

RESERVES AND RESOURCES AS AT DECEMBER 31, 2018

<i>Resources shown inclusive of Reserves</i>	ON A 100% BASIS			ON AN ATTRIBUTABLE BASIS		
	Tonnage (Mt)	Grade (Au g/t)	Content (Au koz)	Tonnage (Mt)	Grade (Au g/t)	Content (Au koz)
Agbaou Mine (85% owned)						
Proven Reserves	0.3	1.63	16	0.3	1.63	13
Probable Reserves	8.3	1.67	445	7.1	1.67	379
P&P Reserves	8.6	1.66	461	7.3	1.66	392
Measured Resource (incl. reserves)	1.9	0.87	54	1.6	0.87	46
Indicated Resources (incl. reserves)	7.6	2.51	610	6.4	2.51	518
M&I Resources (incl. reserves)	9.5	2.18	664	8.1	2.18	564
Inferred Resources	0.8	1.72	46	0.7	1.72	39
Houndé Mine (90% owned)						
Proven Reserves	3.5	1.53	174	3.2	1.53	156
Probable Reserves	24.0	2.03	1,566	21.6	2.03	1,409
P&P Reserves	27.5	1.97	1,740	24.8	1.97	1,566
Measured Resource (incl. reserves)	3.6	1.56	180	3.2	1.56	162
Indicated Resources (incl. reserves)	41.2	2.23	2,954	37.0	2.23	2,658
M&I Resources (incl. reserves)	44.7	2.18	3,134	40.3	2.18	2,821
Inferred Resources	3.2	2.64	268	2.8	2.64	241
Ity Mine (85% owned except 100% owned Le Plaque area)						
Proven Reserves	0.0	1.45	2	0.0	1.45	2
Probable Reserves	60.7	1.55	3,036	51.6	1.55	2,581
P&P Reserves	60.8	1.55	3,039	51.7	1.55	2,583
Measured Resource (incl. reserves)	1.4	0.97	44	1.2	0.97	37
Indicated Resources (incl. reserves)	72.2	1.55	3,602	61.5	1.55	3,074
M&I Resources (incl. reserves)	73.6	1.54	3,646	62.7	1.54	3,111
Inferred Resources	19.1	1.34	823	16.3	1.34	706
Karma Mine (90% owned)						
Proven Reserves	1.3	0.56	24	1.2	0.56	22
Probable Reserves	26.2	0.88	740	23.6	0.88	666
P&P Reserves	27.5	0.86	764	24.8	0.86	688
Measured Resource (incl. reserves)	1.3	0.66	28	1.2	0.66	25
Indicated Resources (incl. reserves)	74.0	1.10	2,627	66.6	1.10	2,364
M&I Resources (incl. reserves)	75.3	1.10	2,655	67.8	1.10	2,389
Inferred Resources	17.9	1.34	772	16.1	1.34	695
Kalana Project (80% owned)						
Proven Reserves	5.1	3.00	492	4.1	3.00	394
Probable Reserves	16.6	2.76	1,472	13.3	2.76	1,177
P&P Reserves	21.7	2.81	1,964	17.4	2.81	1,571
Measured Resource (incl. reserves)	9.5	4.19	1,280	7.6	4.19	1,024
Indicated Resources (incl. reserves)	16.3	3.74	1,964	13.1	3.74	1,571
M&I Resources (incl. reserves)	25.8	3.92	3,254	20.7	3.92	2,603
Inferred Resources	1.9	4.41	265	1.5	4.41	212
Fetekro (65% owned)						
Proven Reserves	-	-	-	-	-	-
Probable Reserves	-	-	-	-	-	-
P&P Reserves	-	-	-	-	-	-
Measured Resource (incl. reserves)	-	-	-	-	-	-
Indicated Resources (incl. reserves)	6.9	2.25	499	4.5	2.25	324
M&I Resources (incl. reserves)	6.9	2.25	499	4.5	2.25	324
Inferred Resources	3.0	2.31	221	1.9	2.31	144
Total - Endeavour Mining						
Proven Reserves	10.3	2.13	707	8.8	2.08	587
Probable Reserves	135.8	1.66	7,259	117.1	1.65	6,212
P&P Reserves	146.2	1.70	7,967	125.9	1.68	6,799
Measured Resource (incl. reserves)	17.8	2.78	1,586	14.9	2.71	1,295
Indicated Resources (incl. reserves)	218.1	1.75	12,255	189.1	1.73	10,510
M&I Resources (incl. reserves)	235.9	1.83	13,851	204.0	1.80	11,813
Inferred Resources	45.9	1.62	2,394	39.4	1.61	2,036

The mineral reserves and resources were estimated as at December 31, 2018 in accordance with the provisions adopted by the Canadian Institute of Mining Metallurgy and Petroleum (CIM) and incorporated into the NI 43-101. The Qualified Persons responsible for the mineral reserve and resource estimates are detailed in the following tables.

MINERAL RESOURCES

QUALIFIED PERSON	POSITION	PROPERTY/DEPOSIT
Kevin Harris, CPG	V.P. Resources, Endeavour Mining	Agbaou, Colline Sud deposit (Ity), North Kao deposit (Karma), Bouere and Dohoun deposits (Houndé)
Mark Zammit, MAIG	Principal, Cube Consulting Pty Ltd	Ity (except Colline Sud deposit), Vindaloo deposits (Houndé)
Eugene Puritch, P.Eng.	President, P&E Mining Consultants Inc	Karma (except North Kao deposit)
Ivor Jones, FAusIMM	Principal Consultant, Denny Jones (Pty) Ltd	Kalana Project

MINERAL RESERVES

QUALIFIED PERSON	POSITION	PROPERTY/DEPOSIT
Michael Alyoshin, MAusIMM CP (Min)	An independent consultant	Bouere and Dohoun deposits of Houndé, and North Kao deposit of Karma.
Jan Dharmabandu, FIMMM	Group Manager – Long Term Planning, Endeavour Mining	Ity, Agbaou, Houndé – except Bouere and Dohoun deposits, and Karma – except North Kao, Nami and GG1.
Eugene Puritch, P.Eng.	President, P&E Mining Consultants Inc	Nami & GG1 of Karma
Allan Earl, FAusIMM	Executive Consultant, Snowden Mining Industry Consultants (Pty) Ltd	Kalana Project, Ity (CIL)

1. The mineral resources and reserves have been estimated and reported in accordance with Canadian National Instrument 43-101, 'Standards of Disclosure for Mineral Projects' and the Definition Standards adopted by CIM Council in May 2014.
2. Mineral resources that are not mineral reserves do not have demonstrated economic viability.
3. All Mineral Resources are reported inclusive of Mineral Reserves.
4. Tonnages are rounded to the nearest 100,000 tonnes; gold grades are rounded to two decimal place; ounces are rounded to the nearest 1,000oz. Rounding may result in apparent summation differences between tonnes, grade and contained metal.
5. Tonnes and grade measurements are in metric units; contained gold is in troy ounces.
6. The reporting of Mineral Reserves and Resources are based on a gold price as detailed below:

Project ¹	Agbaou	Kalana	Ity	Karma ²	Houndé	Fetekro
Reserves Au price	1,250	1,200	1,250	1,300	1,250	n.a.
Resources Au price	1,500	1,400	1,500	1,557	1,500	1,500

¹ Cut off grades for all resources open pits are 0.5g/tAu, except at Kalana where the cutoff grade is at 0.9g/tAu and at Karma where the cut-off grade is defined by material type: Oxide=0.2, Transition=0.22 and Sulfide=0.5.

Cut off grades for reserves except for Karma and Kalana vary between 0.4-0.6g/t for Oxide ore, 0.4-0.8g/t for Transition ore & 0.6-0.8g/t for Sulfide ore. For Karma Cut-off grade vary between 0.3-0.4g/t.

² North Kao resources has a gold price of \$1,500/oz. Gold price for Kao Main and Rambo West reserves is \$1350/oz.

The scientific and technical information relating to the Agbaou mine, Ity mine, Karma mine, Houndé mine and Kalana Project contained in this document has been derived from or based on the following technical reports. Copies of the reports are available electronically on SEDAR at www.sedar.com under the Corporation's profile. The Kalana report is available under the Avnel Gold Mining profile on SEDAR.

- Agbaou mine: "Technical Report, Mineral Resource and Reserve Update for the Agbaou Gold Mine, Côte d'Ivoire, West Africa" dated effective December 31, 2014.
- Ity mine: "Ity CIL Project National Instrument 43-101 Technical Report", dated December 9, 2016.
- Ity mine: Reserves and Resources were updated in 2017 after the completion of a Project Optimization Study. The results were published in the September 20, 2017 press release available on the company's website.
- Karma mine: "Technical Report on an updated Feasibility Study and a Preliminary Economic Assessment for the Karma Gold Project, Burkina Faso, West Africa" dated effective August 10, 2014.
- Houndé mine: "Houndé Gold Project, Burkina Faso, Feasibility Study NI 43-101 Technical Report", dated effective October 31, 2013.

- Houndé mine: Reserves were updated in 2015 by Orelogy "Cost review and Reserve update study", dated February 2015. Endeavour News Release February 19, 2015
- Kalana Project: "NI 43-101 Technical Report on Kalana Main Project", dated effective March 30, 2016.

RESERVES AND RESOURCES: YEAR-OVER-YEAR COMPARISON

Resources shown inclusive of Reserves, on a 100% basis	AS AT DECEMBER 31, 2017			AS AT DECEMBER 31, 2018		
	Tonnage (Mt)	Grade (Au g/t)	Content (Au koz)	Tonnage (Mt)	Grade (Au g/t)	Content (Au koz)
Agbaou Mine						
Proven Reserves	1.0	1.41	44	0.3	1.63	16
Probable Reserves	7.9	2.45	624	8.3	1.67	445
P&P Reserves	8.9	2.34	668	8.6	1.66	461
Measured Resource (incl. reserves)	1.0	1.43	47	1.9	0.87	54
Indicated Resources (incl. reserves)	9.3	2.54	757	7.6	2.51	610
M&I Resources (incl. reserves)	10.3	2.43	804	9.5	2.18	664
Inferred Resources	1.0	1.74	54	0.8	1.72	46
Houndé Mine						
Proven Reserves	3.6	2.25	263	3.5	1.53	174
Probable Reserves	26.5	1.98	1,693	24.0	2.03	1,566
P&P Reserves	30.2	2.02	1,957	27.5	1.97	1,740
Measured Resource (incl. reserves)	3.6	2.40	281	3.6	1.56	180
Indicated Resources (incl. reserves)	33.7	2.01	2,178	41.2	2.23	2,954
M&I Resources (incl. reserves)	37.3	2.05	2,459	44.7	2.18	3,134
Inferred Resources	3.2	2.64	275	3.2	2.64	268
Ity Mine						
Proven Reserves	0.3	1.41	14	0.0	1.45	2
Probable Reserves	58.6	1.59	3,001	60.7	1.55	3,036
P&P Reserves	58.9	1.59	3,016	60.8	1.55	3,039
Measured Resource (incl. reserves)	0.7	0.63	15	1.4	0.97	44
Indicated Resources (incl. reserves)	73.1	1.57	3,680	72.2	1.55	3,602
M&I Resources (incl. reserves)	73.9	1.56	3,695	73.6	1.54	3,646
Inferred Resources	18.7	1.31	785	19.1	1.34	823
Karma Mine						
Proven Reserves	0.7	0.63	15	1.3	0.56	24
Probable Reserves	33.8	0.89	971	26.2	0.88	740
P&P Reserves	34.6	0.89	986	27.5	0.86	764
Measured Resource (incl. reserves)	0.7	0.63	15	1.3	0.66	28
Indicated Resources (incl. reserves)	81.0	1.10	2,856	74.0	1.10	2,627
M&I Resources (incl. reserves)	81.8	1.09	2,871	75.3	1.10	2,655
Inferred Resources	21.4	1.32	909	17.9	1.34	772
Kalana Project						
Proven Reserves	5.1	3.00	492	5.1	3.00	492
Probable Reserves	16.6	2.76	1,472	16.6	2.76	1,472
P&P Reserves	21.7	2.81	1,964	21.7	2.81	1,964
Measured Resource (incl. reserves)	9.5	4.19	1,280	9.5	4.19	1,280
Indicated Resources (incl. reserves)	14.2	3.96	1,810	16.3	3.74	1,964
M&I Resources (incl. reserves)	23.7	4.06	3,100	25.8	3.92	3,254
Inferred Resources	1.7	4.39	240	1.9	4.41	265
Fetekro						
Proven Reserves	-	-	-	-	-	-
Probable Reserves	-	-	-	-	-	-
P&P Reserves	-	-	-	-	-	-
Measured Resource (incl. reserves)	-	-	-	-	-	-
Indicated Resources (incl. reserves)	-	-	-	6.9	2.25	499
M&I Resources (incl. reserves)	-	-	-	6.9	2.25	499
Inferred Resources	-	-	-	3.0	2.31	221
Total from Continuing Operations						
Proven Reserves	10.8	2.39	829	10.3	2.13	707
Probable Reserves	143.5	1.68	7,761	135.8	1.66	7,259
P&P Reserves	154.3	1.73	8,590	146.2	1.70	7,967
Measured Resource (incl. reserves)	15.7	3.25	1,638	17.8	2.78	1,586
Indicated Resources (incl. reserves)	211.3	1.66	11,282	218.1	1.75	12,255
M&I Resources (incl. reserves)	226.9	1.77	12,929	235.9	1.83	13,851

<i>Resources shown inclusive of Reserves, on a 100% basis</i>	AS AT DECEMBER 31, 2017			AS AT DECEMBER 31, 2018		
	Tonnage (Mt)	Grade (Au g/t)	Content (Au koz)	Tonnage (Mt)	Grade (Au g/t)	Content (Au koz)
Inferred Resources	46.0	1.53	2,264	45.9	1.62	2,394
Tabakoto Mine						
Proven Reserves	2.4	3.32	251	-	-	-
Probable Reserves	2.4	3.40	266	-	-	-
P&P Reserves	4.8	3.36	517	-	-	-
Measured Resource (incl. reserves)	7.4	2.99	715	-	-	-
Indicated Resources (incl. reserves)	12.4	3.03	1,211	-	-	-
M&I Resources (incl. reserves)	19.9	3.01	1,925	-	-	-
Inferred Resources	7.4	3.40	810	-	-	-
Group Total						
Proven Reserves	13.1	2.56	1,080	10.3	2.13	707
Probable Reserves	145.9	1.71	8,027	135.8	1.66	7,259
P&P Reserves	159.0	1.78	9,106	146.2	1.70	7,967
Measured Resource (incl. reserves)	23.1	3.17	2,353	17.8	2.78	1,586
Indicated Resources (incl. reserves)	223.7	1.74	12,492	218.1	1.75	12,255
M&I Resources (incl. reserves)	246.8	1.87	14,855	235.9	1.83	13,851
Inferred Resources	53.5	1.79	3,074	45.9	1.62	2,394

Notes for the period ended December 31, 2018 are available in the section above. Notes for the period ended December 31, 2017 are available in the press release dated March 13, 2018 available on the Company's website and on SEDAR.