## Solitario Intersects 9.3 Meters Grading 26.5% Zinc Equivalent at Florida Canyon, Peru

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DENVER, October 28, 2019 - <u>Solitario Zinc Corp.</u> ("Solitario") (NYSE American:XPL)(TSX:SLR) is pleased to provide an update on the continuing 2019 drilling program on its Florida Canyon zinc project in Peru. The highlight of this round of drilling was drill hole PEBGD000032 that intersected three stacked, nearly horizontal, high-grade zinc mantos, extending them by approximately 200 meters eastward from the San Jorge mineralized replacement body:

- 9.3 meters grading 26.5% zinc-equivalent ("ZnEq"),
- 3.1 meters grading 19.7% ZnEq
- 2.7 meters grading 16.0% ZnEq

The Florida Canyon zinc project, located in northern Peru, is joint ventured with, and operated by, the world's fourth largest zinc miner, Nexa Resources S.A. (NYSE: NEXA; TSX: NEXA) ("Nexa").

Three of the major objectives for the 2019 drilling program are to: 1) extend the San Jorge near-vertical replacement bodies in the southern part of the project area; 2) determine if the mineralization intersected in the previously drilled hole V-21 in the northern part of Florida Canyon represents a newly discovered, near-vertical replacement body (now referred to as the 1021 Zone) similar to the San Jorge Zone; and 3) extend horizontal mantos, particularly those situated near the vertical replacement bodies. With the drilling results presented in this and previous releases, all three objectives are being successfully achieved.

The results from drill holes PEBGD000024, 25, 28 and 31 are very important in demonstrating the potential size and lateral continuity of the emerging 1021 Zone over an 800-meter strike length. This compares favorably with the San Jorge zone to the south which has expanded to approximately one kilometer in strike length with this year's drilling. A long section of the 1021 Zone can be seen here.

Results reported within this news release (see table below) are for drill holes PEBGD000021to 33. Seven of these 10 holes intersected significant mineralization, all of which should contribute to expanding the Florida Canyon resource base. Assay results for the final six drill holes of the 2019 program will be reported before the end of the year. Please see prior news releases for previously reported drilling results from the 2019 drilling program at Florida Canyon.

## Highlights of Florida Canyon Drilling Results

Drill Hole	From	To	Interval	Zinc	Lead	Silver	Zinc-Eq*
Number	(m)	(m)	(m)	(%)	(%)	(g/t)	(%)
PEBGD000024	249.9	254.0	4.1	18.6	0.9	5.7	19.5
	283.8	284.5	0.7	32.8	6.2	37.1	39.3
	350.3	352.3	2.0	22.5	0.7	37.1	24.0
	357.9	360.2	2.3	13.6	0.1	32.3	14.4
PEBGD000025	262.0	263.0	1.0	8.5	0.1	2.2	8.6
	290.2						

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	353.9	362.7	8.8	5.2	1.5	18.1	6.9
including	358.5	362.7	4.2	8.6	1.4	26.9	10.5
PEBGD000028	268.2	271.3	3.1	8.5	0.3	3.9	8.8
	289.2	290.5	1.3	3.2	0.8	8.7	4.1
	349.7	351.9	2.2	3.0	0.2	3.8	3.1
PEBGD000030 444.2		450.9	6.7	18.4	0.0	10.6	18.7
including	448.4	450.9	2.5	32.3	0.0	12.6	32.6
	456.7	460.6	3.9	23.2	0.0	17.1	23.6
	466.8	467.9	1.1	8.5	0.0	6.0	8.6
PEBGD000031	297.0	304.4	7.4	11.3	1.7	14.5	13.1
including	300.8	303.9	3.1	21.1	1.5	21.1	22.9
	317.2	319.5	2.3	5.2	1.2	12.2	6.5
PEBGD000032	218.3	218.9	0.6	27.2	0.1	2.4	27.3
	227.0	229.7	2.7	12.5	3.1	32.5	16.0
	284.1	293.4	9.3	23.5	2.8	18.1	26.5
	323.8	326.9	3.1	15.9	3.6	23.5	19.7
PEBGD000033	273.2	283.1	9.9	5.9	1.6	12.9	7.7

<sup>\*</sup>Zn-Eq was calculated using the following price assumptions: Zn=\$1.10/lb., Pb=\$0.91lb., Ag=\$16.50/oz. Reported intervals are estimated to be at least 80% of the true thickness Numbers in this table may not add exactly as numbers have been rounded to the nearest decimal

Chris Herald, President and Chief Executive Officer of Solitario, commented, "These are stellar results that advance the Florida Canyon Project on several fronts. Firstly, the 1021 Zone appears to have the potential to rival the San Jorge zone in terms of scale, including both size and grade. Secondly, we were able to extend the San Jorge zone to the south. Finally, several high-grade mantos bodies were expanded laterally to the east from the San Jorge structural corridor. These assay results continue the string of previously reported positive results from the 2019 Florida Canyon drilling program and solidify our belief that the Florida Canyon deposit has the potential to substantially grow, particularly to the south and the 1021 Zone. We remain encouraged that most of the 2019 drill holes have intersected high-quality mineralization. We look forward to completing this year's drill program on the heels of improving zinc prices."

Drill hole information contained within this release is reported under Nexa's quality control program reviewed by Mr. Walt Hunt, COO for <u>Solitario Zinc Corp.</u>, who is a qualified person as defined by National Instrument 43-101. Samples are derived from 50% splits of HQ and NQ (2.5 and 1.9 inch) diameter core. Samples are shipped via secured third-party land transportation companies and analyzed by ALS Chemex Inc., in Lima, Peru.

Terms of the Florida Canyon Joint Venture

Solitario owns a 39% interest and Nexa owns a 61% indirect interest in the Florida Canyon project. Nexa can earn a 70% interest in the Florida Canyon project by continuing to fund all project expenditures and

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committing to place the project into production based upon a positive feasibility study. After earning 70%, and at the request of Solitario, Nexa has further agreed to finance Solitario's 30% participating interest for construction through a project loan. Solitario will repay the loan facility through 50% of its net cash flow distributions from production.

## **About Solitario**

Solitario is an emerging zinc exploration and development company traded on the NYSE American ("XPL") and on the Toronto Stock Exchange ("SLR"). Solitario holds 50% joint venture interest in the high-grade, open-pittable Lik zinc deposit in Alaska and a 39% joint venture interest (Nexa Resources holds the remaining 61% interest) on the high-grade Florida Canyon zinc project in Peru. Solitario also holds a 9.9% equity interest in Vendetta Mining. Solitario's Management and Directors hold approximately 9.3% (excluding options) of the Company's 58.1 million shares outstanding. Solitario's cash balance and marketable securities stand at approximately US\$8.8 million. Additional information about Solitario is available online at www.solitariozinc.com

## FOR MORE INFORMATION ABOUT SOLITARIO, CONTACT:

Valerie Kimball Christopher E. Herald

Director - Investor Relations President & CEO

(720) 933-1150 (303) 534-1030, Ext. 14

(800) 229-6827

Cautionary Statement Regarding Forward Looking Information

This press release contains forward-looking statements within the meaning of the U.S. Securities Act of 1933 and the U.S. Securities Exchange Act of 1934, and as defined in the United States Private Securities Litigation Reform Act of 1995 (and the equivalent under Canadian securities laws), that are intended to be covered by the safe harbor created by such sections. Forward-looking statements are statements that are not historical fact. They are based on the beliefs, estimates and opinions of the Company's management on the date the statements are made and address activities, events or developments that Solitario expects or anticipates will or may occur in the future, and are based on current expectations and assumptions. Forward-looking statements involve a number of risks and uncertainties. Consequently, there can be no assurances that such statements will prove to be accurate and actual results and future events could differ materially from those anticipated in such statements. Such forward-looking statements include, without limitation, statements regarding the Company's expectation of the projected timing and outcome of engineering studies; expectations regarding the receipt of all necessary permits and approvals to implement a mining plan, if any, at Lik or Florida Canyon; the potential for confirming, upgrading and expanding zinc, lead and silver mineralized material; future operating and capital cost estimates may indicate that the stated resources may not be economic; estimates of zinc, lead and silver grades of resources provided are predicted and actual mining grade could be substantially lower; estimates of recovery rates for could be lower than estimated for establishing the cutoff grade; and other statements that are not historical facts could vary significantly from assumptions made in the PEA. Although Solitario management believes that its expectations are based on reasonable assumptions, it can give no assurance that these expectations will prove correct. Important factors that could cause actual results to differ materially from those in the forward-looking statements include, among others, risks relating to risks that Solitario's and its joint venture partners' exploration and property advancement efforts will not be successful; risks relating to fluctuations in the price of zinc, lead and silver; the inherently hazardous nature of mining-related activities; uncertainties concerning reserve and resource estimates; availability of outside contractors, and other activities; uncertainties relating to obtaining approvals and permits from governmental regulatory authorities; the possibility that environmental laws and regulations will change over time and become even more restrictive; and availability and timing of capital for financing the Company's exploration and development activities, including uncertainty of being able to raise capital on favorable terms or at all; as well as those factors discussed in Solitario's filings with the U.S. Securities and Exchange Commission (the "SEC") including Solitario's latest Annual Report on Form 10-K and its other SEC filings (and Canadian filings) including, without limitation, its latest Quarterly Report on Form 10-Q. The Company does not intend to publicly update

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any forward-looking statements, whether as a result of new information, future events, or otherwise, except as may be required under applicable securities laws.

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