

Bramaderos Project, Ecuador

Espiritu drilling returns bonanza silver grades

Results include 1.1m at 1069g/t silver, 0.2g/t gold, 5.5% zinc and 1.3% lead in one of multiple lodes

Key Points

- Drilling at the Espiritu gold-silver target at Bramaderos has intersected high grade silver with gold, zinc and lead within a polymetallic epithermal system
- Drill hole ESDD005 has intersected three significant lodes of silver-gold-zinc-lead mineralisation including:
 - 145.8m to 148.2m; 2.4m at 104g/t silver, 0.7g/t gold, 3.4% zinc, 1.6% lead
 - 225.5m to 226.6m; 1.1m at 1069g/t silver, 0.2g/t gold, 5.5% zinc, 1.3% lead
 - 259.1m to 270.7m; 11.6m at 167g/t silver, 0.2g/t gold, 2.1% zinc, 0.8% lead,
- The results so far suggest the grade of the mineralisation is increasing as drilling proceeds to the south; ESDD005 is the southern-most hole drilled to date
- This early success supports Sunstone's view of the strong prospectivity of several other targets which have many geological similarities to Espiritu
- Drilling at Espiritu is ongoing with further results expected during December

Sunstone Metals Ltd (ASX: STM) is pleased to advise that it has discovered a significant polymetallic silver-gold-zinc-lead 'intermediate sulphidation' epithermal system at the Espiritu target within its Bramaderos project in southern Ecuador.

Assay results from the first five diamond drill holes at Espiritu contain bonanza silver grades within multiple silver-gold-zinc-lead vein and breccia intervals (Tables 1-2, Figures 3-5).

The drill holes have tested the area below high-grade silver-gold-lead-zinc results recorded in trench and rock chip samples (see ASX announcements 13 July 202 and 10 September 2020).

Drilling to date has only tested to a depth of 145m below surface and across a strike length of 180m, suggesting that there is significant scope for a larger system based on surface anomalies defined to date. The early drilling results suggest the main mineralised systems may plunge. The structural geology is not well understood and will evolve with further drilling. Additional geophysics will be undertaken over the target area to help guide future drilling.

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Sunstone Managing Director Malcolm Norris said: “These assay results are extremely encouraging. They demonstrate that potentially economic precious metal and base metal grades, including some bonanza silver grades occur within the Espiritu system across multiple lodes.

“There is clearly immense potential at Espiritu, which has not seen any historical exploration, and in light of these results, we will accelerate our exploration program. This is the first discovery of a silver-gold-zinc-lead system in the Bramaderos district and as such justifies some optimism that this may develop into a large system with further exploration.

“Globally, silver-polymetallic systems similar to Espiritu can be very significant development opportunities. Many examples occur in Central and South America where mines typically produce concentrates of lead-zinc-silver and gold.

“Other priority targets have been identified within the Bramaderos concession and these are being advanced during the current program. New areas of outcropping carbonate and barite alteration, typical of epithermal systems, with evidence of copper-lead-zinc mineralisation have been identified and will be scheduled for further exploration and drilling.”

Drilling of the Brama porphyry gold-copper system is scheduled to commence prior to the end of 2020, and an update on activities at the El Palmar porphyry copper-gold project will also be provided prior to the end of 2020.

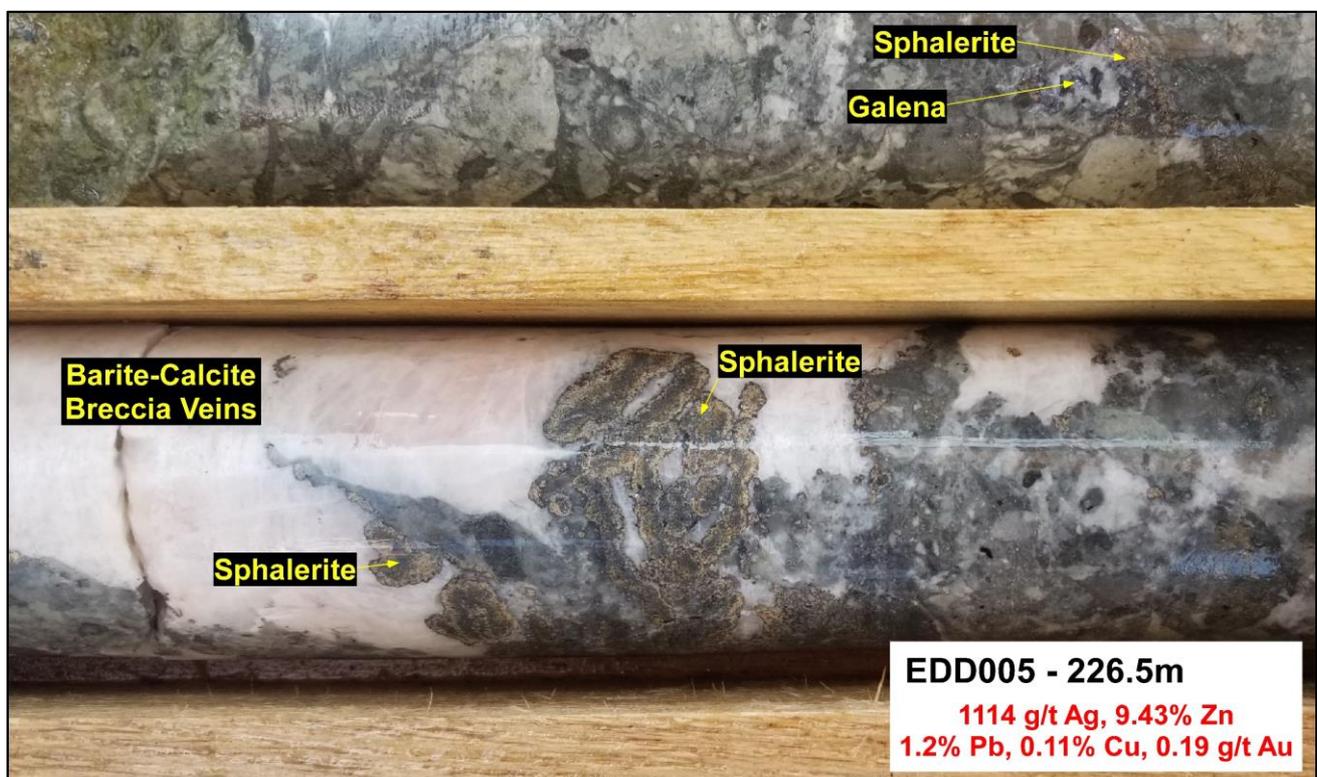


Figure 1: Close-up photo of drill core from the highest grade interval in ESDD005, 226m to 226.6m; 0.6m at 1,114g/t silver, 0.19g/t gold, 9.43% zinc, and 1.2% lead.

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Figure 2: Drill core photograph from ESDD005 showing wide intervals of veined and brecciated rock containing very significant assays of silver, zinc, lead and gold. The interval shown is 259.1m to 270.7m, 11.6m at 167.4g/t silver, 0.16g/t gold, 0.8% lead and 2.1% zinc, with locally very high grade silver up to 404g/t.

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Table 1: Details of assay results from drilling to date

Drill Hole	From (m)	To (m)	Interval (m)	Gold (g/t)	Silver (g/t)	Lead (%)	Zinc (%)
ESDD001	95.3	99.3	4.0	0.29	14.9		
	98.3	99.3 (eoh)	1.0	0.71	33.1		
ESDD002	29.0	36.6	7.6	0.21	9.1		1.1
<i>includes</i>	31.0	35.6	4.6	0.28	11.3	0.1	1.7
<i>includes</i>	33.9	34.5	0.6	0.58	19.0	0.6	2.4
ESDD003	83.8	92.0	8.2	0.21	13.1		0.1
	106.0	118.0	12.0	0.17	12.9		0.2
	129.8	164.6	34.8	0.22	18.5		
<i>includes</i>	134.2	134.5	0.3	0.35	605.0	0.3	
<i>and</i>	148.8	149.1	0.3	1.11	85.3	0.1	
ESDD004	4.3	12.8	8.5	0.16	5.6		0.1
	214.6	216.6	2.0		5.5	0.2	0.2
ESDD005	86.0	99.1	13.1	0.14	15.1		0.2
	145.8	151.1	5.3	0.40	56.3	0.8	1.9
<i>includes</i>	145.8	148.2	2.4	0.67	103.7	1.6	4.0
	155.5	155.9	0.4	0.10	77.5	0.2	0.6
	172.6	172.9	0.3	0.10	11.2	0.3	1.6
	179.9	180.2	0.3	0.10	223.0	1.9	2.8
	193.2	193.6	0.4	0.26	174.0	1.0	2.1
	197.4	197.8	0.4	0.27	25.7	0.3	1.3
	199.3	201.7	2.4		10.7		0.1
	204.4	206.3	1.9		17.5	0.2	0.2
	210.9	213.5	2.6	0.14	23.1	0.3	0.2
	220.5	222.0	1.5		57.3	0.2	0.4
	225.5	228.2	2.7	0.10	479.5	0.6	2.5
<i>includes</i>	225.5	226.6	1.1	0.18	1,068.6	1.3	5.5
	234.5	237.0	2.5	0.16	13.4	0.1	0.3
	248.8	249.6	0.8		59.9	0.5	1.4
	259.1	270.7	11.6	0.16	167.4	0.8	2.1
<i>Includes</i>	263.1	266.2	3.1	0.40	150.1	1.6	4.5

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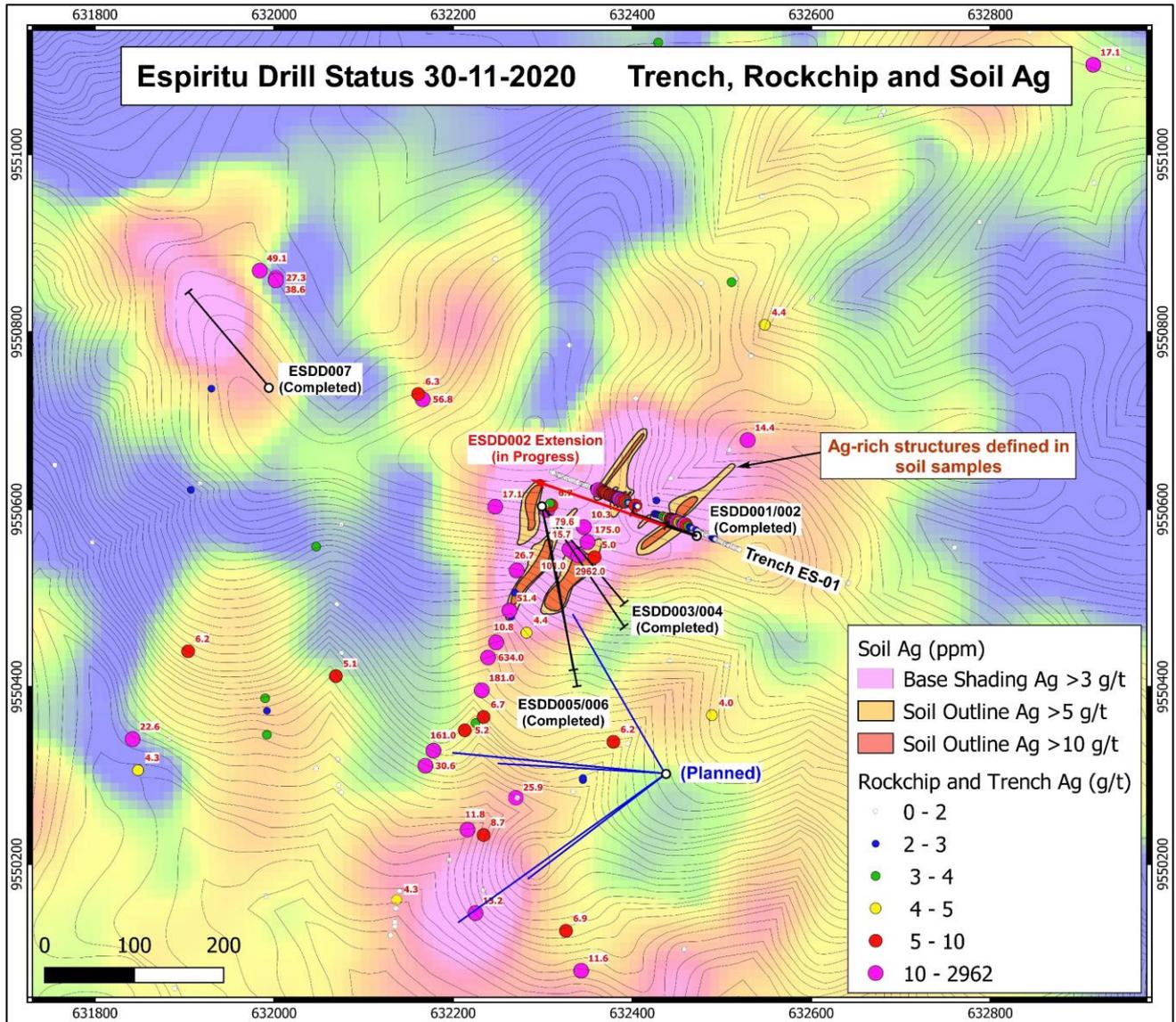


Figure 3: Espiritu target area showing current and planned drill hole locations, silver in rock chip samples and silver-in-soil as the backdrop image.

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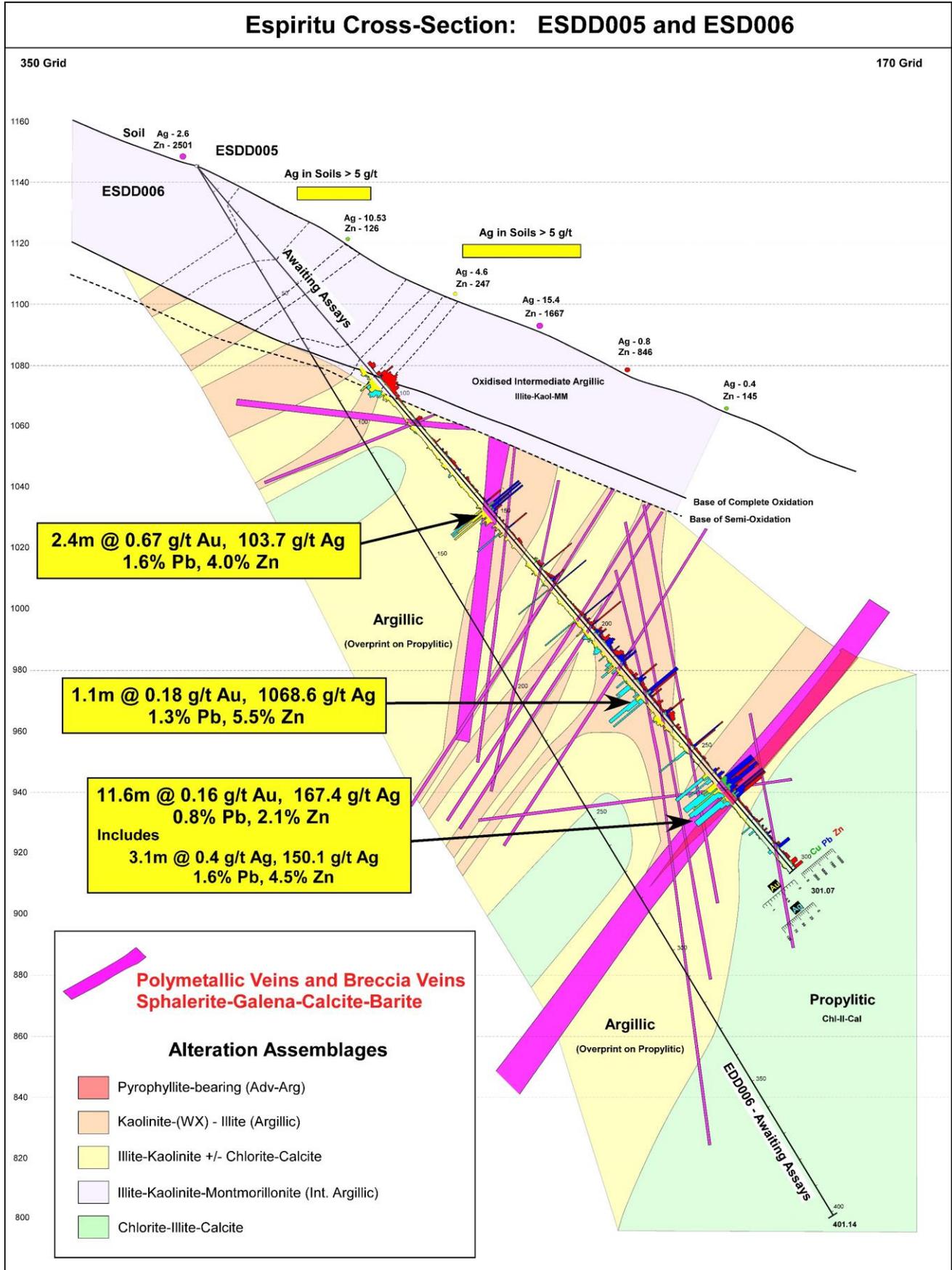
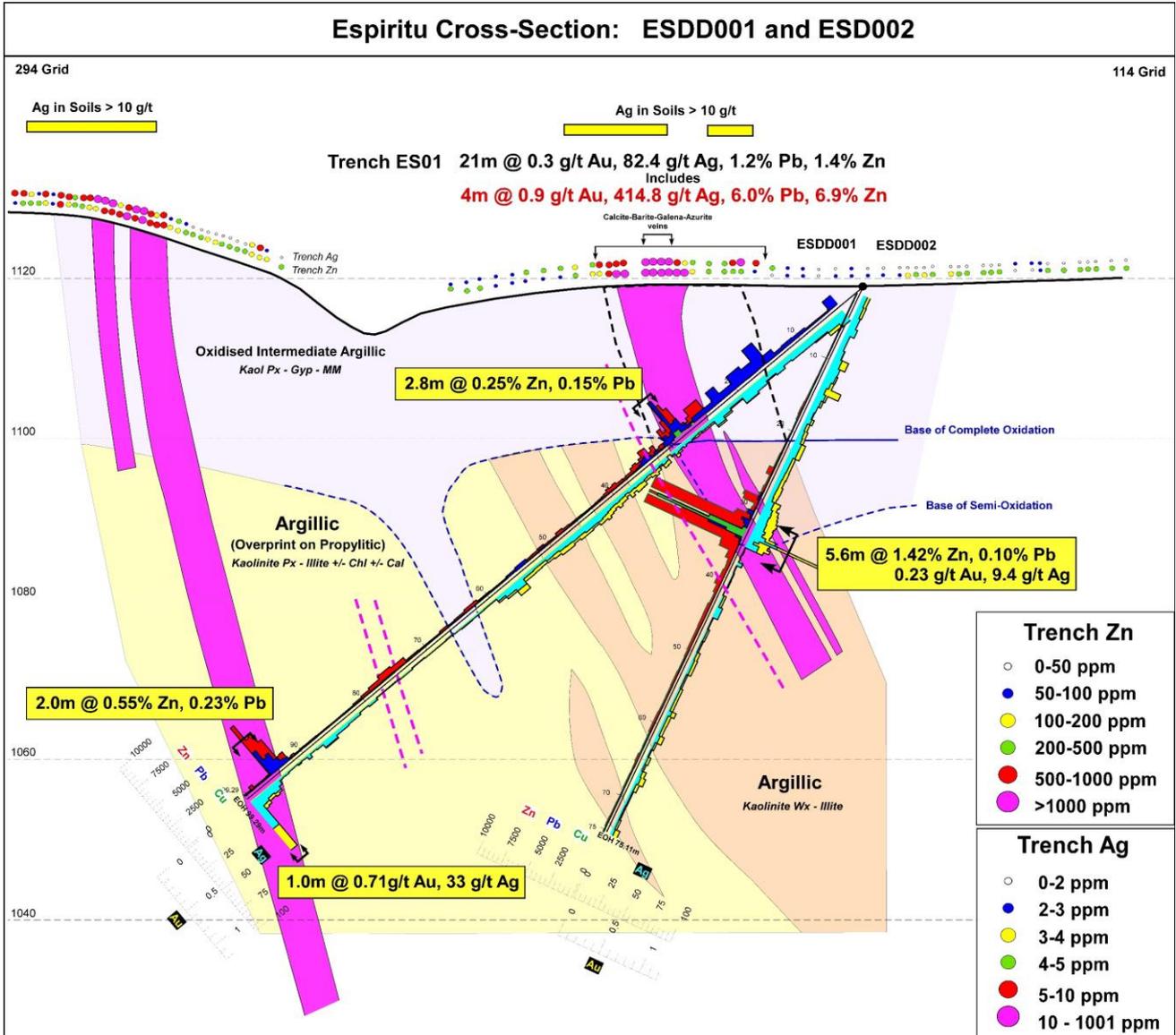


Figure 4: Cross section showing drill holes ESDD005 and 006

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Figures 5: Cross section showing drill holes ESDD001 and 002.

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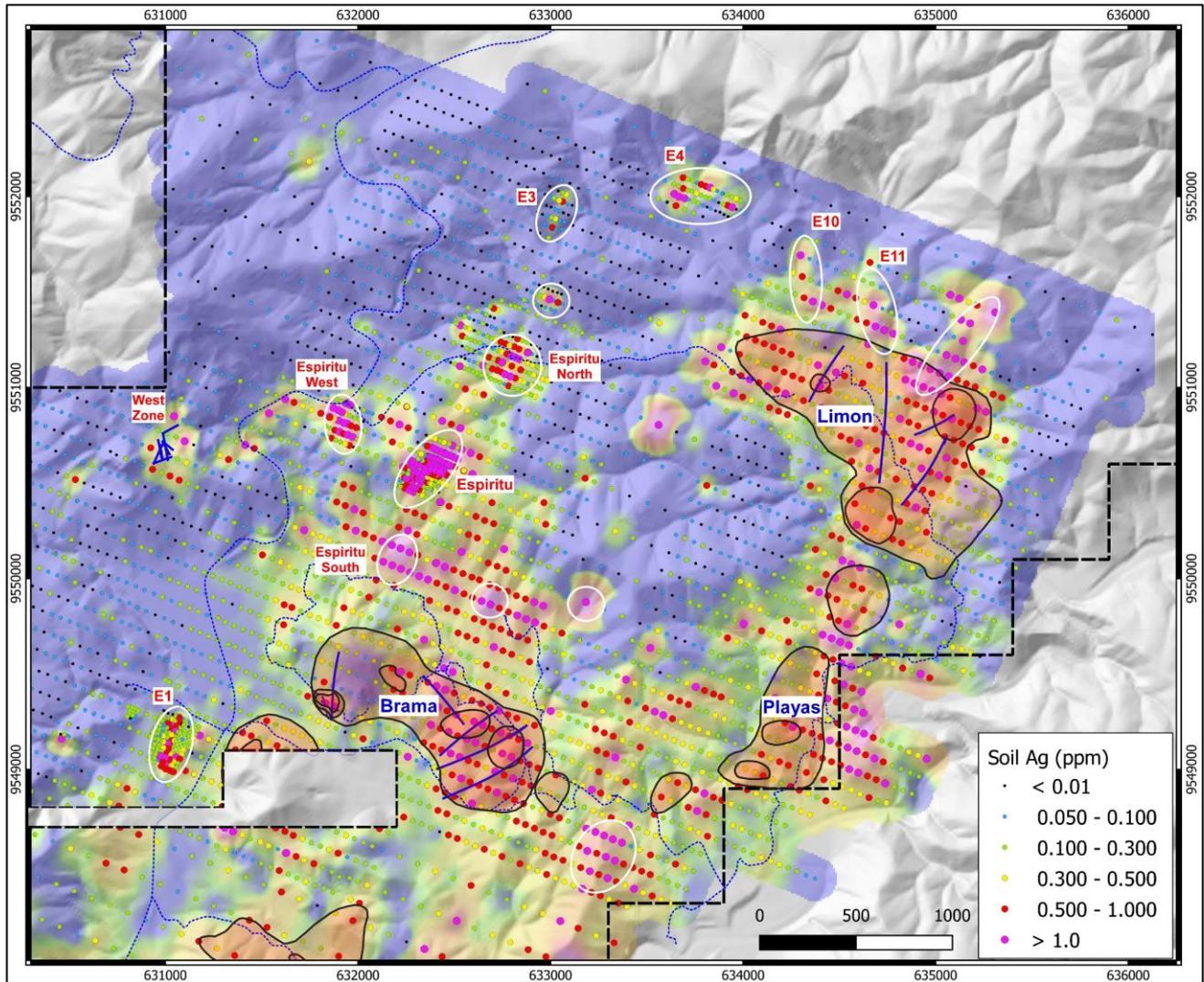


Figure 6: Location and status of other Espiritu style targets in the vicinity of the Espiritu drilling program. Target areas are outlined in white and are the subject of infill soil sampling and detailed geological mapping.

Table 2: Drill hole location details

Hole ID	Easting (m)	Northing (m)	RL (m)	Dip (deg)	Azimuth_GRID (deg)	Final EOH (m)
	PSAD56 (Zone 17S)	PSAD56 (Zone 17S)				
ESDD001	632470	9550572	1119	-40	294	99.29
ESDD002	632470	9550572	1119	-65	294	75.11
ESDD003	632300	9550604	1136	-35	146	183.14
ESDD004	632300	9550604	1136	-52	146	267.02
ESDD005	632300	9550604	1136	-50	170	301.07

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About Sunstone Metals

Sunstone has an advanced portfolio of exploration and development projects in Ecuador and Scandinavia. The portfolio comprises:

1. **The Bramaderos Gold-Copper Project** where Sunstone owns an 87.5% interest with TSXV listed Cornerstone Capital Resources holding 12.5% (see ASX announcement dated 10th April 2017, 28th August 2019, and 7 January 2020). The Bramaderos gold-copper project is located in Loja province, southern Ecuador, and is highly prospective for the discovery of large porphyry gold-copper systems, and high-grade epithermal gold systems. Historical exploration results from drilling at Bramaderos together with recent exploration by Sunstone and joint venture partner Cornerstone Capital Resources (TSXV:CGP) indicate multiple fertile mineralised systems with significant discovery potential.
2. **The El Palmar Copper-Gold Project** where the highly prospective 800ha El Palmar copper-gold porphyry project in Ecuador will be acquired through a Staged Acquisition Agreement, which will ultimately deliver 100 per cent ownership to Sunstone.
3. **Sunstone has a significant equity interest** of ~24% in Stockholm listed Copperstone Resources (COPP-B.ST) following the sale of the Viscaria Copper project to Copperstone in 2019.
4. **The Southern Finland Gold Project** includes the Satulinmäki gold prospect. Shallow diamond drilling was completed by the Geological Survey of Finland (GTK) during the period 2000-2005 and this was followed by a 7-hole diamond drilling program by Sunstone Metals in 2016. Intersections from GTK include 18m @ 4.1g/t Au from 50m downhole, including 3m @ 9.3g/t Au, and 4m @ 10.3g/t Au in drill hole R391. Intersections by Sunstone include 23.5m at 3.3g/t in SMDD007 and 2m at 10.5g/t in SMDD005. The Satulinmäki gold prospect is part of an earn-in JV with Canadian company Nortec Minerals, where Sunstone holds an ~83% interest.
5. **The Scandinavian Lithium Project** includes the Kietyönmäki lithium prospect. Drilling by Sunstone has delivered 24.2m at 1.4% Li₂O in a spodumene-bearing pegmatite. Kietyönmäki is also part of the JV with Nortec Minerals.

Competent Persons Statement

The information in this report that relates to exploration results is based upon information reviewed by Dr Bruce Rohrlach who is a Member of the Australasian Institute of Mining and Metallurgy. Dr Rohrlach is a full-time employee of Sunstone Metals Ltd and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Dr Rohrlach consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

Mr Malcolm Norris, Managing Director of Sunstone Metals Ltd., has authorised this announcement to be lodged with the ASX.

For further information, please visit www.sunstonemetals.com.au

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APPENDIX 1

The following Table and Sections are provided to ensure compliance with the JORC Code (2012 Edition)

TABLE 1 – Section 1: Sampling Techniques and Data

Criteria	JORC Code explanation	Commentary
Sampling techniques	<ul style="list-style-type: none"> Nature and quality of sampling (e.g. cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as downhole gamma sondes, or handheld XRF instruments, etc.). These examples should not be taken as limiting the broad meaning of sampling. 	<ul style="list-style-type: none"> The results announced here are from soil samples, historical rock chip samples, hand cut trench samples, and drilling samples. The drill core sampling was carried out using half core, generally at 1m intervals and where appropriate sampled to 0.3m intervals.
	<ul style="list-style-type: none"> Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used. 	<ul style="list-style-type: none"> Soil samples were taken on a grid basis Rock samples were taken randomly with focus on those exhibiting alteration and mineralisation, and samples from within a hand dug trench and hand cut channel samples. Core recovery was good, and core aligned prior to splitting.
	<ul style="list-style-type: none"> Aspects of the determination of mineralisation that are Material to the Public Report. In cases where 'industry standard' work has been done this would be relatively simple (e.g. 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases, more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (e.g. submarine nodules) may warrant disclosure of detailed information. 	<ul style="list-style-type: none"> Diamond drilling, rock chip and channel sampling points have been guided by geological mapping. The samples from Espiritu were dried, crushed to 70% passing 2mm, Split 1000g and pulverised to 85% passing 75microns. A 20g portion of this sample was used for multi-element analysis (IMS-230) and a 30g sample for Fire Assay Au (FAS-111).
Drilling techniques	<ul style="list-style-type: none"> Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (e.g. core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc). 	<ul style="list-style-type: none"> The Espiritu target area has not been drilled by any phases of historical exploration. Current drilling by Sunstone is diamond core drilling and has drilled to various depths up to 301m. The diamond core was drilled delivering either HTW (70.9mm) or NTW (56mm) core. Drill core is oriented using a Reflex ACT II tool for bottom of hole.
Drill sample recovery	<ul style="list-style-type: none"> Method of recording and assessing core and chip sample recoveries and results assessed. 	<ul style="list-style-type: none"> Diamond core recovery data for this drilling was measured for each drill run and captured in a digital logging software package. The data has been reviewed and core recovery was approximately 100% throughout.
	<ul style="list-style-type: none"> Measures taken to maximise sample recovery and ensure representative nature of the samples. 	<ul style="list-style-type: none"> Core recovery was good, no extra measures were taken to maximise sample recovery.
	<ul style="list-style-type: none"> Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material. 	<ul style="list-style-type: none"> No relationship between sample recovery and grade has been established.
Logging	<ul style="list-style-type: none"> Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies. 	<ul style="list-style-type: none"> Drill samples, trench samples and rock chips were logged for lithology, weathering, structure, mineralogy, mineralisation, colour, and other features. Logging and sampling were carried out according to Sunstone's internal protocols and QAQC procedures which comply with industry standards.
	<ul style="list-style-type: none"> Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc.) photography. 	<ul style="list-style-type: none"> Drill samples, and trench and rock chip samples are logged for lithology, weathering, structure, mineralogy, mineralisation, colour, and other features.
	<ul style="list-style-type: none"> The total length and percentage of the relevant intersections logged. 	<ul style="list-style-type: none"> The drill holes and trenches are logged in full, from start to finish of the excavation.

ASX ANNOUNCEMENT

Criteria	JORC Code explanation	Commentary
Sub-sampling techniques and sample preparation	<ul style="list-style-type: none"> If core, whether cut or sawn and whether quarter, half or all core taken. 	<ul style="list-style-type: none"> Half core was used to provide the samples that were submitted for assay. Quarter core samples were taken ~1 in every 28 samples for duplicate sampling. The remaining core is left in the core trays.
	<ul style="list-style-type: none"> If non-core, whether riffled, tube sampled, rotary split, etc. and whether sampled wet or dry. 	<ul style="list-style-type: none"> Standard soil, rock chip samples, and channel samples.
	<ul style="list-style-type: none"> For all sample types, the nature, quality and appropriateness of the sample preparation technique. 	<ul style="list-style-type: none"> Surface and drill core samples from Espiritu were sent to the LAC y Asociados Cia. Ltda. Sample Preparation Facility in Cuenca, Ecuador for sample preparation. The standard sample preparation for drill core samples (Code PRP-910) is: Drying the sample, crushing to size fraction 70% <2mm and splitting the sample to a 250g portion by riffle or Boyd rotary splitter. The 250g sample is then pulverised to >85% passing 75 microns and then split into two 50g pulp samples. Then one of the pulp samples was sent to the MS Analytical Laboratory in Vancouver (Unit 1, 20120 102nd Avenue, Langley, BC V1M 4B4, Canada) for gold and base metal analysis. The sample preparation is carried out according to industry standard practices using highly appropriate sample preparation techniques.
	<ul style="list-style-type: none"> Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples. 	<ul style="list-style-type: none"> Sunstone used an industry standard QAQC programme involving Certified Reference Materials “standards” and blank samples, which were introduced in the assay batches. Standards (Certified Reference Materials) or analytical blanks were submitted at a rate of 1 in 28 samples. Field duplicates were also taken at a rate of approximately 1 in 28 samples. The check or duplicate assay results are reported along with the sample assay values in the final analysis report.
	<ul style="list-style-type: none"> Measures taken to ensure that the sampling is representative of the in-situ material collected, including for instance results for field duplicate/second-half sampling. 	<ul style="list-style-type: none"> For diamond core, the routine sample procedure is to always take the half/quarter core to the right of the orientation line (looking down hole) or the cut line (in cases where the orientation line was not reliable). Once assay results are received the results from duplicate samples are compared with the corresponding routine sample to ascertain whether the sampling is representative.
<ul style="list-style-type: none"> Whether sample sizes are appropriate to the grain size of the material being sampled. 	<ul style="list-style-type: none"> Sample sizes are considered to be appropriate for the style of sampling undertaken and the grain size of the material, and correctly represent the style and type of mineralisation at the exploration stage. 	
Quality of assay data and laboratory tests	<ul style="list-style-type: none"> The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total. 	<ul style="list-style-type: none"> Sunstone uses a fire assay gold technique for Au assays (FAS-111) and a four acid multi element technique (IMS-230) for a suite of 48 elements. FAS-111 involves Au by Fire Assay on a 30-gram aliquot, fusion and atomic absorption spectroscopy (AAS) at trace levels. IMS-20 is considered a near total 4 acid technique using a 20g aliquot followed by multi-element analysis by ICP-AES/MS at ultra-trace levels. This analysis technique is considered suitable for this style of mineralisation.
	<ul style="list-style-type: none"> For geophysical tools, spectrometers, handheld XRF instruments, etc., the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc. 	<ul style="list-style-type: none"> Handheld XRF data are used as a guide to areas of potential mineralisation and samples from these areas are sent for laboratory analysis as described above.

ASX ANNOUNCEMENT

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	<ul style="list-style-type: none"> Nature of quality control procedures adopted (e.g. standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (i.e. lack of bias) and precision have been established. 	<ul style="list-style-type: none"> Standards, blanks and duplicates are inserted ~1/28 samples. The values of the standards range from low to high grade and are considered appropriate to monitor performance of values near cut-off and near the mean grade of the deposit. The check sampling results are monitored, and performance issues are communicated to the laboratory if necessary. 																				
Verification of sampling and assaying	<ul style="list-style-type: none"> The verification of significant intersections by either independent or alternative company personnel. 	<ul style="list-style-type: none"> Procedure checks have been completed by the Competent Person for exploration results for this announcement. 																				
	<ul style="list-style-type: none"> The use of twinned holes. 	<ul style="list-style-type: none"> Twin holes have not been drilled in this area. 																				
	<ul style="list-style-type: none"> Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols. 	<ul style="list-style-type: none"> Sunstone sampling data were imported and validated using Excel. 																				
	<ul style="list-style-type: none"> Discuss any adjustment to assay data. 	<ul style="list-style-type: none"> Assay data were not adjusted. Core loss intervals are assigned assay values of zero where present. 																				
Location of data points	<ul style="list-style-type: none"> Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation. 	<ul style="list-style-type: none"> Sample co-ordinates are located by GPS and for trench samples measured along the length of the trench. 																				
	<ul style="list-style-type: none"> Specification of the grid system used. 	<ul style="list-style-type: none"> Southern Ecuador projection parameters: <table border="1"> <thead> <tr> <th>Parameter</th> <th>Value</th> </tr> </thead> <tbody> <tr> <td>Reference Ellipsoid</td> <td>International 1924</td> </tr> <tr> <td>Semi Major Axis</td> <td></td> </tr> <tr> <td>Inverse Flattening (1/f)</td> <td></td> </tr> <tr> <td>Type of Projection</td> <td>UTM Zone -17S (Datum PSAD56)</td> </tr> <tr> <td>Central Meridian:</td> <td>-81.0000</td> </tr> <tr> <td>Latitude of Origin</td> <td>0.0000</td> </tr> <tr> <td>Scale on Central Meridian</td> <td>0.9996</td> </tr> <tr> <td>False Northing</td> <td>10000000</td> </tr> <tr> <td>False Easting</td> <td>500000</td> </tr> </tbody> </table>	Parameter	Value	Reference Ellipsoid	International 1924	Semi Major Axis		Inverse Flattening (1/f)		Type of Projection	UTM Zone -17S (Datum PSAD56)	Central Meridian:	-81.0000	Latitude of Origin	0.0000	Scale on Central Meridian	0.9996	False Northing	10000000	False Easting	500000
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<ul style="list-style-type: none"> Quality and adequacy of topographic control. 	<ul style="list-style-type: none"> The topographic control was compared against published maps and satellite imagery and found to be good quality. 																					
Data spacing and distribution	<ul style="list-style-type: none"> Data spacing for reporting of Exploration Results. 	<ul style="list-style-type: none"> The drill core samples were collected from five diamond drill holes from the Espiritu target, and with sample length generally ranging between 0.3-1m. 																				
	<ul style="list-style-type: none"> Whether the data spacing, and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied. 	<ul style="list-style-type: none"> The data from these samples does not contribute to any resource estimate nor implies any grade continuity. 																				
	<ul style="list-style-type: none"> Whether sample compositing has been applied. 	<ul style="list-style-type: none"> No sample compositing was done. 																				
Orientation of data in relation to geological structure	<ul style="list-style-type: none"> Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type. 	<ul style="list-style-type: none"> Drilling orientations were appropriate for the interpreted geology providing representative samples. Trench orientations and rock chip locations were appropriate for the interpreted geology providing representative samples. 																				
	<ul style="list-style-type: none"> If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material. 	<ul style="list-style-type: none"> No sampling bias is expected at this stage. There has been no historical drilling on this target. 																				

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Criteria	JORC Code explanation	Commentary
Sample security	<ul style="list-style-type: none"> The measures taken to ensure sample security. 	<ul style="list-style-type: none"> Sunstone sampling procedures indicate individual samples were given due attention. Sample security was managed through sealed individual samples and sealed bags of multiple samples for secure delivery to the laboratory by permanent staff of the joint venture. MS Analytical is an internationally accredited laboratory that has all its internal procedures heavily scrutinised in order to maintain their accreditation. MS Analytical is accredited to ISO/IEC 17025 2005 Accredited Methods.
Audits or reviews	<ul style="list-style-type: none"> The results of any audits or reviews of sampling techniques and data. 	<ul style="list-style-type: none"> Sunstone's (and previously Cornerstone's) sampling techniques and data have been audited multiple times by independent mining consultants during various project assessments. These audits have concluded that the sampling techniques and data management are to industry standards. All historical data has been validated to the best degree possible and migrated into a database.

TABLE 1 – Section 2: Exploration Results

Criteria	JORC Code explanation	Commentary
Mineral tenement and land tenure status	<ul style="list-style-type: none"> Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings. 	<ul style="list-style-type: none"> The Bramaderos Exploration Concession is located in the Loja Province of southern Ecuador. The concession was granted to La Plata Minerales S.A. ("PLAMIN") in January 2017. PLAMIN is a subsidiary of Sunstone Metals Ltd. The concession is subject to a Joint Venture between Cornerstone Capital Resources Inc. and Sunstone Metals Ltd. There are no wilderness areas or national parks or areas of environmental significance within or adjoining the concession area. There are no native title interests.
	<ul style="list-style-type: none"> The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area. 	<ul style="list-style-type: none"> The Bramaderos Exploration Concession was granted to La Plata Minerales S.A. ("PLAMIN") in January 2017. PLAMIN is now a subsidiary of Sunstone Metals Ltd. The Bramaderos Concession is subject to a Joint Venture between Sunstone Metals and Cornerstone. Sunstone has an 87.5% interest in the JV.
Exploration done by other parties	<ul style="list-style-type: none"> Acknowledgment and appraisal of exploration by other parties. 	<ul style="list-style-type: none"> The historic exploration at Bramaderos was completed by various groups over the period 1970-1984, 2001-2002 and 2004-2007. Most of the readily available historic data has been acquired and compiled into databases and a GIS project. Exploration by other parties has included stream sediment surveys, geological mapping, rock chip sampling (888 samples) and grid-based soil sampling (1324 samples), trenching and channel sampling (17 trenches), ground magnetic surveys (31 line kilometres), electrical IP surveys and diamond drilling (10426m). No significant historical exploration has been undertaken in the Espiritu target area.
Geology	<ul style="list-style-type: none"> Deposit type, geological setting and style of mineralisation. 	<ul style="list-style-type: none"> The deposit style being explored for includes intrusion-related and stockwork hosted porphyry Au-Cu systems plus epithermal gold-silver-polymetallic veins. The setting at Espiritu is a volcanic arc setting of Cretaceous age intrusions.

ASX ANNOUNCEMENT

Criteria	JORC Code explanation	Commentary
Drill hole Information	<ul style="list-style-type: none"> A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes: <ol style="list-style-type: none"> easting and northing of the drill hole collar elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar dip and azimuth of the hole down hole length and interception depth hole length. 	<ul style="list-style-type: none"> Details of the samples discussed in this announcement are in the body of the text. See Figures 3-6 for the location of soil sampling and trenching activities at Espiritu, and nearby areas.
	<ul style="list-style-type: none"> If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the understanding of the report, the Competent Person should clearly explain why this is the case. 	<ul style="list-style-type: none"> Information included in announcement.
Data aggregation methods	<ul style="list-style-type: none"> In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (e.g. cutting of high grades) and cut-off grades are usually Material and should be stated. 	<ul style="list-style-type: none"> Weighted averages were calculated over reported intervals according to sample length. No grade cut-offs were applied.
	<ul style="list-style-type: none"> Where aggregate intercepts incorporate short lengths of high-grade results and longer lengths of low-grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail. 	<ul style="list-style-type: none"> No aggregating of intervals undertaken at this stage.
	<ul style="list-style-type: none"> The assumptions used for any reporting of metal equivalent values should be clearly stated. 	<ul style="list-style-type: none"> Metal equivalents are not presented.
Relationship between mineralisation widths and intercept lengths	<ul style="list-style-type: none"> If the geometry of the mineralisation with respect to the drill-hole angle is known, its nature should be reported. 	<ul style="list-style-type: none"> Figures 3-5 shows the interpreted strike orientation of the mineralised lodes based on mapping and interpretation of detailed magnetic data.
	<ul style="list-style-type: none"> If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (e.g. 'down hole length, true width not known'). 	<ul style="list-style-type: none"> True widths of mineralised lodes are not known at this stage.
Diagrams	<ul style="list-style-type: none"> Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported. These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views. 	<ul style="list-style-type: none"> See Figures 3-6 for maps showing distribution of samples.
Balanced reporting	<ul style="list-style-type: none"> Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results. 	<ul style="list-style-type: none"> Figures 3-5 above show the current interpretations of geology.
Other substantive exploration data	<ul style="list-style-type: none"> Other exploration data, if meaningful and material, should be reported) including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances. 	<ul style="list-style-type: none"> Figures 3-6 above show various datasets that are being used to identify target areas and to guide current and future drilling.
Further work	<ul style="list-style-type: none"> The nature and scale of planned further work (e.g. tests for lateral extensions or depth extensions or large-scale step-out drilling). 	<ul style="list-style-type: none"> The planned exploration program is outlined in the announcement.
	<ul style="list-style-type: none"> Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive. 	<ul style="list-style-type: none"> See Figures 3-6 which show areas for further exploration.