# PRESS RELEASE

**CZN-TSX** **EMBARGOED**
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## Substantial Grades and Thicknesses Intersected in Drilling at Prairie Creek

**Vancouver – November 5, 2004** Canadian Zinc Corporation is very pleased to report further assays resulting from the diamond drill program completed during the 2004 exploration program at its 100% owned Prairie Creek property in the Northwest Territories. The 2004 diamond drill exploration program consisted of a total of 5963 meters of core drilling in 27 holes. Assay results for the first 15 holes, drilled to the end of July, were previously reported in a press release dated September 30, 2004. The company now reports assays for the final 12 drill holes.

**Northern Deep Vein Exploration**

Three deep holes were drilled targeted at vein mineralization, outside the area of underground delineation outlined in the 2001 Scoping Study. Exceptional grades and thicknesses of vein mineralization were intersected in all three holes.

- Hole 159 intersected grades of 22% combined lead and zinc, with 5 ounces per ton silver over 29.5 meters of core, including an exceptionally high grade of 11.8 meters of 50% combined lead and zinc, with 11 ounces of silver per ton.

- Hole 152 intersected grades of over 54% of combined lead and zinc, with 14 ounces per ton silver, in 3.1 meters of core.

- Hole 156 intersected grades of 11% combined lead and zinc over 23.3 meters, including one meter which ran 43% combined lead and zinc with 8 ounces of silver per ton.

This northern area comprises part of the previously calculated mineral resource, however, the drill definition within this area is sparse and based on widely spaces holes. Holes 156 and 159 were both drilled on the same 50900N section line testing for a downward extension of a series of small high grade veins exposed near the end of the existing 930 m level underground workings. Hole 156 intersected an identical vein-type system 100 meters below the workings and hole159 further undercut hole 156 and intersected an exceptionally high grade massive vein a further 170 meters vertically below.

*"The Company is very encouraged by the apparent strength and grade of the vein in the northern down dip extension" said Alan Taylor, Vice-President of Exploration. "The 50900N Section indicates great potential to host a substantial high grade tonnage over more than 350 meters of vertical extent."*

Selected intercepts are listed in the following table and an individual internal assay table for Holes 152, 156 & 159 is appended to this press release:

| | Drill Hole | From (m) | To (m) | Interval (m) | Lead % | Zinc % | Silver gm/mt | Copper % |
|---|---|---|---|---|---|---|---|---|
| **Average** | **PC-04-152** | **348.6** | **349.6** | **1.0** | **1.03** | **5.66** | **36** | **0.084** |
| | | | | | | | | |
| **Weighted Average** | **PC-04-152** | **471.7** | **474.8** | **3.1** | **24.10** | **30.67** | **483** | **1.142** |
| | | | | | | | | |
| **Bulk Weighted Average "A"** | **PC-04-156** | **326.4** | **349.7** | **23.3** | **4.01** | **6.92** | **87** | **0.204** |
| Included as part of "A" | PC-04-156 | 326.4 | 328.1 | 1.7 | 8.67 | 18.74 | 247 | 0.676 |
| Included as part of "A" | PC-04-156 | 336.5 | 340.5 | 4.0 | 6.76 | 12.30 | 100 | 0.145 |
| Included as part of "A" | PC-04-156 | 347.1 | 348.1 | 1.0 | 28.90 | 14.74 | 275 | 0.116 |
| | | | | | | | | |
| **Bulk Weighted Average "B"** | **PC-04-159** | **463.1** | **492.6** | **29.5** | **12.99** | **9.48** | **163** | **0.242** |
| Included as part of "B" | PC-04-159 | 463.1 | 467.6 | 4.5 | 6.79 | 4.17 | 67 | 0.109 |
| Included as part of "B" | PC-04-159 | 479.2 | 491.0 | 11.8 | 29.71 | 21.63 | 376 | 0.547 |

**Stratabound Exploration Drilling**

Six holes were drilled, targeted at Stratabound mineralization.

Hole 150 was drilled as an infill hole within the previously defined Stratabound resource and cored an impressive 26.4 meter intersection grading 2.6% lead and 10.06% zinc. Hole 154 returned moderate values of zinc over 4.2 meters.

Holes 151, 153, 155 and 161 tested the periphery of the Stratabound resource and only returned anomalous pyrite enriched zones but with encouraging indications of semi-massive sulphides.

Further exploration of the Stratabound mineralization, which lies at a depth between 300 and 500 meters, will be continued with underground drilling in 2005.

| | Drill Hole | From (m) | To (m) | Interval (m) | Lead % | Zinc % | Silver gm/mt | Copper % |
|---|---|---|---|---|---|---|---|---|
| **Bulk Weighted Average "C"** | **PC-04-150** | **235.1** | **261.5** | **26.4** | **2.72** | **10.06** | **29** | **0.014** |
| Included as part of "C" | PC-04-150 | 238.0 | 249.1 | 11.1 | 4.81 | 17.41 | 53 | 0.020 |
| Included as part of "C" | PC-04-150 | 251.8 | 253.2 | 1.4 | 6.89 | 18.43 | 50 | 0.057 |
| Included as part of "C" | PC-04-150 | 259.2 | 261.5 | 2.3 | 1.06 | 11.01 | 13 | 0.005 |
| | | | | | | | | |
| **Weighted Average** | **PC-04-154** | **185.6** | **189.8** | **4.2** | **0.97** | **4.54** | **20** | **0.016** |

A comprehensive list of all internal assays for Hole 150 is shown in the Appendix of this release.

**Mine Site Area**

Three shallow holes 157, 158 and 160 drilled in the general mine site area but outside the known resource, tested the trend of a pyrite rich zone discovered earlier in the 2004 exploration program. These three holes intersected significant zones of pyrite mineralization, with minor amounts of lead and zinc. The presence of these massive to semi massive pyrite zones is considered significant.

All drill core has been logged and sampled under the direct supervision of Alan Taylor P. Geo, who is a qualified person within the meaning of National Instrument 43-101. All analysis were completed at Acme Analytical Laboratories in Vancouver by certified assayers using an initial 30 element ICP analysis on pulverized samples followed by, if warranted, by an AR assay finish, with standards and duplicates routinely analyzed by the laboratory.

*"The company is very encouraged by the results of the 2004 summer exploration program at Prairie Creek" said Mr. Taylor. "The drill data will now be incorporated into an updated geological model in order to provide better interpretation as to the geological implications and to plan further exploration and development scheduled for 2005".*

## About Canadian Zinc

Canadian Zinc's 100% owned Prairie Creek Mine Project located in the Northwest Territories includes a near complete mine, mill and surrounding infrastructure with a large mineral resource base totaling 11.8 million tonnes, grading an average12.5% zinc, 10.1% lead, 0.4% copper and 161 grammes of silver per tonne. The resource contains an estimated 70 million ounces of silver, approximately 3 billion pounds of zinc and approximately 2.2 billions pounds of lead.

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This news release may contain forward looking statements based on assumptions and judgments of management regarding future events or results that may prove to be inaccurate as a result of exploration or other risk factors beyond its control. Actual results may differ materially from the expected results.

A more extensive description of the Company's activities is available on the Company's web site at www.canadianzinc.com


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**APPENDIX TO CANADIAN ZINC PRESS RELEASE November 5, 2004:**

**List of Individual Drill Hole Assay Samples for PC-04-150, 152, 156, 159.**

| Sample # | Drill Hole | From (m) | To (m) | Interval (m) | Lead % | Zinc % | Silver gm/mt | Copper % |
|---|---|---|---|---|---|---|---|---|
| 126001 | PC-04-150 | 235.1 | 236.7 | 1.6 | 0.50 | 1.02 | 5 | 0.001 |
| 126002 | PC-04-150 | 236.7 | 238.0 | 1.3 | 3.15 | 8.77 | 41 | 0.023 |
| 126003 | PC-04-150 | 238.0 | 239.6 | 1.6 | 6.73 | 20.79 | 81 | 0.045 |
| 126004 | PC-04-150 | 239.6 | 241.1 | 1.5 | 7.73 | 17.91 | 61 | 0.02 |
| 126005 | PC-04-150 | 241.1 | 242.6 | 1.5 | 2.90 | 15.69 | 32 | 0.008 |
| 126006 | PC-04-150 | 242.6 | 244.1 | 1.5 | 4.68 | 19.54 | 46 | 0.011 |
| 126007 | PC-04-150 | 244.1 | 245.7 | 1.6 | 7.45 | 23.45 | 74 | 0.037 |
| 126008 | PC-04-150 | 245.7 | 247.7 | 2.0 | 2.92 | 13.52 | 45 | 0.009 |
| 126009 | PC-04-150 | 247.7 | 249.1 | 1.4 | 1.35 | 11.24 | 27 | 0.009 |
| 126010 | PC-04-150 | 249.1 | 250.9 | 1.8 | 0.59 | 2.02 | 5 | 0.003 |
| 126011 | PC-04-150 | 250.9 | 251.8 | 0.9 | 0.06 | 1.40 | 6 | 0.008 |
| 126012 | PC-04-150 | 251.8 | 253.2 | 1.4 | 6.89 | 18.43 | 50 | 0.057 |
| 126013 | PC-04-150 | 253.2 | 254.8 | 1.6 | 0.09 | 0.65 | 0 | 0.002 |
| 126014 | PC-04-150 | 254.8 | 257.9 | 3.1 | 0.03 | 0.55 | 0 | 0.001 |
| 126015 | PC-04-150 | 257.9 | 259.2 | 1.3 | 0.01 | 0.32 | 0 | 0.000 |
| 126016 | PC-04-150 | 259.2 | 261.5 | 2.3 | 1.06 | 11.01 | 13 | 0.005 |

| Sample # | Drill Hole | From (m) | To (m) | Interval (m) | Lead % | Zinc % | Silver gm/mt | Copper % |
|---|---|---|---|---|---|---|---|---|
| 126032 | PC-04-152 | 471.7 | 473.7 | 2.0 | 25.2 | 35.74 | 530 | 1.248 |
| 126033 | PC-04-152 | 473.7 | 474.8 | 1.1 | 22.1 | 21.44 | 398 | 0.948 |

| Sample # | Drill Hole | From (m) | To (m) | Interval (m) | Lead % | Zinc % | Silver gm/mt | Copper % |
|---|---|---|---|---|---|---|---|---|
| 126045 | PC-04-156 | 326.4 | 328.1 | 1.7 | 8.67 | 18.74 | 247 | 0.676 |
| 126046 | PC-04-156 | 328.1 | 329.6 | 1.5 | 0.68 | 0.45 | 0 | 0.004 |
| 126047 | PC-04-156 | 329.6 | 330.7 | 1.1 | 1.16 | 3.88 | 13 | 0.016 |
| 126048 | PC-04-156 | 330.7 | 332.8 | 2.1 | 2.92 | 2.38 | 23 | 0.024 |
| 126049 | PC-04-156 | 332.8 | 334.0 | 1.2 | 0.11 | 0.44 | 2 | 0.004 |
| 126050 | PC-04-156 | 334.0 | 335.0 | 1.0 | 1.13 | 4.15 | 599 | 2.312 |
| 126051 | PC-04-156 | 335.0 | 336.5 | 1.5 | 0.56 | 1.87 | 7 | 0.008 |
| 126052 | PC-04-156 | 336.5 | 337.4 | 0.9 | 3.71 | 10.82 | 37 | 0.028 |
| 126053 | PC-04-156 | 337.4 | 338.9 | 1.5 | 10.48 | 17.08 | 136 | 0.144 |
| 126054 | PC-04-156 | 338.9 | 340.0 | 1.1 | 0.09 | 0.28 | 1 | 0.005 |
| 126055 | PC-04-156 | 340.0 | 340.5 | 0.5 | 15.76 | 27.03 | 320 | 0.664 |
| 126056 | PC-04-156 | 340.5 | 341.4 | 0.9 | 3.03 | 6.56 | 40 | 0.040 |
| 126057 | PC-04-156 | 341.4 | 342.9 | 1.5 | 0.99 | 0.31 | 9.3 | 0.004 |
| 126058 | PC-04-156 | 342.9 | 344.4 | 1.5 | 0.33 | 1.06 | 2 | 0.001 |
| 126059 | PC-04-156 | 344.4 | 346.1 | 1.7 | 2.92 | 19.57 | 59 | 0.100 |
| 126060 | PC-04-156 | 346.1 | 347.1 | 1.0 | 0.10 | 0.20 | 1.5 | 0.004 |
| 126061 | PC-04-156 | 347.1 | 348.1 | 1.0 | 28.9 | 14.74 | 275 | 0.116 |
| 126062 | PC-04-156 | 348.1 | 349.0 | 0.9 | 2.08 | 5.58 | 70 | 0.232 |
| 126063 | PC-04-156 | 349.0 | 349.7 | 0.7 | 0.43 | 1.39 | 15 | 0.044 |

| Sample # | Drill Hole | From (m) | To (m) | Interval (m) | Lead % | Zinc % | Silver gm/mt | Copper % |
|---|---|---|---|---|---|---|---|---|
| 126072 | PC-04-159 | 463.1 | 466.0 | 2.9 | 2.19 | 3.20 | 33 | 0.069 |
| 126073 | PC-04-159 | 466.0 | 467.6 | 1.6 | 15.13 | 5.94 | 129 | 0.181 |
| 126074 | PC-04-159 | 467.6 | 469.4 | 1.8 | 0.15 | 0.43 | 7 | 0.017 |
| 126075 | PC-04-159 | 469.4 | 471.8 | 2.4 | 0.06 | 1.24 | 2 | 0.004 |
| 126076 | PC-04-159 | 471.8 | 473.4 | 1.6 | 0.27 | 0.04 | 3 | 0.005 |
| 126077 | PC-04-159 | 473.4 | 475.2 | 1.8 | 0.09 | 0.07 | 2 | 0.004 |
| 126078 | PC-04-159 | 475.2 | 476.4 | 1.2 | 0.13 | 0.05 | 2 | 0.002 |
| 126079 | PC-04-159 | 476.4 | 477.9 | 1.5 | 0.28 | 1.00 | 16 | 0.051 |
| 126080 | PC-04-159 | 477.9 | 479.2 | 1.3 | 0.03 | 0.02 | 4 | 0.020 |
| 126081 | PC-04-159 | 479.2 | 481.5 | 2.3 | 46.31 | 17.74 | 490 | 0.681 |
| 126082 | PC-04-159 | 481.5 | 482.9 | 1.4 | 9.09 | 52.76 | 127 | 0.109 |
| 126083 | PC-04-159 | 482.9 | 484.0 | 1.1 | 49.80 | 2.90 | 426 | 0.142 |
| 126084 | PC-04-159 | 484.0 | 485.2 | 1.2 | 20.03 | 4.06 | 214 | 0.253 |
| 126085 | PC-04-159 | 485.2 | 485.9 | 0.7 | 21.92 | 8.52 | 315 | 0.579 |
| 126086 | PC-04-159 | 485.9 | 487.1 | 1.2 | 32.67 | 30.85 | 342 | 0.182 |
| 126087 | PC-04-159 | 487.1 | 488.9 | 1.8 | 21.47 | 19.78 | 244 | 0.276 |
| 126088 | PC-04-159 | 488.9 | 491.0 | 2.1 | 28.27 | 25.69 | 639 | 0.504 |
| 126089 | PC-04-159 | 491.0 | 492.6 | 1.6 | 0.37 | 0.12 | 7.2 | 0.013 |