ALS Canada Ltd.

2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: **OSISKO HAMMOND REEF GOLD LTD.**
**1100, DE LA GAUCHETIÈRE OUEST, BUREAU 300**
**C.P. 211**
**MONTRÉAL QC H3B 2S2**


**Finalized Date: 13-AUG-2012**
**Account: OSIHRG**

# CERTIFICATE TB12160227

Project: HAMMOND REEF-EXPLORATION

P.O. No.:

This report is for 19 Soil samples submitted to our lab in Thunder Bay, ON, Canada on 10-JUL-2012.

The following have access to data associated with this certificate:

| | | |
|---|---|---|
| SERGIO CATTALANI | ANNE CHARLAND | MIKE FELL |
| ZORAN MADON | ASSAYS REPOSITORY | ADAM RICHARDSON |
| ANDREW STOKES | BOB WARES | |

## SAMPLE PREPARATION

| ALS CODE | DESCRIPTION |
|---|---|
| WEI-21 | Received Sample Weight |
| DRY-21 | High Temperature Drying |
| LOG-23 | Pulp Login - Rcvd with Barcode |
| LOG-21 | Sample logging - ClientBarCode |
| SCR-42e | Screen to -2mm, discard plus |
| QAR-01 | Quarantine Treatment Charge |

## ANALYTICAL PROCEDURES

| ALS CODE | DESCRIPTION | INSTRUMENT |
|---|---|---|
| ME-MS23 | IONIC Leach - Complete PKG. | ICP-MS |
| pH-MS23 | MS23 Leach pH | |
| Au-CN11 | BLEG on 500g - bottle roll | ICP-MS |

To: **OSISKO HAMMOND REEF GOLD LTD.**
**ATTN: ANDREW STOKES**
**101 GOODWIN STREET**
**BOX 2020**
**ATIKOKAN ON P0T 1C0**

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:**

Wayne Abbott, Operations Manager, Western Australia

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# CERTIFICATE OF ANALYSIS TB12160227

| Sample Description | Method / Analyte / Units / LOR | WEI-21 Recvd Wt. kg 0.02 | Au-CN11 Au ppm 0.001 | ME-MS23 Ag ppb 0.1 | ME-MS23 As ppb 2 | ME-MS23 Au ppb 0.02 | ME-MS23 Ba ppb 10 | ME-MS23 Be ppb 0.2 | ME-MS23 Bi ppb 3 | ME-MS23 Br ppm 0.05 | ME-MS23 Ca ppm 0.2 | ME-MS23 Cd ppb 1 | ME-MS23 Ce ppb 0.1 | ME-MS23 Co ppb 0.3 | ME-MS23 Cr ppb 1 | ME-MS23 Cs ppb 0.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275351 | | 2.81 | 0.004 | 4.3 | <2 | 0.87 | 2170 | <0.2 | <3 | <0.05 | 322 | 1 | 41.1 | 65.0 | 2 | 0.3 |
| I275352 | | 2.06 | 0.102 | 11.0 | 21 | 0.47 | 1330 | 8.6 | <3 | 0.48 | 42.3 | 5 | 507 | 53.7 | 130 | 11.9 |
| I275353 | | 1.56 | 0.003 | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275354 | | 2.40 | 0.008 | 8.2 | 17 | 1.63 | 660 | 4.9 | <3 | 0.50 | 10.9 | 1 | 526 | 47.2 | 107 | 16.0 |
| I275355 | | 1.94 | 0.003 | 8.2 | 19 | 0.36 | 3540 | 5.1 | <3 | 0.28 | 83.0 | 5 | 434 | 80.2 | 82 | 9.2 |
| I275356 | | 1.74 | 0.016 | 7.4 | 28 | 1.55 | 700 | 10.2 | <3 | 0.57 | 36.8 | 3 | 492 | 68.1 | 185 | 6.0 |
| I275357 | | 1.96 | 0.009 | 3.2 | 23 | 3.61 | 1580 | 4.2 | <3 | 0.23 | 80.4 | 1 | 2060 | 135.0 | 185 | 4.0 |
| I275358 | | 2.40 | 0.005 | 15.2 | 28 | 0.82 | 1540 | 2.3 | <3 | 0.36 | 124.0 | 4 | 582 | 120.0 | 139 | 11.5 |
| I275359 | | 1.61 | 0.001 | 5.4 | 19 | 1.98 | 260 | 1.6 | <3 | 0.15 | 26.9 | 1 | 546 | 23.1 | 31 | 11.6 |
| I275360 | | 1.53 | 0.002 | 5.2 | 19 | 0.26 | 3110 | 11.0 | <3 | 0.25 | 74.1 | 7 | 429 | 167.0 | 183 | 12.2 |
| I275361 | | 1.77 | 0.004 | 6.7 | 18 | 0.60 | 2540 | 4.7 | <3 | 0.18 | 126.5 | 1 | 693 | 79.8 | 126 | 8.5 |
| I275362 | | 2.94 | 0.007 | 6.9 | 22 | 1.02 | 1710 | 4.7 | <3 | 0.57 | 17.7 | 1 | 942 | 115.5 | 103 | 10.6 |
| I275363 | | 2.14 | 0.045 | 2.2 | 19 | 0.63 | 1320 | 8.5 | <3 | 0.37 | 12.7 | 2 | 1210 | 54.9 | 68 | 22.9 |
| I275364 | | 0.68 | 0.432 | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275365 | | 1.80 | 0.002 | 4.6 | 16 | 1.20 | 240 | 1.4 | <3 | 0.14 | 25.8 | 1 | 582 | 27.1 | 34 | 11.2 |
| I275366 | | 2.33 | 0.010 | 9.9 | 19 | 1.71 | 660 | 7.6 | <3 | 0.54 | 14.1 | 2 | 585 | 51.2 | 145 | 16.8 |
| I275367 | | 1.76 | 0.004 | 4.8 | 20 | 1.50 | 220 | 1.0 | <3 | 0.12 | 24.4 | 1 | 505 | 19.4 | 23 | 10.1 |
| I275368 | | 1.65 | 0.024 | 16.2 | 17 | 10.10 | 1400 | 4.9 | <3 | 0.31 | 59.9 | 1 | 448 | 50.9 | 62 | 11.5 |
| I275369 | | 1.52 | 0.004 | 5.2 | 21 | 1.20 | 210 | 1.6 | <3 | 0.12 | 30.9 | 1 | 471 | 31.5 | 39 | 9.1 |

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**Finalized Date: 13-AUG-2012**
**Account: OSIHRG**

Project: HAMMOND REEF-EXPLORATION

# CERTIFICATE OF ANALYSIS TB12160227

| Sample Description | Method | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Cu | Dy | Er | Eu | Fe | Ga | Gd | Ge | Hf | Hg | Ho | I | In | La | Li |
| | Units | ppb | ppb | ppb | ppb | ppm | ppb | ppb | ppb | ppb | ppb | ppb | ppm | ppb | ppb | ppb |
| | LOR | 1 | 0.1 | 0.1 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 | 0.5 | 0.1 | 0.1 | 0.01 | 0.1 | 0.1 | 0.2 |
| I275351 | | 1100 | 59.5 | 26.7 | 19.6 | 4.7 | 47.9 | 89.2 | 0.4 | 0.5 | 0.9 | 11.0 | 0.05 | <0.1 | 68.4 | 2.2 |
| I275352 | | 609 | 32.9 | 15.8 | 11.4 | 85.4 | 104.0 | 46.8 | 1.3 | 3.6 | 0.9 | 5.9 | 0.25 | 0.2 | 175.0 | 20.8 |
| I275353 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275354 | | 1430 | 42.3 | 18.8 | 12.7 | 115.0 | 57.7 | 56.9 | 1.1 | 4.8 | 0.5 | 7.3 | 0.12 | 0.2 | 264 | 12.1 |
| I275355 | | 832 | 24.1 | 11.4 | 9.9 | 58.4 | 164.0 | 36.5 | 0.9 | 3.2 | 0.6 | 4.2 | 0.24 | 0.1 | 188.5 | 10.5 |
| I275356 | | 707 | 34.1 | 14.1 | 13.4 | 90.8 | 64.3 | 60.5 | 1.0 | 4.2 | 2.3 | 5.5 | 0.29 | 0.2 | 286 | 6.0 |
| I275357 | | 709 | 59.9 | 27.1 | 30.3 | 140.5 | 80.8 | 129.0 | 2.7 | 4.2 | 1.0 | 10.1 | 0.15 | 0.1 | 946 | 22.8 |
| I275358 | | 1180 | 42.7 | 22.0 | 18.3 | 94.9 | 88.8 | 72.7 | 1.8 | 3.7 | 1.1 | 7.9 | 0.22 | 0.1 | 307 | 28.9 |
| I275359 | | 1580 | 37.3 | 16.7 | 19.3 | 16.9 | 23.0 | 77.3 | 1.4 | 1.7 | 0.8 | 6.0 | 0.09 | <0.1 | 373 | 2.0 |
| I275360 | | 286 | 28.0 | 14.5 | 9.2 | 142.5 | 166.0 | 35.6 | 1.8 | 4.5 | 0.8 | 5.3 | 0.14 | 0.3 | 219 | 50.2 |
| I275361 | | 1190 | 53.3 | 25.1 | 20.2 | 96.7 | 103.5 | 84.6 | 1.2 | 4.5 | 0.6 | 9.4 | 0.07 | 0.1 | 371 | 8.3 |
| I275362 | | 2300 | 87.1 | 38.8 | 40.5 | 51.3 | 96.0 | 153.5 | 2.9 | 3.2 | 0.7 | 14.5 | 0.21 | 0.1 | 605 | 9.0 |
| I275363 | | 1820 | 86.6 | 44.9 | 27.4 | 68.9 | 72.3 | 127.5 | 2.2 | 3.0 | 0.4 | 16.7 | 0.08 | 0.2 | 516 | 9.7 |
| I275364 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275365 | | 1510 | 36.3 | 15.9 | 18.8 | 19.7 | 23.5 | 77.9 | 1.4 | 1.6 | 0.7 | 6.1 | 0.09 | <0.1 | 372 | 2.9 |
| I275366 | | 1310 | 36.0 | 15.8 | 13.0 | 142.0 | 72.7 | 56.2 | 1.4 | 5.0 | 0.5 | 6.2 | 0.16 | 0.2 | 272 | 22.6 |
| I275367 | | 1580 | 38.7 | 16.7 | 19.5 | 16.1 | 20.0 | 80.0 | 1.4 | 1.4 | 0.9 | 6.2 | 0.07 | <0.1 | 377 | 1.3 |
| I275368 | | 1560 | 56.4 | 24.7 | 22.3 | 28.1 | 66.9 | 77.3 | 1.0 | 4.0 | 0.8 | 9.6 | 0.23 | <0.1 | 291 | 4.2 |
| I275369 | | 1790 | 35.9 | 16.1 | 18.5 | 21.3 | 19.5 | 74.0 | 1.2 | 1.6 | 0.6 | 6.0 | 0.08 | <0.1 | 315 | 2.9 |

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**Finalized Date: 13-AUG-2012**
**Account: OSIHRG**

Project: HAMMOND REEF-EXPLORATION

# CERTIFICATE OF ANALYSIS TB12160227

| Sample Description | Method / Analyte / Units / LOR | ME-MS23 Lu ppb 0.1 | ME-MS23 Mg ppm 0.01 | ME-MS23 Mn ppm 0.01 | ME-MS23 Mo ppb 0.5 | ME-MS23 Nb ppb 0.1 | ME-MS23 Nd ppb 0.1 | ME-MS23 Ni ppb 1 | ME-MS23 Pb ppb 1 | ME-MS23 Pb 206 ppb 1 | ME-MS23 Pb 207 ppb 1 | ME-MS23 Pb 208 ppb 1 | ME-MS23 Pd ppb 0.1 | ME-MS23 Pr ppb 0.1 | ME-MS23 Pt ppb 0.1 | ME-MS23 Rb ppb 0.1 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| I275351 | | 2.3 | 199.5 | 1.76 | 2.6 | 0.2 | 204 | 219 | 8 | 2 | 1 | 5 | 1.8 | 23.2 | <0.1 | 61.7 |
| I275352 | | 1.5 | 9.36 | 2.27 | 9.0 | 7.5 | 228 | 180 | 129 | 33 | 24 | 70 | 4.0 | 44.6 | <0.1 | 275 |
| I275353 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275354 | | 1.6 | 4.08 | 3.74 | 7.8 | 3.7 | 309 | 120 | 124 | 31 | 24 | 66 | 4.6 | 64.1 | 0.1 | 161.0 |
| I275355 | | 1.1 | 9.30 | 5.78 | 9.5 | 4.8 | 187.5 | 117 | 112 | 28 | 21 | 61 | 3.1 | 41.7 | <0.1 | 249 |
| I275356 | | 1.2 | 2.73 | 2.81 | 21.0 | 6.9 | 327 | 155 | 136 | 34 | 26 | 75 | 3.5 | 69.6 | 0.1 | 87.3 |
| I275357 | | 2.2 | 17.35 | 2.08 | 5.6 | 11.4 | 875 | 149 | 28 | 7 | 5 | 15 | 4.9 | 194.0 | <0.1 | 144.5 |
| I275358 | | 2.3 | 10.40 | 13.05 | 19.5 | 8.7 | 407 | 107 | 29 | 7 | 5 | 16 | 3.2 | 84.0 | 0.1 | 236 |
| I275359 | | 1.5 | 3.49 | 0.76 | 5.1 | 2.2 | 523 | 75 | 27 | 7 | 5 | 15 | 2.2 | 113.5 | <0.1 | 105.0 |
| I275360 | | 1.4 | 42.0 | 5.39 | 2.7 | 12.0 | 171.5 | 223 | 239 | 59 | 47 | 130 | 5.5 | 39.2 | <0.1 | 258 |
| I275361 | | 2.7 | 9.27 | 0.54 | 8.9 | 5.2 | 413 | 80 | 48 | 12 | 9 | 26 | 5.1 | 88.5 | <0.1 | 114.0 |
| I275362 | | 3.6 | 3.66 | 0.30 | 10.2 | 6.1 | 949 | 104 | 68 | 18 | 12 | 37 | 4.0 | 195.5 | <0.1 | 102.0 |
| I275363 | | 4.4 | 5.03 | 0.46 | 2.9 | 2.2 | 748 | 120 | 109 | 27 | 21 | 59 | 4.8 | 154.0 | <0.1 | 208 |
| I275364 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275365 | | 1.4 | 4.33 | 0.78 | 5.0 | 2.5 | 524 | 88 | 21 | 5 | 3 | 12 | 2.1 | 112.0 | <0.1 | 97.2 |
| I275366 | | 1.5 | 4.58 | 3.37 | 13.5 | 5.9 | 306 | 128 | 151 | 37 | 30 | 82 | 5.1 | 68.9 | 0.1 | 164.0 |
| I275367 | | 1.5 | 2.71 | 0.60 | 4.0 | 1.8 | 533 | 79 | 19 | 5 | 3 | 10 | 1.6 | 116.0 | <0.1 | 92.2 |
| I275368 | | 2.5 | 4.92 | 0.81 | 5.2 | 4.4 | 345 | 39 | 70 | 18 | 12 | 39 | 3.6 | 75.6 | <0.1 | 132.0 |
| I275369 | | 1.5 | 4.07 | 0.92 | 5.7 | 3.2 | 490 | 82 | 20 | 5 | 3 | 11 | 1.7 | 98.7 | <0.1 | 97.8 |

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**Finalized Date: 13-AUG-2012**
**Account: OSIHRG**

Project: HAMMOND REEF-EXPLORATION

# CERTIFICATE OF ANALYSIS TB12160227

| Sample Description | Method | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 | ME-MS23 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Analyte | Re | Sb | Sc | Se | Sm | Sn | Sr | Ta | Tb | Te | Th | Ti | Tl | Tm | U |
| | Units | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb | ppb |
| | LOR | 0.1 | 0.5 | 1 | 2 | 0.1 | 0.2 | 1 | 1 | 0.1 | 1 | 0.02 | 5 | 0.5 | 0.1 | 0.1 |
| I275351 | | <0.1 | <0.5 | 10 | 8 | 74.5 | <0.2 | 2490 | <1 | 11.7 | 1 | 4.15 | 11 | <0.5 | 2.8 | 7.1 |
| I275352 | | <0.1 | 1.0 | 81 | 19 | 49.0 | 1.1 | 192 | 1 | 6.5 | 2 | 98.7 | 2660 | <0.5 | 2.0 | 42.1 |
| I275353 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275354 | | <0.1 | 0.7 | 83 | 54 | 58.9 | 0.6 | 59 | <1 | 8.3 | 1 | 103.5 | 1680 | 0.7 | 2.2 | 45.1 |
| I275355 | | <0.1 | 0.7 | 82 | 28 | 37.7 | 0.8 | 499 | <1 | 5.0 | 1 | 119.0 | 1920 | <0.5 | 1.5 | 30.2 |
| I275356 | | <0.1 | 1.2 | 59 | 58 | 67.0 | 0.8 | 120 | 1 | 7.8 | 2 | 101.0 | 1690 | <0.5 | 1.6 | 61.1 |
| I275357 | | <0.1 | 0.6 | 125 | 23 | 136.0 | 1.5 | 446 | 1 | 14.2 | 1 | 149.5 | 4080 | <0.5 | 3.0 | 33.7 |
| I275358 | | <0.1 | 0.5 | 105 | 28 | 80.4 | 1.3 | 453 | 1 | 9.3 | 2 | 97.9 | 3470 | 0.5 | 2.8 | 73.7 |
| I275359 | | <0.1 | <0.5 | 58 | 8 | 89.2 | 0.4 | 131 | <1 | 9.0 | 3 | 80.1 | 469 | <0.5 | 1.9 | 23.3 |
| I275360 | | <0.1 | 0.7 | 129 | 13 | 33.0 | 2.0 | 625 | 1 | 5.2 | <1 | 99.6 | 5480 | 0.8 | 1.8 | 29.6 |
| I275361 | | <0.1 | 0.8 | 156 | 23 | 83.6 | 0.6 | 684 | 1 | 11.2 | 3 | 147.0 | 1850 | 0.6 | 3.2 | 72.1 |
| I275362 | | <0.1 | 0.7 | 163 | 69 | 184.5 | 1.1 | 126 | <1 | 19.6 | 4 | 107.0 | 2280 | 0.6 | 4.5 | 64.3 |
| I275363 | | <0.1 | 0.6 | 120 | 65 | 126.0 | 0.3 | 98 | <1 | 16.9 | 2 | 103.0 | 933 | 1.0 | 5.5 | 54.6 |
| I275364 | | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS | NSS |
| I275365 | | <0.1 | <0.5 | 55 | 14 | 87.9 | 1.6 | 116 | <1 | 8.9 | 4 | 76.1 | 730 | <0.5 | 1.7 | 21.4 |
| I275366 | | <0.1 | 0.7 | 96 | 53 | 60.2 | 1.1 | 55 | <1 | 7.7 | 9 | 121.0 | 2390 | 0.7 | 1.8 | 48.0 |
| I275367 | | <0.1 | <0.5 | 51 | 11 | 91.7 | 0.6 | 103 | <1 | 9.7 | 10 | 70.5 | 396 | <0.5 | 1.9 | 21.4 |
| I275368 | | <0.1 | <0.5 | 124 | 21 | 79.8 | 0.6 | 1280 | <1 | 11.6 | 14 | 131.0 | 1230 | <0.5 | 3.1 | 69.8 |
| I275369 | | <0.1 | <0.5 | 59 | 6 | 86.4 | 0.7 | 155 | <1 | 8.6 | 11 | 68.4 | 649 | <0.5 | 1.8 | 21.7 |

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# CERTIFICATE OF ANALYSIS TB12160227

| Sample Description | Method<br>Analyte<br>Units<br>LOR | ME-MS23<br>W<br>ppb<br>1 | ME-MS23<br>Y<br>ppb<br>0.1 | ME-MS23<br>Yb<br>ppb<br>0.1 | ME-MS23<br>Zn<br>ppb<br>10 | ME-MS23<br>Zr<br>ppb<br>0.1 | pH-MS23<br>Final pH<br>Unity<br>0.1 |
|---|---|---|---|---|---|---|---|
| I275351 | | <1 | 274 | 15.4 | 10 | 3.0 | 8.5 |
| I275352 | | 1 | 181.5 | 11.6 | 1030 | 75.3 | 7.4 |
| I275353 | | NSS | NSS | NSS | NSS | NSS | NSS |
| I275354 | | 1 | 213 | 12.3 | 180 | 94.5 | 6.8 |
| I275355 | | 1 | 128.5 | 8.1 | 350 | 66.0 | 8.1 |
| I275356 | | 1 | 145.5 | 9.3 | 800 | 75.9 | 8.1 |
| I275357 | | 1 | 319 | 16.9 | 140 | 78.5 | 8.5 |
| I275358 | | 2 | 218 | 16.9 | 360 | 68.4 | 8.5 |
| I275359 | | 2 | 227 | 10.8 | 100 | 31.5 | 9.0 |
| I275360 | | 1 | 178.5 | 10.0 | 700 | 85.2 | 6.8 |
| I275361 | | 1 | 282 | 18.5 | 130 | 104.5 | 8.3 |
| I275362 | | 1 | 452 | 26.5 | 360 | 65.9 | 8.3 |
| I275363 | | <1 | 666 | 31.1 | 180 | 70.4 | 6.8 |
| I275364 | | NSS | NSS | NSS | NSS | NSS | NSS |
| I275365 | | 2 | 192.5 | 10.4 | 100 | 27.9 | 9.0 |
| I275366 | | 1 | 206 | 10.5 | 200 | 120.0 | 7.1 |
| I275367 | | 2 | 209 | 10.9 | 790 | 23.5 | 9.0 |
| I275368 | | 1 | 272 | 17.8 | 110 | 62.0 | 9.0 |
| I275369 | | 1 | 200 | 10.7 | 120 | 29.7 | 9.0 |

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**Account: OSIHRG**

# CERTIFICATE OF ANALYSIS TB12160227

| Method | CERTIFICATE COMMENTS |
|---|---|
| ALL METHODS | NSS is non-sufficient sample. |