | 5.9 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| 1599549 | Rock | 0.081 | 17 | 15 | 1.73 | 170 | 0.377 | <20 | 3.30 | 0.019 | 1.74 | <0.1 | <0.01 | 4.5 | 0.4 | <0.05 | 6 | <0.5 | <0.2 |
| 1599550 | Rock | 0.047 | 13 | 30 | 1.90 | 346 | 0.343 | <20 | 2.58 | 0.039 | 1.52 | 0.1 | <0.01 | 6.0 | 0.3 | <0.05 | 8 | <0.5 | <0.2 |
| 1599551 | Rock | 0.050 | 12 | 26 | 2.06 | 495 | 0.388 | <20 | 2.98 | 0.035 | 2.10 | 0.2 | <0.01 | 9.4 | 0.5 | <0.05 | 10 | <0.5 | <0.2 |
| 1599552 | Rock | 0.045 | 19 | 63 | 2.20 | 362 | 0.307 | <20 | 2.71 | 0.030 | 1.48 | 0.1 | <0.01 | 6.0 | 0.4 | <0.05 | 8 | <0.5 | <0.2 |
| 1599553 | Rock | 0.073 | 9 | 57 | 1.43 | 171 | 0.220 | <20 | 1.73 | 0.062 | 0.88 | <0.1 | <0.01 | 5.8 | 0.3 | <0.05 | 5 | <0.5 | <0.2 |
| 1599554 | Rock | 0.051 | 14 | 65 | 2.27 | 366 | 0.308 | <20 | 2.76 | 0.039 | 1.58 | <0.1 | <0.01 | 5.7 | 0.4 | <0.05 | 7 | <0.5 | <0.2 |
| 1599555 | Rock | 0.066 | 16 | 11 | 0.81 | 615 | 0.174 | <20 | 1.19 | 0.134 | 0.32 | <0.1 | 0.02 | 10.7 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599556 | Rock | 0.101 | 12 | 12 | 1.42 | 565 | 0.250 | <20 | 1.77 | 0.154 | 0.68 | 0.1 | 0.01 | 11.6 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |



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|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 0.005 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 |
| 1599557 | Rock | 0.89 | <0.005 | 0.3 | 15.7 | 6.1 | 71 | <0.1 | 10.9 | 12.1 | 704 | 3.36 | <0.5 | <0.5 | 3.7 | 34 | <0.1 | <0.1 | <0.1 | 76 | 0.39 |
| 1599558 | Rock | 0.75 | <0.005 | 0.3 | 13.6 | 18.5 | 40 | <0.1 | 10.8 | 9.8 | 503 | 2.58 | <0.5 | <0.5 | 4.5 | 35 | <0.1 | <0.1 | 0.3 | 58 | 0.60 |
| 1599559 | Rock | 0.79 | <0.005 | 0.2 | 38.3 | 28.1 | 32 | <0.1 | 12.5 | 14.8 | 454 | 2.64 | 0.6 | <0.5 | 3.0 | 45 | <0.1 | <0.1 | 0.4 | 65 | 0.90 |
| 1599560 | Rock | 0.74 | <0.005 | 0.4 | 13.4 | 2.8 | 28 | <0.1 | 12.9 | 10.4 | 363 | 2.34 | 1.6 | 2.3 | 3.7 | 30 | <0.1 | <0.1 | <0.1 | 59 | 0.83 |
| 1599561 | Rock | 0.64 | <0.005 | 0.5 | 32.1 | 3.5 | 42 | <0.1 | 9.9 | 11.9 | 510 | 3.21 | 2.3 | 1.0 | 3.5 | 35 | <0.1 | <0.1 | <0.1 | 68 | 0.95 |
| 1599562 | Rock | 0.86 | <0.005 | 0.9 | 31.9 | 9.2 | 116 | <0.1 | 4.0 | 9.6 | 804 | 4.49 | <0.5 | 1.0 | 8.3 | 23 | <0.1 | <0.1 | <0.1 | 72 | 0.28 |
| 1599563 | Rock | 0.65 | <0.005 | 0.5 | 14.4 | 8.5 | 40 | <0.1 | 11.7 | 7.6 | 297 | 2.52 | 3.9 | <0.5 | 4.1 | 21 | <0.1 | 0.2 | 0.1 | 49 | 0.18 |
| 1599564 | Rock | 0.80 | <0.005 | 0.2 | 7.0 | 1.9 | 31 | <0.1 | 2.4 | 6.3 | 571 | 3.04 | 0.5 | 0.8 | 7.0 | 15 | <0.1 | <0.1 | <0.1 | 34 | 0.24 |
| 1599565 | Rock | 0.80 | <0.005 | 0.2 | 4.9 | 1.5 | 48 | <0.1 | 1.7 | 3.9 | 266 | 2.04 | <0.5 | 0.9 | 3.9 | 14 | <0.1 | <0.1 | <0.1 | 23 | 0.14 |
| 1599566 | Rock | 0.81 | <0.005 | 0.3 | 51.9 | 8.9 | 69 | <0.1 | 10.0 | 14.3 | 842 | 4.10 | <0.5 | 1.6 | 4.5 | 21 | <0.1 | <0.1 | 0.1 | 100 | 0.57 |
| 1599567 | Rock | 0.99 | <0.005 | 0.2 | 21.7 | 8.3 | 140 | <0.1 | 14.3 | 17.2 | 884 | 3.75 | <0.5 | <0.5 | 3.8 | 30 | <0.1 | <0.1 | 0.1 | 100 | 1.14 |
| 1599568 | Rock | 0.80 | <0.005 | 0.3 | 33.4 | 4.5 | 47 | <0.1 | 2.0 | 6.2 | 471 | 3.41 | 0.9 | 0.8 | 4.4 | 14 | 0.1 | <0.1 | 0.1 | 22 | 0.58 |
| 1599569 | Rock | 0.81 | <0.005 | 0.2 | 29.6 | 24.7 | 70 | <0.1 | 2.0 | 9.1 | 596 | 3.61 | 0.5 | <0.5 | 7.5 | 13 | <0.1 | <0.1 | 0.2 | 56 | 0.26 |
| 1599570 | Rock | 0.85 | <0.005 | 0.2 | 39.1 | 8.1 | 56 | <0.1 | 7.2 | 14.9 | 736 | 3.95 | <0.5 | <0.5 | 3.7 | 21 | <0.1 | <0.1 | <0.1 | 97 | 0.84 |
| 1599571 | Rock | 0.89 | <0.005 | 0.3 | 101.4 | 25.1 | 69 | <0.1 | 5.1 | 16.9 | 804 | 4.94 | 0.9 | <0.5 | 4.9 | 32 | <0.1 | <0.1 | 0.5 | 110 | 0.41 |
| 1599572 | Rock | 0.80 | <0.005 | 0.1 | 28.9 | 4.5 | 77 | <0.1 | 6.7 | 17.5 | 728 | 3.96 | 0.6 | <0.5 | 3.2 | 23 | <0.1 | <0.1 | <0.1 | 107 | 0.99 |
| 1599573 | Rock | 0.85 | <0.005 | 0.3 | 25.7 | 4.2 | 104 | <0.1 | 4.8 | 12.3 | 696 | 3.86 | <0.5 | 1.8 | 5.3 | 35 | <0.1 | <0.1 | <0.1 | 73 | 0.55 |
| 1599574 | Rock | 0.75 | <0.005 | 0.3 | 21.0 | 7.7 | 61 | <0.1 | 5.8 | 13.2 | 541 | 3.20 | 0.5 | <0.5 | 5.4 | 23 | <0.1 | <0.1 | <0.1 | 73 | 0.49 |
| 1599575 | Rock | 0.76 | <0.005 | 0.3 | 27.2 | 4.0 | 69 | <0.1 | 6.0 | 16.2 | 661 | 3.78 | <0.5 | <0.5 | 5.1 | 26 | <0.1 | <0.1 | <0.1 | 90 | 0.64 |
| 1599576 | Rock | 1.19 | <0.005 | <0.1 | 1.1 | 0.6 | 1 | <0.1 | 0.1 | 0.2 | 126 | 0.06 | <0.5 | 0.6 | <0.1 | 81 | <0.1 | <0.1 | <0.1 | <1 | 32.01 |
| 1599577 | Rock | 0.80 | <0.005 | 0.7 | 38.5 | 7.7 | 102 | <0.1 | 5.7 | 13.3 | 832 | 4.07 | <0.5 | <0.5 | 6.8 | 47 | <0.1 | <0.1 | <0.1 | 76 | 0.51 |
| 1599578 | Rock | 0.91 | <0.005 | 0.5 | 86.5 | 26.6 | 140 | <0.1 | 13.0 | 10.6 | 631 | 4.17 | <0.5 | 0.9 | 6.6 | 61 | 0.2 | <0.1 | 0.1 | 75 | 0.25 |
| 1599579 | Rock | 0.82 | <0.005 | 0.6 | 111.3 | 10.1 | 184 | 0.1 | 4.6 | 11.7 | 990 | 5.46 | <0.5 | 0.5 | 4.4 | 61 | 0.2 | <0.1 | <0.1 | 30 | 0.12 |
| 1599580 | Rock | 0.83 | <0.005 | 0.9 | 86.9 | 21.2 | 206 | <0.1 | 10.3 | 17.1 | 901 | 4.99 | 1.1 | <0.5 | 6.8 | 47 | 0.2 | <0.1 | 0.2 | 61 | 0.14 |
| 1599581 | Rock | 0.84 | <0.005 | 0.8 | 43.1 | 14.1 | 194 | <0.1 | 37.6 | 17.0 | 815 | 3.80 | 0.6 | <0.5 | 11.8 | 47 | 0.3 | <0.1 | <0.1 | 69 | 0.52 |
| 1599582 | Rock | 0.61 | <0.005 | 0.7 | 41.6 | 10.1 | 176 | <0.1 | 31.6 | 19.5 | 839 | 3.83 | 1.0 | <0.5 | 9.4 | 25 | 0.2 | <0.1 | <0.1 | 66 | 0.31 |
| 1599583 | Rock | 0.73 | <0.005 | 1.4 | 71.0 | 31.8 | 240 | <0.1 | 16.0 | 20.8 | 557 | 4.59 | 3.1 | <0.5 | 6.0 | 47 | 0.3 | <0.1 | 0.2 | 104 | 0.20 |
| 1599601 | Rock | 0.69 | <0.005 | 0.7 | 26.9 | 9.6 | 66 | <0.1 | 58.0 | 21.4 | 541 | 3.29 | <0.5 | <0.5 | 14.3 | 94 | <0.1 | <0.1 | <0.1 | 51 | 0.69 |
| 1599602 | Rock | 0.80 | <0.005 | 0.9 | 26.7 | 8.1 | 76 | <0.1 | 58.8 | 24.1 | 746 | 3.42 | 0.6 | <0.5 | 13.6 | 65 | 0.1 | <0.1 | <0.1 | 54 | 0.54 |
| 1599603 | Rock | 0.72 | <0.005 | 0.6 | 23.2 | 8.2 | 46 | <0.1 | 19.2 | 9.6 | 366 | 2.61 | 0.8 | 0.7 | 8.5 | 56 | <0.1 | <0.1 | <0.1 | 45 | 0.29 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP
Report Date: September 29, 2018

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

WHI18000646.1

| | Method | Analyte | Unit | MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | | | |
|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|
| | | | | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| | | | | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | | | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| 1599557 | Rock | | | | 0.050 | 16 | 37 | 0.74 | 742 | 0.105 | <20 | 1.12 | 0.057 | 0.31 | 0.1 | 0.01 | 12.2 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599558 | Rock | | | | 0.043 | 15 | 31 | 0.75 | 548 | 0.125 | <20 | 1.12 | 0.097 | 0.25 | <0.1 | <0.01 | 8.0 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| 1599559 | Rock | | | | 0.070 | 11 | 29 | 0.81 | 334 | 0.168 | <20 | 1.27 | 0.118 | 0.22 | <0.1 | <0.01 | 7.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599560 | Rock | | | | 0.043 | 10 | 40 | 0.76 | 205 | 0.171 | <20 | 1.30 | 0.108 | 0.17 | <0.1 | <0.01 | 6.1 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| 1599561 | Rock | | | | 0.074 | 8 | 26 | 0.90 | 280 | 0.210 | <20 | 1.81 | 0.126 | 0.34 | <0.1 | <0.01 | 8.9 | 0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 1599562 | Rock | | | | 0.069 | 26 | 10 | 1.41 | 623 | 0.321 | <20 | 1.96 | 0.052 | 1.35 | <0.1 | <0.01 | 11.2 | 0.4 | <0.05 | 9 | <0.5 | <0.2 |
| 1599563 | Rock | | | | 0.023 | 11 | 23 | 0.59 | 283 | 0.119 | <20 | 1.42 | 0.052 | 0.23 | <0.1 | <0.01 | 5.2 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599564 | Rock | | | | 0.044 | 20 | 9 | 0.79 | 550 | 0.188 | <20 | 1.38 | 0.059 | 0.67 | <0.1 | <0.01 | 7.6 | 0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 1599565 | Rock | | | | 0.006 | 15 | 5 | 0.96 | 255 | 0.073 | <20 | 1.01 | 0.072 | 0.16 | <0.1 | <0.01 | 4.7 | <0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599566 | Rock | | | | 0.045 | 16 | 42 | 1.23 | 738 | 0.254 | <20 | 1.67 | 0.074 | 0.67 | 0.1 | <0.01 | 12.7 | 0.2 | <0.05 | 8 | <0.5 | <0.2 |
| 1599567 | Rock | | | | 0.065 | 15 | 35 | 1.43 | 453 | 0.233 | <20 | 2.11 | 0.169 | 0.46 | <0.1 | <0.01 | 11.5 | 0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 1599568 | Rock | | | | 0.062 | 11 | 5 | 0.47 | 292 | 0.161 | <20 | 1.09 | 0.114 | 0.40 | <0.1 | <0.01 | 8.8 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599569 | Rock | | | | 0.040 | 14 | 5 | 0.74 | 314 | 0.218 | <20 | 1.57 | 0.058 | 0.64 | <0.1 | 0.02 | 10.0 | 0.2 | <0.05 | 8 | <0.5 | <0.2 |
| 1599570 | Rock | | | | 0.050 | 12 | 35 | 1.15 | 328 | 0.283 | <20 | 1.69 | 0.133 | 0.71 | <0.1 | <0.01 | 11.6 | 0.2 | <0.05 | 8 | <0.5 | <0.2 |
| 1599571 | Rock | | | | 0.055 | 16 | 10 | 0.99 | 942 | 0.138 | <20 | 1.97 | 0.022 | 0.82 | <0.1 | 0.05 | 19.5 | 0.3 | <0.05 | 8 | <0.5 | <0.2 |
| 1599572 | Rock | | | | 0.062 | 11 | 17 | 1.21 | 536 | 0.262 | <20 | 1.73 | 0.128 | 0.63 | <0.1 | <0.01 | 12.2 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599573 | Rock | | | | 0.065 | 17 | 11 | 1.21 | 535 | 0.278 | <20 | 1.82 | 0.067 | 1.01 | <0.1 | <0.01 | 8.7 | 0.3 | <0.05 | 8 | <0.5 | <0.2 |
| 1599574 | Rock | | | | 0.029 | 14 | 21 | 1.28 | 366 | 0.232 | <20 | 1.67 | 0.065 | 0.89 | <0.1 | <0.01 | 8.1 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599575 | Rock | | | | 0.058 | 13 | 18 | 1.37 | 430 | 0.291 | <20 | 1.92 | 0.084 | 1.16 | <0.1 | <0.01 | 9.2 | 0.3 | <0.05 | 8 | <0.5 | <0.2 |
| 1599576 | Rock | | | | 0.006 | 1 | <1 | 0.66 | 14 | 0.002 | <20 | 0.02 | 0.002 | 0.01 | <0.1 | <0.01 | 0.2 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| 1599577 | Rock | | | | 0.050 | 18 | 13 | 0.93 | 2806 | 0.242 | <20 | 1.37 | 0.076 | 0.81 | <0.1 | <0.01 | 13.4 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599578 | Rock | | | | 0.034 | 27 | 39 | 1.01 | 1161 | 0.225 | <20 | 1.38 | 0.045 | 0.83 | <0.1 | <0.01 | 12.1 | 0.4 | 0.08 | 7 | <0.5 | <0.2 |
| 1599579 | Rock | | | | 0.038 | 18 | 9 | 1.14 | 1530 | 0.227 | <20 | 1.92 | 0.039 | 1.22 | <0.1 | <0.01 | 17.7 | 0.3 | 0.25 | 9 | <0.5 | <0.2 |
| 1599580 | Rock | | | | 0.051 | 19 | 30 | 1.27 | 885 | 0.247 | <20 | 2.20 | 0.034 | 1.29 | <0.1 | <0.01 | 15.8 | 0.4 | 0.15 | 10 | 0.6 | <0.2 |
| 1599581 | Rock | | | | 0.090 | 24 | 53 | 1.20 | 719 | 0.297 | <20 | 2.36 | 0.075 | 1.23 | <0.1 | <0.01 | 6.8 | 0.5 | <0.05 | 9 | <0.5 | <0.2 |
| 1599582 | Rock | | | | 0.056 | 27 | 49 | 1.19 | 406 | 0.263 | <20 | 2.08 | 0.042 | 1.25 | <0.1 | <0.01 | 6.8 | 0.5 | <0.05 | 8 | <0.5 | <0.2 |
| 1599583 | Rock | | | | 0.076 | 20 | 51 | 1.59 | 530 | 0.199 | <20 | 2.48 | 0.041 | 1.28 | <0.1 | <0.01 | 13.7 | 0.4 | 0.11 | 10 | <0.5 | <0.2 |
| 1599601 | Rock | | | | 0.035 | 27 | 60 | 0.84 | 273 | 0.219 | <20 | 3.07 | 0.109 | 0.79 | <0.1 | <0.01 | 4.1 | 0.4 | <0.05 | 9 | <0.5 | <0.2 |
| 1599602 | Rock | | | | 0.037 | 31 | 56 | 0.90 | 414 | 0.256 | <20 | 3.15 | 0.117 | 1.10 | <0.1 | <0.01 | 4.1 | 0.5 | <0.05 | 9 | <0.5 | <0.2 |
| 1599603 | Rock | | | | 0.043 | 28 | 45 | 0.58 | 209 | 0.191 | <20 | 1.69 | 0.077 | 0.72 | <0.1 | <0.01 | 4.5 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP
Report Date: September 29, 2018

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CERTIFICATE OF ANALYSIS

WHI18000646.1

| | Method | Analyte | Unit | | | | | | | | | | | | | | | | | | | |
|---------|--------|---------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| | | | WGHT | FA430 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | |
| | | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| MDL | 0.01 | 0.005 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | | |
| 1599604 | Rock | 0.73 | <0.005 | 0.8 | 25.4 | 6.9 | 36 | <0.1 | 14.5 | 8.8 | 476 | 2.39 | 1.6 | <0.5 | 9.7 | 32 | <0.1 | <0.1 | <0.1 | 36 | 0.14 | |
| 1599605 | Rock | 0.74 | <0.005 | 0.6 | 25.0 | 12.0 | 49 | <0.1 | 15.6 | 8.9 | 406 | 2.72 | <0.5 | <0.5 | 13.7 | 40 | <0.1 | <0.1 | <0.1 | 48 | 0.19 | |
| 1599606 | Rock | 0.75 | <0.005 | 0.4 | 21.7 | 9.4 | 43 | <0.1 | 24.6 | 9.3 | 382 | 2.58 | <0.5 | 0.7 | 8.3 | 34 | <0.1 | <0.1 | <0.1 | 38 | 0.34 | |
| 1599607 | Rock | 0.76 | <0.005 | 0.6 | 27.2 | 16.3 | 48 | <0.1 | 37.0 | 12.6 | 492 | 3.10 | 0.8 | <0.5 | 17.3 | 31 | 0.1 | <0.1 | <0.1 | 49 | 0.36 | |
| 1599608 | Rock | 0.50 | <0.005 | 0.5 | 16.2 | 24.6 | 50 | <0.1 | 26.7 | 9.6 | 461 | 2.55 | 0.6 | <0.5 | 11.8 | 36 | <0.1 | <0.1 | 0.3 | 35 | 0.35 | |
| 1599609 | Rock | 0.78 | <0.005 | 0.6 | 20.5 | 7.9 | 50 | <0.1 | 26.4 | 11.5 | 419 | 2.88 | <0.5 | <0.5 | 11.1 | 52 | <0.1 | <0.1 | <0.1 | 42 | 0.39 | |
| 1599610 | Rock | 0.60 | <0.005 | 0.9 | 23.9 | 7.6 | 49 | <0.1 | 16.2 | 15.3 | 674 | 2.32 | 2.1 | <0.5 | 9.1 | 16 | <0.1 | <0.1 | <0.1 | 34 | 0.09 | |
| 1599611 | Rock | 0.80 | <0.005 | 1.3 | 38.1 | 9.4 | 72 | <0.1 | 21.4 | 10.1 | 550 | 3.55 | 0.8 | <0.5 | 14.3 | 52 | <0.1 | <0.1 | <0.1 | 54 | 0.15 | |
| 1599612 | Rock | 0.80 | <0.005 | 0.9 | 11.4 | 5.7 | 39 | <0.1 | 8.0 | 5.6 | 460 | 2.18 | 0.7 | 0.5 | 5.6 | 27 | <0.1 | <0.1 | <0.1 | 29 | 0.32 | |
| 1599613 | Rock | 0.86 | <0.005 | 1.5 | 40.5 | 8.4 | 68 | <0.1 | 16.7 | 11.4 | 495 | 3.22 | <0.5 | <0.5 | 13.7 | 72 | <0.1 | <0.1 | <0.1 | 88 | 0.23 | |
| 1599614 | Rock | 0.82 | <0.005 | 1.0 | 29.8 | 7.7 | 57 | <0.1 | 17.5 | 10.1 | 469 | 3.17 | 0.5 | <0.5 | 13.4 | 42 | <0.1 | <0.1 | <0.1 | 48 | 0.15 | |
| 1599615 | Rock | 0.81 | <0.005 | 1.2 | 30.4 | 7.5 | 54 | <0.1 | 17.0 | 11.7 | 445 | 3.19 | <0.5 | <0.5 | 12.6 | 34 | <0.1 | <0.1 | <0.1 | 41 | 0.14 | |
| 1599616 | Rock | 0.56 | <0.005 | 0.8 | 23.3 | 7.2 | 42 | <0.1 | 14.4 | 8.2 | 326 | 2.44 | 0.9 | <0.5 | 9.7 | 34 | <0.1 | <0.1 | <0.1 | 42 | 0.16 | |
| 1599617 | Rock | 0.60 | <0.005 | 0.9 | 29.5 | 10.9 | 73 | <0.1 | 18.9 | 10.1 | 508 | 3.20 | 0.8 | <0.5 | 11.3 | 43 | <0.1 | <0.1 | <0.1 | 55 | 0.17 | |
| 1599618 | Rock | 0.79 | <0.005 | 1.0 | 28.9 | 14.4 | 80 | <0.1 | 29.5 | 14.3 | 590 | 3.32 | <0.5 | <0.5 | 13.1 | 37 | <0.1 | <0.1 | <0.1 | 57 | 0.29 | |
| 1599619 | Rock | 0.81 | <0.005 | 0.7 | 28.9 | 10.2 | 85 | <0.1 | 24.9 | 12.2 | 575 | 3.46 | 0.6 | <0.5 | 13.3 | 26 | <0.1 | <0.1 | <0.1 | 55 | 0.21 | |
| 1599620 | Rock | 0.85 | <0.005 | 0.8 | 41.0 | 10.1 | 104 | <0.1 | 31.9 | 17.0 | 648 | 3.98 | <0.5 | <0.5 | 24.1 | 45 | 0.1 | <0.1 | <0.1 | 69 | 0.41 | |
| 1599621 | Rock | 0.88 | <0.005 | 0.9 | 34.9 | 9.4 | 75 | <0.1 | 29.0 | 13.3 | 577 | 3.75 | <0.5 | <0.5 | 14.7 | 43 | <0.1 | <0.1 | <0.1 | 58 | 0.29 | |
| 1599622 | Rock | 0.82 | <0.005 | 0.9 | 39.6 | 18.5 | 62 | <0.1 | 24.5 | 19.3 | 679 | 3.27 | 1.0 | <0.5 | 11.9 | 32 | 0.1 | <0.1 | 0.1 | 78 | 0.50 | |
| 1599623 | Rock | 0.91 | <0.005 | 1.9 | 26.6 | 7.0 | 61 | <0.1 | 28.1 | 12.9 | 568 | 3.03 | 0.6 | <0.5 | 12.7 | 23 | <0.1 | <0.1 | <0.1 | 54 | 0.21 | |
| 1599624 | Rock | 0.81 | <0.005 | 0.8 | 26.9 | 8.9 | 52 | <0.1 | 16.8 | 8.8 | 469 | 2.96 | <0.5 | <0.5 | 14.5 | 49 | <0.1 | <0.1 | 0.1 | 55 | 0.13 | |
| 1599625 | Rock | 0.93 | <0.005 | 0.6 | 18.0 | 3.9 | 44 | <0.1 | 16.2 | 8.2 | 424 | 3.11 | <0.5 | <0.5 | 14.1 | 29 | <0.1 | <0.1 | <0.1 | 34 | 0.11 | |
| 1599626 | Rock | 0.90 | <0.005 | <0.1 | 0.4 | 0.3 | <1 | <0.1 | <0.1 | 0.1 | 110 | 0.10 | <0.5 | <0.5 | <0.1 | 77 | <0.1 | <0.1 | <0.1 | <1 | 31.17 | |
| 1599627 | Rock | 0.90 | <0.005 | 1.1 | 31.4 | 6.0 | 64 | <0.1 | 16.6 | 7.7 | 450 | 3.15 | <0.5 | <0.5 | 12.7 | 42 | <0.1 | <0.1 | <0.1 | 59 | 0.26 | |
| 1599628 | Rock | 0.82 | <0.005 | 0.8 | 32.9 | 5.4 | 58 | <0.1 | 28.9 | 16.6 | 590 | 3.80 | <0.5 | <0.5 | 15.5 | 35 | <0.1 | <0.1 | <0.1 | 62 | 0.24 | |
| 1599629 | Rock | 0.88 | <0.005 | 0.6 | 22.9 | 5.5 | 59 | <0.1 | 27.2 | 13.3 | 585 | 3.71 | 0.5 | <0.5 | 14.7 | 43 | <0.1 | <0.1 | <0.1 | 57 | 0.18 | |
| 1599630 | Rock | 0.75 | <0.005 | 0.7 | 18.6 | 2.8 | 25 | <0.1 | 8.7 | 5.2 | 218 | 2.11 | <0.5 | <0.5 | 9.7 | 25 | <0.1 | <0.1 | <0.1 | 23 | 0.07 | |
| 1599631 | Rock | 0.74 | <0.005 | 1.4 | 84.7 | 15.4 | 59 | <0.1 | 33.8 | 15.8 | 340 | 3.13 | 14.6 | <0.5 | 10.6 | 93 | <0.1 | 0.4 | <0.1 | 41 | 0.26 | |
| 1599632 | Rock | 0.82 | <0.005 | 1.4 | 41.3 | 9.5 | 60 | <0.1 | 29.5 | 12.1 | 484 | 3.39 | 28.0 | <0.5 | 10.5 | 55 | 0.1 | 0.2 | 0.1 | 64 | 0.21 | |
| 1599633 | Rock | 0.81 | <0.005 | 0.8 | 23.4 | 7.2 | 29 | <0.1 | 15.7 | 8.1 | 303 | 1.99 | 7.2 | <0.5 | 6.8 | 51 | <0.1 | 0.2 | <0.1 | 25 | 0.13 | |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
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Project: GCP
Report Date: September 29, 2018

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CERTIFICATE OF ANALYSIS

WHI18000646.1

| | Method | Analyte | Unit | MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | | | |
|---------|--------|---------|------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|------|------|
| | | | | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| | | | | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | | | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| 1599604 | Rock | | | | 0.024 | 26 | 36 | 0.45 | 140 | 0.139 | <20 | 1.27 | 0.037 | 0.42 | <0.1 | <0.01 | 3.3 | 0.3 | <0.05 | 4 | <0.5 | <0.2 |
| 1599605 | Rock | | | | 0.035 | 28 | 46 | 0.65 | 168 | 0.213 | <20 | 1.60 | 0.058 | 0.83 | <0.1 | <0.01 | 5.3 | 0.4 | 0.07 | 7 | <0.5 | <0.2 |
| 1599606 | Rock | | | | 0.027 | 17 | 42 | 0.61 | 177 | 0.193 | <20 | 2.07 | 0.115 | 0.76 | <0.1 | <0.01 | 4.6 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599607 | Rock | | | | 0.035 | 34 | 54 | 0.63 | 259 | 0.180 | <20 | 2.08 | 0.060 | 0.58 | <0.1 | <0.01 | 5.1 | 0.2 | <0.05 | 8 | <0.5 | <0.2 |
| 1599608 | Rock | | | | 0.048 | 29 | 46 | 0.49 | 190 | 0.109 | <20 | 1.52 | 0.045 | 0.33 | <0.1 | <0.01 | 3.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 1599609 | Rock | | | | 0.029 | 21 | 50 | 0.65 | 184 | 0.200 | <20 | 1.90 | 0.040 | 0.66 | <0.1 | <0.01 | 3.5 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| 1599610 | Rock | | | | 0.033 | 23 | 32 | 0.48 | 118 | 0.137 | <20 | 1.35 | 0.025 | 0.52 | <0.1 | <0.01 | 3.2 | 0.3 | <0.05 | 5 | <0.5 | <0.2 |
| 1599611 | Rock | | | | 0.036 | 47 | 53 | 0.84 | 201 | 0.246 | <20 | 1.99 | 0.045 | 1.05 | <0.1 | <0.01 | 6.5 | 0.5 | 0.09 | 8 | <0.5 | <0.2 |
| 1599612 | Rock | | | | 0.037 | 18 | 23 | 0.58 | 113 | 0.125 | <20 | 1.20 | 0.055 | 0.50 | <0.1 | <0.01 | 3.7 | 0.2 | 0.05 | 4 | <0.5 | <0.2 |
| 1599613 | Rock | | | | 0.057 | 49 | 58 | 0.83 | 212 | 0.240 | <20 | 1.90 | 0.073 | 1.03 | <0.1 | <0.01 | 6.9 | 0.4 | 0.09 | 8 | 0.5 | <0.2 |
| 1599614 | Rock | | | | 0.032 | 39 | 46 | 0.74 | 184 | 0.214 | <20 | 1.81 | 0.044 | 0.96 | <0.1 | <0.01 | 5.3 | 0.4 | 0.07 | 6 | <0.5 | <0.2 |
| 1599615 | Rock | | | | 0.030 | 32 | 42 | 0.69 | 212 | 0.210 | <20 | 1.74 | 0.051 | 0.94 | <0.1 | <0.01 | 4.9 | 0.4 | <0.05 | 6 | 0.5 | <0.2 |
| 1599616 | Rock | | | | 0.025 | 23 | 40 | 0.56 | 171 | 0.173 | <20 | 1.52 | 0.047 | 0.65 | <0.1 | <0.01 | 4.4 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| 1599617 | Rock | | | | 0.035 | 30 | 50 | 0.81 | 210 | 0.231 | <20 | 2.02 | 0.056 | 1.01 | <0.1 | <0.01 | 5.9 | 0.5 | <0.05 | 7 | <0.5 | <0.2 |
| 1599618 | Rock | | | | 0.044 | 30 | 50 | 0.80 | 214 | 0.246 | <20 | 2.09 | 0.066 | 1.02 | <0.1 | <0.01 | 6.5 | 0.4 | <0.05 | 8 | <0.5 | <0.2 |
| 1599619 | Rock | | | | 0.046 | 33 | 52 | 0.85 | 276 | 0.263 | <20 | 2.11 | 0.062 | 1.22 | <0.1 | <0.01 | 6.1 | 0.5 | <0.05 | 7 | <0.5 | <0.2 |
| 1599620 | Rock | | | | 0.069 | 42 | 73 | 1.06 | 327 | 0.296 | <20 | 2.88 | 0.058 | 1.36 | <0.1 | <0.01 | 7.0 | 0.6 | <0.05 | 10 | <0.5 | <0.2 |
| 1599621 | Rock | | | | 0.043 | 34 | 58 | 0.99 | 295 | 0.275 | <20 | 2.54 | 0.065 | 1.30 | <0.1 | <0.01 | 6.9 | 0.5 | <0.05 | 9 | <0.5 | <0.2 |
| 1599622 | Rock | | | | 0.035 | 28 | 43 | 0.58 | 176 | 0.192 | <20 | 1.38 | 0.037 | 0.70 | <0.1 | <0.01 | 6.5 | 0.3 | <0.05 | 7 | <0.5 | <0.2 |
| 1599623 | Rock | | | | 0.044 | 23 | 63 | 0.82 | 227 | 0.234 | <20 | 1.80 | 0.050 | 1.04 | <0.1 | <0.01 | 7.4 | 0.5 | <0.05 | 8 | <0.5 | <0.2 |
| 1599624 | Rock | | | | 0.031 | 40 | 56 | 0.79 | 202 | 0.238 | <20 | 1.65 | 0.055 | 1.04 | <0.1 | <0.01 | 7.5 | 0.5 | <0.05 | 8 | <0.5 | <0.2 |
| 1599625 | Rock | | | | 0.029 | 33 | 39 | 0.66 | 247 | 0.226 | <20 | 1.71 | 0.041 | 1.11 | <0.1 | <0.01 | 3.9 | 0.4 | 0.06 | 5 | <0.5 | <0.2 |
| 1599626 | Rock | | | | 0.007 | 1 | <1 | 0.91 | 15 | 0.002 | <20 | 0.02 | 0.002 | 0.02 | <0.1 | <0.01 | 0.3 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| 1599627 | Rock | | | | 0.045 | 34 | 49 | 0.82 | 332 | 0.230 | <20 | 1.95 | 0.072 | 1.12 | <0.1 | <0.01 | 5.8 | 0.5 | 0.09 | 7 | 0.8 | <0.2 |
| 1599628 | Rock | | | | 0.035 | 34 | 66 | 1.16 | 290 | 0.300 | <20 | 2.27 | 0.074 | 1.40 | <0.1 | <0.01 | 8.0 | 0.6 | <0.05 | 9 | <0.5 | <0.2 |
| 1599629 | Rock | | | | 0.027 | 42 | 62 | 1.00 | 365 | 0.272 | <20 | 2.36 | 0.057 | 1.28 | <0.1 | <0.01 | 7.9 | 0.5 | <0.05 | 8 | <0.5 | <0.2 |
| 1599630 | Rock | | | | 0.014 | 20 | 28 | 0.46 | 174 | 0.126 | <20 | 1.05 | 0.022 | 0.64 | <0.1 | <0.01 | 2.7 | 0.3 | 0.07 | 3 | <0.5 | <0.2 |
| 1599631 | Rock | | | | 0.099 | 29 | 29 | 0.31 | 2146 | 0.050 | <20 | 1.12 | 0.032 | 0.40 | <0.1 | 0.03 | 6.2 | 0.2 | 0.06 | 4 | <0.5 | <0.2 |
| 1599632 | Rock | | | | 0.048 | 29 | 67 | 0.88 | 2032 | 0.175 | <20 | 2.09 | 0.030 | 0.99 | <0.1 | 0.02 | 6.8 | 0.6 | 0.08 | 7 | <0.5 | <0.2 |
| 1599633 | Rock | | | | 0.019 | 18 | 23 | 0.25 | 1884 | 0.061 | <20 | 0.76 | 0.023 | 0.22 | <0.1 | <0.01 | 3.5 | 0.1 | 0.05 | 3 | <0.5 | <0.2 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP
Report Date: September 29, 2018

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI18000646.1

| | Method Analyte Unit MDL | WGHT | FA430 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 0.005 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 |
| 1599634 | Rock | 0.44 | <0.005 | 1.2 | 38.6 | 11.1 | 45 | <0.1 | 27.3 | 13.7 | 470 | 2.54 | 3.6 | 0.9 | 9.5 | 37 | <0.1 | 0.2 | <0.1 | 32 | 0.13 |
| 1599635 | Rock | 0.84 | 0.008 | 2.4 | 50.4 | 10.6 | 82 | <0.1 | 43.9 | 17.6 | 822 | 3.67 | 3.4 | 3.9 | 10.7 | 27 | <0.1 | 0.2 | <0.1 | 43 | 0.31 |
| 1599636 | Rock | 0.86 | <0.005 | 1.3 | 48.7 | 6.9 | 71 | <0.1 | 40.2 | 16.4 | 855 | 3.39 | 1.1 | <0.5 | 7.4 | 23 | <0.1 | <0.1 | <0.1 | 87 | 0.29 |
| 1599637 | Rock | 0.86 | <0.005 | 0.7 | 38.0 | 5.5 | 42 | <0.1 | 16.8 | 7.9 | 452 | 3.40 | <0.5 | <0.5 | 11.0 | 27 | <0.1 | <0.1 | <0.1 | 31 | 0.09 |
| 1599638 | Rock | 0.76 | <0.005 | 1.0 | 29.5 | 5.5 | 44 | <0.1 | 21.0 | 12.9 | 468 | 3.00 | 2.1 | <0.5 | 10.1 | 34 | <0.1 | 0.1 | <0.1 | 45 | 0.18 |
| 1599639 | Rock | 0.73 | <0.005 | 0.6 | 29.7 | 5.3 | 60 | <0.1 | 36.1 | 18.5 | 468 | 3.38 | 1.1 | <0.5 | 11.7 | 54 | 0.1 | <0.1 | <0.1 | 68 | 0.51 |
| 1599640 | Rock | 0.69 | <0.005 | 0.9 | 28.3 | 5.6 | 54 | <0.1 | 20.7 | 9.4 | 400 | 3.01 | 2.7 | <0.5 | 11.4 | 32 | <0.1 | 0.1 | <0.1 | 59 | 0.23 |
| 1599641 | Rock | 0.87 | <0.005 | 1.1 | 53.3 | 6.2 | 94 | <0.1 | 75.3 | 22.1 | 1054 | 4.26 | 0.8 | <0.5 | 7.1 | 24 | <0.1 | <0.1 | 0.1 | 108 | 0.36 |
| 1599642 | Rock | 0.89 | <0.005 | 1.0 | 51.9 | 17.7 | 48 | <0.1 | 44.0 | 14.7 | 562 | 2.97 | 3.7 | 0.6 | 11.8 | 19 | 0.1 | <0.1 | 0.3 | 42 | 0.18 |
| 1599643 | Rock | 0.73 | <0.005 | 0.7 | 50.9 | 12.6 | 37 | <0.1 | 25.3 | 10.3 | 385 | 2.54 | 1.0 | 0.6 | 8.9 | 32 | <0.1 | <0.1 | <0.1 | 50 | 0.15 |
| 1599644 | Rock | 0.80 | <0.005 | 0.8 | 34.0 | 6.1 | 44 | <0.1 | 20.0 | 8.7 | 467 | 3.06 | <0.5 | <0.5 | 12.8 | 39 | <0.1 | <0.1 | <0.1 | 58 | 0.23 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP
Report Date: September 29, 2018

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CERTIFICATE OF ANALYSIS

WHI18000646.1

| | Method Analyte Unit MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|---------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| 1599634 | Rock | 0.020 | 25 | 30 | 0.30 | 1909 | 0.058 | <20 | 1.01 | 0.022 | 0.29 | <0.1 | <0.01 | 4.9 | 0.1 | <0.05 | 4 | <0.5 | <0.2 |
| 1599635 | Rock | 0.093 | 36 | 35 | 0.72 | 1320 | 0.055 | <20 | 1.53 | 0.014 | 0.55 | 0.1 | 0.02 | 6.0 | 0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 1599636 | Rock | 0.091 | 27 | 60 | 1.29 | 827 | 0.216 | <20 | 2.40 | 0.028 | 1.23 | <0.1 | <0.01 | 8.8 | 0.5 | <0.05 | 9 | <0.5 | <0.2 |
| 1599637 | Rock | 0.034 | 29 | 35 | 0.75 | 717 | 0.185 | <20 | 1.72 | 0.015 | 1.01 | <0.1 | <0.01 | 4.1 | 0.4 | <0.05 | 5 | <0.5 | <0.2 |
| 1599638 | Rock | 0.024 | 28 | 44 | 0.69 | 607 | 0.166 | <20 | 1.66 | 0.028 | 0.66 | <0.1 | 0.01 | 5.0 | 0.3 | <0.05 | 5 | <0.5 | <0.2 |
| 1599639 | Rock | 0.062 | 24 | 164 | 1.48 | 643 | 0.236 | <20 | 2.32 | 0.030 | 1.11 | <0.1 | <0.01 | 7.8 | 0.5 | <0.05 | 7 | <0.5 | <0.2 |
| 1599640 | Rock | 0.035 | 30 | 45 | 0.71 | 522 | 0.190 | <20 | 1.80 | 0.045 | 0.76 | <0.1 | 0.01 | 6.3 | 0.3 | <0.05 | 6 | <0.5 | <0.2 |
| 1599641 | Rock | 0.081 | 25 | 100 | 2.01 | 1129 | 0.306 | <20 | 3.21 | 0.020 | 1.85 | <0.1 | 0.02 | 8.6 | 0.8 | <0.05 | 11 | <0.5 | <0.2 |
| 1599642 | Rock | 0.037 | 35 | 40 | 0.58 | 528 | 0.063 | <20 | 1.43 | 0.016 | 0.52 | <0.1 | <0.01 | 4.4 | 0.2 | <0.05 | 5 | <0.5 | <0.2 |
| 1599643 | Rock | 0.018 | 18 | 41 | 0.56 | 949 | 0.111 | <20 | 1.10 | 0.028 | 0.38 | <0.1 | <0.01 | 5.2 | 0.2 | <0.05 | 6 | <0.5 | <0.2 |
| 1599644 | Rock | 0.023 | 33 | 54 | 0.93 | 602 | 0.217 | <20 | 2.01 | 0.061 | 0.97 | <0.1 | <0.01 | 6.9 | 0.4 | <0.05 | 7 | <0.5 | <0.2 |



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP
Report Date: September 29, 2018

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QUALITY CONTROL REPORT

WHI18000646.1

| | Method Analyte Unit MDL | WGHT | FA430 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------------|----------------------------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 0.005 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1599537 | Rock | 0.76 | <0.005 | 0.8 | 19.3 | 13.7 | 63 | <0.1 | 9.5 | 9.1 | 676 | 3.18 | 2.6 | <0.5 | 7.0 | 28 | <0.1 | 0.2 | 0.1 | 44 | 0.20 |
| REP 1599537 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| 1599539 | Rock | 0.80 | <0.005 | 0.5 | 41.1 | 29.3 | 72 | <0.1 | 10.4 | 15.7 | 894 | 3.97 | 1.6 | <0.5 | 6.5 | 22 | <0.1 | <0.1 | 0.1 | 93 | 0.36 |
| REP 1599539 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| REP 1599557 | QC | | | 0.2 | 16.1 | 6.0 | 72 | <0.1 | 11.2 | 12.8 | 710 | 3.34 | 0.7 | 1.0 | 3.6 | 35 | <0.1 | 0.1 | <0.1 | 76 | 0.40 |
| REP 1599608 | QC | | | 0.5 | 16.7 | 24.7 | 48 | <0.1 | 27.5 | 9.4 | 458 | 2.48 | 0.7 | <0.5 | 11.9 | 36 | <0.1 | <0.1 | 0.3 | 35 | 0.35 |
| 1599629 | Rock | 0.88 | <0.005 | 0.6 | 22.9 | 5.5 | 59 | <0.1 | 27.2 | 13.3 | 585 | 3.71 | 0.5 | <0.5 | 14.7 | 43 | <0.1 | <0.1 | <0.1 | 57 | 0.18 |
| REP 1599629 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| 1599631 | Rock | 0.74 | <0.005 | 1.4 | 84.7 | 15.4 | 59 | <0.1 | 33.8 | 15.8 | 340 | 3.13 | 14.6 | <0.5 | 10.6 | 93 | <0.1 | 0.4 | <0.1 | 41 | 0.26 |
| REP 1599631 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| REP 1599642 | QC | | | 1.0 | 48.2 | 17.1 | 45 | <0.1 | 42.9 | 14.2 | 557 | 2.86 | 3.7 | <0.5 | 11.8 | 19 | <0.1 | 0.1 | 0.3 | 40 | 0.18 |
| 1599644 | Rock | 0.80 | <0.005 | 0.8 | 34.0 | 6.1 | 44 | <0.1 | 20.0 | 8.7 | 467 | 3.06 | <0.5 | <0.5 | 12.8 | 39 | <0.1 | <0.1 | <0.1 | 58 | 0.23 |
| REP 1599644 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | | | |
| 1599557 | Rock | 0.89 | <0.005 | 0.3 | 15.7 | 6.1 | 71 | <0.1 | 10.9 | 12.1 | 704 | 3.36 | <0.5 | <0.5 | 3.7 | 34 | <0.1 | <0.1 | <0.1 | 76 | 0.39 |
| DUP 1599557 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| 1599608 | Rock | 0.50 | <0.005 | 0.5 | 16.2 | 24.6 | 50 | <0.1 | 26.7 | 9.6 | 461 | 2.55 | 0.6 | <0.5 | 11.8 | 36 | <0.1 | <0.1 | 0.3 | 35 | 0.35 |
| DUP 1599608 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| 1599642 | Rock | 0.89 | <0.005 | 1.0 | 51.9 | 17.7 | 48 | <0.1 | 44.0 | 14.7 | 562 | 2.97 | 3.7 | 0.6 | 11.8 | 19 | 0.1 | <0.1 | 0.3 | 42 | 0.18 |
| DUP 1599642 | QC | <0.005 | | | | | | | | | | | | | | | | | | | |
| Reference Materials | | | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | | | 15.3 | 145.7 | 137.5 | 336 | 1.6 | 77.7 | 13.4 | 986 | 2.99 | 41.0 | 85.4 | 7.9 | 67 | 2.1 | 7.4 | 11.6 | 46 | 1.02 |
| STD DS11 | Standard | | | 14.3 | 148.5 | 136.6 | 329 | 1.6 | 77.0 | 12.9 | 994 | 3.05 | 42.0 | 50.7 | 7.4 | 71 | 2.4 | 7.7 | 11.5 | 47 | 1.03 |
| STD DS11 | Standard | | | 13.5 | 145.1 | 136.6 | 348 | 1.6 | 76.9 | 13.2 | 998 | 3.00 | 42.0 | 40.7 | 7.4 | 69 | 2.6 | 7.2 | 11.6 | 47 | 1.04 |
| STD OREAS45EA | Standard | | | 1.3 | 686.1 | 13.4 | 31 | 0.2 | 395.5 | 50.9 | 391 | 20.69 | 10.4 | 49.4 | 10.3 | 4 | <0.1 | 0.3 | 0.2 | 302 | 0.03 |
| STD OREAS45EA | Standard | | | 1.6 | 700.2 | 13.6 | 31 | 0.2 | 401.5 | 50.6 | 400 | 20.91 | 10.6 | 54.4 | 10.1 | 4 | <0.1 | 0.2 | 0.3 | 307 | 0.03 |
| STD OREAS45EA | Standard | | | 1.5 | 708.3 | 14.4 | 32 | 0.2 | 401.3 | 52.2 | 401 | 21.21 | 10.8 | 50.1 | 10.8 | 4 | <0.1 | 0.3 | 0.3 | 300 | 0.03 |
| STD OXC145 | Standard | 0.211 | | | | | | | | | | | | | | | | | | | |



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PHONE (604) 253-3158

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QUALITY CONTROL REPORT

WHI18000646.1

| | Method Analyte Unit MDL | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| Pulp Duplicates | | | | | | | | | | | | | | | | | | | |
| 1599537 | Rock | 0.037 | 19 | 20 | 0.63 | 1147 | 0.126 | <20 | 1.39 | 0.052 | 0.46 | 0.2 | <0.01 | 7.5 | 0.2 | <0.05 | 5 | <0.5 | <0.2 |
| REP 1599537 | QC | | | | | | | | | | | | | | | | | | |
| 1599539 | Rock | 0.067 | 17 | 29 | 1.81 | 445 | 0.287 | <20 | 2.51 | 0.034 | 1.41 | 0.1 | <0.01 | 9.3 | 0.3 | <0.05 | 9 | <0.5 | <0.2 |
| REP 1599539 | QC | | | | | | | | | | | | | | | | | | |
| REP 1599557 | QC | 0.053 | 16 | 37 | 0.74 | 738 | 0.106 | <20 | 1.13 | 0.058 | 0.31 | 0.2 | <0.01 | 12.1 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| REP 1599608 | QC | 0.047 | 30 | 46 | 0.49 | 186 | 0.109 | <20 | 1.53 | 0.044 | 0.32 | <0.1 | <0.01 | 3.5 | <0.1 | <0.05 | 7 | <0.5 | <0.2 |
| 1599629 | Rock | 0.027 | 42 | 62 | 1.00 | 365 | 0.272 | <20 | 2.36 | 0.057 | 1.28 | <0.1 | <0.01 | 7.9 | 0.5 | <0.05 | 8 | <0.5 | <0.2 |
| REP 1599629 | QC | | | | | | | | | | | | | | | | | | |
| 1599631 | Rock | 0.099 | 29 | 29 | 0.31 | 2146 | 0.050 | <20 | 1.12 | 0.032 | 0.40 | <0.1 | 0.03 | 6.2 | 0.2 | 0.06 | 4 | <0.5 | <0.2 |
| REP 1599631 | QC | | | | | | | | | | | | | | | | | | |
| REP 1599642 | QC | 0.038 | 33 | 38 | 0.57 | 516 | 0.062 | <20 | 1.39 | 0.015 | 0.51 | <0.1 | <0.01 | 4.1 | 0.2 | <0.05 | 5 | <0.5 | <0.2 |
| 1599644 | Rock | 0.023 | 33 | 54 | 0.93 | 602 | 0.217 | <20 | 2.01 | 0.061 | 0.97 | <0.1 | <0.01 | 6.9 | 0.4 | <0.05 | 7 | <0.5 | <0.2 |
| REP 1599644 | QC | | | | | | | | | | | | | | | | | | |
| Core Reject Duplicates | | | | | | | | | | | | | | | | | | | |
| 1599557 | Rock | 0.050 | 16 | 37 | 0.74 | 742 | 0.105 | <20 | 1.12 | 0.057 | 0.31 | 0.1 | 0.01 | 12.2 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| DUP 1599557 | QC | 0.051 | 16 | 38 | 0.75 | 726 | 0.106 | <20 | 1.13 | 0.056 | 0.31 | 0.1 | 0.01 | 12.3 | 0.1 | <0.05 | 5 | <0.5 | <0.2 |
| 1599608 | Rock | 0.048 | 29 | 46 | 0.49 | 190 | 0.109 | <20 | 1.52 | 0.045 | 0.33 | <0.1 | <0.01 | 3.5 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| DUP 1599608 | QC | 0.041 | 27 | 41 | 0.45 | 168 | 0.098 | <20 | 1.37 | 0.042 | 0.30 | <0.1 | <0.01 | 3.1 | <0.1 | <0.05 | 6 | <0.5 | <0.2 |
| 1599642 | Rock | 0.037 | 35 | 40 | 0.58 | 528 | 0.063 | <20 | 1.43 | 0.016 | 0.52 | <0.1 | <0.01 | 4.4 | 0.2 | <0.05 | 5 | <0.5 | <0.2 |
| DUP 1599642 | QC | 0.039 | 34 | 41 | 0.63 | 552 | 0.068 | <20 | 1.55 | 0.017 | 0.55 | <0.1 | <0.01 | 4.5 | 0.2 | <0.05 | 5 | <0.5 | <0.2 |
| Reference Materials | | | | | | | | | | | | | | | | | | | |
| STD DS11 | Standard | 0.068 | 18 | 57 | 0.81 | 405 | 0.095 | <20 | 1.10 | 0.071 | 0.39 | 2.3 | 0.23 | 3.2 | 4.8 | 0.27 | 5 | 2.1 | 4.3 |
| STD DS11 | Standard | 0.067 | 19 | 57 | 0.80 | 420 | 0.096 | <20 | 1.13 | 0.072 | 0.40 | 2.4 | 0.26 | 3.3 | 4.7 | 0.27 | 5 | 1.8 | 4.5 |
| STD DS11 | Standard | 0.073 | 17 | 55 | 0.80 | 419 | 0.088 | <20 | 1.10 | 0.068 | 0.39 | 2.2 | 0.25 | 3.2 | 4.7 | 0.27 | 5 | 2.1 | 4.3 |
| STD OREAS45EA | Standard | 0.030 | 6 | 806 | 0.10 | 129 | 0.101 | <20 | 3.28 | 0.019 | 0.06 | <0.1 | 0.01 | 78.2 | <0.1 | <0.05 | 12 | 1.0 | <0.2 |
| STD OREAS45EA | Standard | 0.031 | 7 | 806 | 0.10 | 138 | 0.100 | <20 | 3.35 | 0.019 | 0.06 | <0.1 | 0.01 | 81.1 | <0.1 | <0.05 | 12 | 1.7 | <0.2 |
| STD OREAS45EA | Standard | 0.031 | 7 | 834 | 0.10 | 142 | 0.102 | <20 | 3.24 | 0.016 | 0.05 | <0.1 | 0.01 | 82.0 | <0.1 | <0.05 | 13 | 1.2 | <0.2 |
| STD OXC145 | Standard | | | | | | | | | | | | | | | | | | |



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www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Pacific Ridge Exploration Ltd.**
Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP
Report Date: September 29, 2018

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Part: 1 of 2

QUALITY CONTROL REPORT

WHI18000646.1

| | | WGHT | FA430 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 |
|------------------------|------------|------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | Wgt | Au | Mo | Cu | Pb | Zn | Ag | Ni | Co | Mn | Fe | As | Au | Th | Sr | Cd | Sb | Bi | V | Ca |
| | | kg | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppb | ppm | ppm | ppm | ppm | ppm | ppm | % |
| | | 0.01 | 0.005 | 0.1 | 0.1 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 | 0.5 | 0.5 | 0.1 | 1 | 0.1 | 0.1 | 0.1 | 1 | 0.01 |
| STD OXC145 | Standard | | 0.204 | | | | | | | | | | | | | | | | | | |
| STD OXC145 | Standard | | 0.199 | | | | | | | | | | | | | | | | | | |
| STD OXH139 | Standard | | 1.298 | | | | | | | | | | | | | | | | | | |
| STD OXH139 | Standard | | 1.314 | | | | | | | | | | | | | | | | | | |
| STD OXH139 | Standard | | 1.274 | | | | | | | | | | | | | | | | | | |
| STD OXN134 | Standard | | 7.434 | | | | | | | | | | | | | | | | | | |
| STD OXN134 | Standard | | 7.623 | | | | | | | | | | | | | | | | | | |
| STD OXN134 | Standard | | 7.517 | | | | | | | | | | | | | | | | | | |
| STD OREAS45EA Expected | | | | 1.6 | 709 | 14.3 | 31.4 | 0.26 | 381 | 52 | 400 | 22.65 | 11.4 | 53 | 10.7 | 4.05 | 0.03 | 0.32 | 0.26 | 303 | 0.036 |
| STD DS11 Expected | | | | 13.9 | 149 | 138 | 345 | 1.71 | 77.7 | 14.2 | 1055 | 3.1 | 42.8 | 79 | 7.65 | 67.3 | 2.37 | 7.2 | 12.2 | 50 | 1.063 |
| STD OXN134 Expected | | | 7.667 | | | | | | | | | | | | | | | | | | |
| STD OXC145 Expected | | | 0.212 | | | | | | | | | | | | | | | | | | |
| STD OXH139 Expected | | | 1.312 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 |
| BLK | Blank | | | <0.1 | <0.1 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 | <0.5 | <0.5 | <0.1 | <1 | <0.1 | <0.1 | <0.1 | <1 | <0.01 |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | <0.005 | | | | | | | | | | | | | | | | | | |
| Prep Wash | | | | | | | | | | | | | | | | | | | | | |
| ROCK-WHI | Prep Blank | | <0.005 | 1.1 | 4.1 | 1.3 | 34 | <0.1 | 2.0 | 3.5 | 522 | 1.75 | 1.3 | <0.5 | 2.1 | 28 | <0.1 | <0.1 | <0.1 | 21 | 0.65 |
| ROCK-WHI | Prep Blank | | <0.005 | 1.0 | 4.7 | 1.2 | 35 | <0.1 | 0.7 | 3.3 | 524 | 1.69 | 1.2 | <0.5 | 1.9 | 26 | <0.1 | <0.1 | <0.1 | 19 | 0.61 |



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Pacific Ridge Exploration Ltd.

Suite 1100, 1111 Melville St,
Vancouver British Columbia V6E 3V6 Canada

Project: GCP

Report Date: September 29, 2018

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Part: 2 of 2

QUALITY CONTROL REPORT

WHI18000646.1

| | | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | AQ200 | |
|------------------------|------------|--------|-------|-------|-------|-------|--------|-------|-------|--------|-------|-------|-------|-------|-------|--------|-------|-------|------|
| | | P | La | Cr | Mg | Ba | Ti | B | Al | Na | K | W | Hg | Sc | Tl | S | Ga | Se | Te |
| | | % | ppm | ppm | % | ppm | % | ppm | % | % | % | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm |
| | | 0.001 | 1 | 1 | 0.01 | 1 | 0.001 | 20 | 0.01 | 0.001 | 0.01 | 0.1 | 0.01 | 0.1 | 0.1 | 0.05 | 1 | 0.5 | 0.2 |
| STD OXC145 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXC145 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXH139 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXH139 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXH139 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXN134 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXN134 | Standard | | | | | | | | | | | | | | | | | | |
| STD OXN134 | Standard | | | | | | | | | | | | | | | | | | |
| STD OREAS45EA Expected | | 0.029 | 7.06 | 849 | 0.095 | 148 | 0.0984 | | 3.32 | 0.02 | 0.053 | | | 78 | 0.072 | 0.036 | 12.4 | 0.78 | 0.1 |
| STD DS11 Expected | | 0.0701 | 18.6 | 61.5 | 0.85 | 417 | 0.0976 | | 1.129 | 0.0694 | 0.4 | 2.9 | 0.26 | 3.1 | 4.9 | 0.2835 | 4.7 | 2.2 | 4.56 |
| STD OXN134 Expected | | | | | | | | | | | | | | | | | | | |
| STD OXC145 Expected | | | | | | | | | | | | | | | | | | | |
| STD OXH139 Expected | | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | <0.001 | <1 | <1 | <0.01 | <1 | <0.001 | <20 | <0.01 | <0.001 | <0.01 | <0.1 | <0.01 | <0.1 | <0.1 | <0.05 | <1 | <0.5 | <0.2 |
| BLK | Blank | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | |
| BLK | Blank | | | | | | | | | | | | | | | | | | |
| Prep Wash | | | | | | | | | | | | | | | | | | | |
| ROCK-WHI | Prep Blank | 0.042 | 6 | 5 | 0.48 | 61 | 0.078 | <20 | 0.92 | 0.073 | 0.09 | <0.1 | <0.01 | 2.8 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |
| ROCK-WHI | Prep Blank | 0.037 | 6 | 3 | 0.47 | 56 | 0.073 | <20 | 0.93 | 0.071 | 0.08 | <0.1 | <0.01 | 2.7 | <0.1 | <0.05 | 4 | <0.5 | <0.2 |