UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 6-K

REPORT OF FOREIGN PRIVATE ISSUER PURSUANT TO RULE 13a-16 OR 15d-16 UNDER THE SECURITIES EXCHANGE ACT OF 1934

For the month of October 2019

Commission File Number 001-12284

GOLDEN STAR RESOURCES LTD.

(Translation of registrant's name into English)

150 King Street West Suite 1200 Toronto, Ontario M5H 1J9, Canada (Address of principal executive office)

Indicate by check mark whether the registrant files or will file annual reports under cover of Form 20-F or Form 40-F.

Form 20-F □ Form 40-F ☑

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(1):

Indicate by check mark if the registrant is submitting the Form 6-K in paper as permitted by Regulation S-T Rule 101(b)(7):

INCORPORATION BY REFERENCE

Exhibits 99.1 and 99.2 included in this report on Form 6-K are each hereby incorporated by reference in the Registration Statements on Form S-8 of the Registrant, as each may be amended from time to time (File Nos. 333-105820, 333-105821, 333-118958, 333-169047, 333-175542, 333-211926 and 333-218064), and Form F-10 of the Registrant, as may be amended from time to time (File No. 333-234005), to the extent not superseded by documents or reports subsequently filed by us under the Securities Act of 1933 or the Securities Exchange Act of 1934, in each case as amended.

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

GOLDEN STAR RESOURCES LTD.

Date: October 30, 2019

(signed) André van Niekerk

André van Niekerk Executive Vice President and Chief Financial Officer

EXHIBIT INDEX

Exhibit		Description of Furnished Exhibit
	99.1	Management's Discussion and Analysis for the three and nine months ended September 30, 2019
	99.2	Condensed Interim Consolidated Financial Statements for the three and nine months ended September 30, 2019 and September 30, 2018
	99.3	Form 52-109F2 - Certification of Interim Filing - CEO
	99.4	Form 52-109F2 - Certification of Interim Filing - CFO



Management's Discussion and Analysis For the Three and Nine Months Ended September 30, 2019

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

The following management's discussion and analysis provides information that management believes is relevant to an assessment and understanding of the consolidated financial condition and results of operations of Golden Star Resources Ltd. and its subsidiaries ("Golden Star" or "the Company" or "we" or "our"). This Management's Discussion and Analysis of Financial Condition and Results of Operations ("MD&A") should be read in conjunction with the Company's condensed interim consolidated financial statements and related notes for the three and nine months ended September 30, 2019, which are prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board. This MD&A includes information available to, and is dated, October 30, 2019. Unless noted otherwise, all currency amounts are stated in U.S. dollars and all financial information presented in this MD&A is prepared in accordance with IFRS.

CAUTIONARY NOTE REGARDING FORWARD-LOOKING INFORMATION

This MD&A contains "forward-looking information" within the meaning of applicable Canadian securities laws and "forward-looking statements" within the meaning of the United States Private Securities Litigation Reform Act of 1995 concerning the business, operations and financial performance and condition of Golden Star. Generally, forward-looking information and statements can be identified by the use of forward-looking terminology such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", "believes" or variations of such words and phrases (including negative or grammatical variations) or statements that certain actions, events or results "may", "could", "would", "might" or "will be taken", "occur" or "be achieved" or the negative connotation or grammatical variation thereof. Forward-looking information and statements in this MD&A include, but are not limited to, information or statements with respect to: gold production, cash operating costs, and all-in sustaining costs estimates and guidance for 2019 on a consolidated basis; sustaining and development capital expenditure estimates and guidance for 2019 on a consolidated basis; the Company's achievement of 2019 consolidated guidance; expected grade and mine rates for 2019; planned exploration and drilling at Wassa and Prestea in the fourth quarter of 2019; expected management changes at the Company and its subsidiaries in the second half of 2019 and in the first half of 2020; the expected closing of the Company's Toronto office and relocation of the executive team; the evaluation of outcomes of Phase 2 design and schedule review of Prestea Underground by CSA Global for inclusion in the 2020 budget and guidance; the Company's debt servicing obligations for the remainder of 2019; the lower grade and lower mining rate at Prestea Underground for the remainder of 2019, partially offset by the extension of surface mining; lower grade at Wassa for the full year 2019 due to limited stope grade definition drilling and low mine plan flexibility, offset by an increase in ore tonnes mined; losses at Prestea during the remainder of 2019; the ability of Wassa to offset losses at Prestea; the outcome of the third party review of Prestea Underground and its operations; the timing for completion of the concept study at Father Brown and the results thereof and the sufficiency of cash available, operations and Credit Facility (as defined herein) to support the Company's operations and mandatory expenditures for the next twelve months.

Forward-looking information and statements are made based upon certain assumptions and other important factors that, if untrue, could cause the actual results, performance or achievements of Golden Star to be materially different from future results, performance or achievements expressed or implied by such statements. Such statements and information are based on numerous assumptions regarding present and future business strategies and the environment in which Golden Star will operate in the future, including the price of gold, anticipated costs and ability to achieve goals. Certain important factors that could cause actual results, performances or achievements to differ materially from those set forth in the forward-looking information and statements include, among others, gold price volatility, discrepancies between actual and estimated production, mineral reserves and resources and metallurgical recoveries, mining operational and development risks, litigation risks, liquidity risks, suppliers suspending or denying delivery of products or services, regulatory restrictions (including environmental regulatory restrictions and liability), actions by governmental authorities (including changes in taxation), currency fluctuations, the speculative nature of gold exploration, the global economic climate, dilution, share price volatility, the availability of capital on reasonable terms or at all, local and community impacts and issues, results of pending or future feasibility studies, competition, loss of key employees, additional funding requirements and defective title to mineral claims or property. Although Golden Star has attempted to identify important factors that cause actual results, performance or achievements to differ materially from those described in forward-looking information and statements, there may be other factors that cause actual results, performance or achievements not to be as anticipated, estimated or intended.

Forward-looking information and statements are subject to known and unknown risks, uncertainties and other important factors that may cause the actual results, performance or achievements of Golden Star to be materially different from those expressed or implied by such forward-looking information and statements, including but not limited to: risks related to international operations, including economic and political instability in foreign jurisdictions in which Golden Star operates; risks related to current global financial conditions; actual results of current exploration activities; environmental risks; future prices of gold; possible variations in mineral resources, grade or recovery rates; mine development and operating risks; an inability to obtain power for operations on favourable terms or at all; mining plant or equipment breakdowns or failures; an inability to obtain products or services for operations or mine development from vendors and suppliers on reasonable terms, including pricing, or at all;

accidents, labor disputes and other risks of the mining industry; delays in obtaining governmental approvals or financing or in the completion of development or construction activities; risks related to indebtedness and the service of such indebtedness, as well as those factors discussed in the section entitled "Risk Factors" in Golden Star's Annual Information Form for the year ended December 31, 2018 (filed on March 29, 2019). Although Golden Star has attempted to identify important factors that could cause actual results, performances and achievements to differ materially from those contained in forward-looking information and statements, there may be other factors that cause results, performance and achievements not to be as anticipated, estimated or intended. There can be no assurance that such statements will prove to be accurate, as actual results, performance, and achievements and future events could differ materially from those anticipated in such statements. Accordingly, readers should not place undue reliance on forward-looking information and statements. Forward-looking information and statements are made as of the date hereof and accordingly are subject to change after such date. Except as otherwise indicated by Golden Star, these statements do not reflect the potential impact of any non-recurring or other special items or of any dispositions, monetizations, mergers, acquisitions, other business combinations or other transactions that may be announced or that may occur after the date hereof. Forward-looking information and statements are provided for the purpose of providing information about management's current expectations and plans and allowing investors and others to get a better understanding of the Company's operating environment. Golden Star does not undertake to update any forward-looking information and statements that are included in this MD&A, except as required by applicable securities laws.

CAUTIONARY NOTE REGARDING RESERVES AND RESOURCES

Scientific and technical information contained in this MD&A was reviewed and approved by S. Mitchel Wasel, BSc Geology, who is a Qualified Person pursuant to National Instrument 43-101 ("NI 43-101"). Mr. Wasel is Vice President Exploration for Golden Star and an active member of the Australasian Institute of Mining and Metallurgy. All mineral reserves and mineral resources have been calculated in accordance with the standards of the Canadian Institute of Mining, Metallurgy and Petroleum ("CIM") and in compliance with the requirements of NI 43-101. All mineral resources are reported inclusive of mineral reserves. Mineral resources which are not mineral reserves do not have demonstrated economic viability. Information on data verification performed on, and other scientific and technical information relating to, the mineral properties mentioned in this MD&A that are considered to be material mineral properties of the Company are contained in Golden Star's Annual Information Form for the year ended December 31, 2018 and the following current technical reports for those properties available at www.sedar.com: (i) Wassa - "NI 43-101 Technical Report on Resources and Reserves, Golden Star Resources, Bogoso/Prestea Gold Mine, Ghana" effective date December 31, 2018; and (ii) Prestea Underground - "NI 43-101 Technical Report on Resources and Reserves, Golden Star Resources, Bogoso/Prestea Gold Mine, Ghana" effective date December 31, 2017.

Cautionary Note to U.S. Investors

This MD&A has been prepared in accordance with the requirements of the securities laws in effect in Canada, which differ materially from the requirements of United States securities laws applicable to U.S. companies. Information concerning our mineral properties has been prepared in accordance with the requirements of Canadian securities laws, which differ in material respects from the requirements of the United States Securities and Exchange Commission (the "SEC") set forth in Industry Guide 7. Under the SEC's Industry Guide 7, mineralization may not be classified as a "reserve" unless the determination has been made that the mineralization could be economically and legally produced or extracted at the time of the reserve determination, and the SEC does not recognize the reporting of mineral deposits which do not meet the SEC Industry Guide 7 definition of "Reserve". In accordance with NI 43-101, the terms "mineral resource", "measured mineral resource", "indicated mineral resource" and "inferred mineral resource" are recognized and required by NI 43-101, the SEC does not recognize them. You are cautioned that, except for that portion of mineral resources classified as a mineral resource" and so whether they can be economically or legally mined. It cannot be assumed that all or any part of an inferred mineral resource will ever be upgraded to a higher category. Likewise, you are cautioned not to assume that all or any part of measured mineral resource or indicated mineral resource will ever be upgraded into mineral resources.

OVERVIEW OF GOLDEN STAR

Golden Star is an established, African-focused gold producer that holds a 90% interest in two producing gold mines in Ghana.

The Wassa Complex ("Wassa") became an underground-only operation in January 2017. The Prestea Complex ("Prestea") comprises the Prestea Open Pits and the Prestea Underground Mine ("Prestea Underground") and is planned to become an underground-only operation. The Wassa Underground Mine ("Wassa Underground") achieved commercial production on January 1, 2017, and Prestea Underground achieved commercial production on February 1, 2018.

Golden Star's objective is to grow into a best-in-class, mid-tier gold producer. We aim to expand the Company and its production profile through the exploration and development of our existing mines, particularly Wassa, and through strategic value accretive acquisitions.

As the winner of the Prospectors & Developers Association of Canada 2018 Environmental and Social Responsibility Award, we are committed to leaving a positive and sustainable legacy in the locations where we operate.

The Company is a reporting issuer or the equivalent in all provinces of Canada, in Ghana and in the United States, and files disclosure documents with securities regulatory authorities in Canada and Ghana, and with the SEC in the United States.

SUMMARY OF OPERATING AND FINANCIAL RESULTS

		Three Montl Septemb		Nine Month Septemb		
OPERATING SUMMARY		2019	2018	2019	2018	
Wassa gold sold	OZ	33,875	38,295	114,599	112,397	
Prestea gold sold	OZ	14,663	19,364	36,177	64,181	
Total gold sold	OZ	48,538	57,659	150,776	176,578	
Wassa gold produced	OZ	34,565	38,097	114,831	112,135	
Prestea gold produced	oz	14,827	19,016	36,267	63,803	
Total gold produced	oz	49,392	57,113	151,098	175,938	
Average realized gold price ¹	\$/oz	1,432	1,175	1,318	1,236	

Cost of sales per ounce - Consolidated ²	\$/oz	1,108	998	1,046	1,102
Cost of sales per ounce - Wassa ²	\$/oz	923	817	818	919
Cost of sales per ounce - Prestea ²	\$/oz	1,536	1,355	1,767	1,433
Cash operating cost per ounce - Consolidated ²	\$/oz	888	780	832	831
Cash operating cost per ounce - Wassa ²	\$/oz	732	613	639	634
Cash operating cost per ounce - Prestea ²	\$/oz	1,249	1,110	1,442	1,188
All-in sustaining cost per ounce - Consolidated ²	\$/oz	1,233	994	1,135	1,077
All-in sustaining cost per ounce - Wassa ²	\$/oz	1,061	805	909	885
All-in sustaining cost per ounce - Prestea ²	\$/oz	1,630	1,367	1,852	1,424

¹ Average realized gold price per ounce in the nine months ended September 30, 2018 excludes 2,049 pre-commercial production ounces sold at Prestea Underground in January 2018.

² See "Non-GAAP Financial Measures" section for a reconciliation of cost of sales per ounce, cash operating cost per ounce and all-in sustaining cost per ounce to cost of sales excluding depreciation and amortization.



		Three Month Septemb		Nine Month Septemb	
FINANCIAL SUMMARY		2019	2018 ³	2019	2018 ³
Gold revenues	\$'000	69,504	67,738	198,676	215,678
Cost of sales excluding depreciation and amortization	\$'000	46,798	48,873	137,108	166,164
Depreciation and amortization	\$'000	6,979	8,659	20,590	26,115
Mine operating margin	\$'000	15,727	10,206	40,978	23,399
General and administrative expense	\$'000	5,491	6,166	19,101	14,184
(Gain)/loss on fair value of financial instruments, net	\$'000	(4,793)	629	(1,344)	(3,512)
Income tax expense	\$'000	5,244	4,151	17,724	10,825
Net income/(loss) attributable to Golden Star shareholders	\$'000	5,960	(3,178)	(5,000)	(8,805)
Adjusted net income attributable to Golden Star shareholders ¹	\$'000	6,961	3,011	17,227	3,295
Income/(loss) per share attributable to Golden Star shareholders - basic	\$/share	0.05	(0.04)	(0.05)	(0.12)
Income/(loss) per share attributable to Golden Star shareholders - diluted	\$/share	0.02	(0.04)	(0.05)	(0.12)
Adjusted income per share attributable to Golden Star shareholders - basic1	\$/share	0.06	0.04	0.16	0.04
Cash provided by operations	\$'000	8,137	10,771	9,730	17,121
Cash provided by operations before working capital changes ²	\$'000	11,898	7,947	27,397	19,033
Cash provided by operations per share - basic	\$/share	0.07	0.14	0.09	0.22
Cash provided by operations before working capital changes per share - basic ²	\$/share	0.11	0.10	0.25	0.25
Capital expenditures	\$'000	16,950	9,784	47,085	31,554

¹See "Non-GAAP Financial Measures" section for a reconciliation of adjusted net income attributable to Golden Star shareholders and adjusted income per share attributable to Golden Star shareholders.

² See "Non-GAAP Financial Measures" section for an explanation of the calculation of cash provided by operations before working capital changes and cash provided by operations before working capital changes per share - basic.

³ Per share data has been re-stated to reflect the share consolidation that was implemented on October 30, 2018.

- Gold revenue totaled \$69.5 million in the third quarter of 2019, compared to \$67.7 million in the same period in 2018. Gold revenue for the third quarter of 2019 was \$1.8 million or 3% higher than the same period in 2018, due to a 22% increase in the consolidated average realized gold price, offset by a 16% decrease in gold sold. Gold revenue generated from Prestea decreased 7% mainly due to a 41% decrease in ounces produced from Prestea Underground as a result of lower than planned grade due to a combination of excessive dilution and ore loss, offset by a 23% increase in average realized gold price. Gold revenue generated from Wassa increased by 7% due to a 21% increase in average realized gold price, offset by a 12% decrease in gold sold as a result of a 23% decrease in grade as compared to prior year. For the nine months ended September 30, 2019, gold revenue was \$198.7 million, a 8% decrease compared to \$215.7 million in the same period in 2018 due to a decrease in gold revenue at Prestea, offset by an increase at Wassa primarily a result of increased gold production from Wassa Underground.
- Gold sales totaled 48,538 ounces in the third quarter of 2019, compared to 57,659 ounces sold in the same period in 2018. Gold sales in the third quarter of 2019 decreased 16% from the same period in 2018 as a result of a decrease in gold sales from both Prestea and Wassa. Prestea gold sales of 14,663 ounces in the third quarter of 2019 were 24% lower than the same period in 2018 due primarily to the lower than planned grade at Prestea Underground due to a combination of excessive dilution and ore loss. Production rates at Prestea Underground continue to be lower than expected and have not been able to offset the lower production at the Prestea Open Pits as planned. Wassa gold sales of 33,875 ounces in the third quarter of 2019 were 12% lower than the same period in 2018 due to a decrease in production at Prestea as a result of a 23% decrease in underground grade processed. For the nine months ended September 30, 2019, gold sales of 150,776 ounces were 15% lower than the 176,578 ounces sold in the same period in 2018 due to a decrease in production at Prestea as a result of the planned reduction from the Prestea Open Pits and lower than planned head grade at Prestea Underground due to a combination of excessive dilution and ore loss. This was offset by a slight increase in production at Wassa which was primarily due to an increase in Wassa Underground tonnes mined and processed.
- Cost of sales excluding depreciation and amortization in the third quarter of 2019 totaled \$46.8 million compared to \$48.9 million in the same period in 2018. Cost of sales excluding depreciation and amortization in the third quarter of 2019 decreased 4% compared to the same period in 2018 due mainly to a \$1.2 million decrease in operating costs to metals inventory

expense, as Wassa drew down less on ore stockpiles during the period. Mine operating expenses decreased \$0.7 million mainly due to reduced production from the Prestea Open Pits, offset partially by higher costs associated with increased mining rates at Wassa Underground. Inventory net realizable value adjustments and write-offs decreased \$0.4 million primarily as a result of the materials and supplies inventories written off at Wassa in the prior period related to open pit mining. Royalty expense increased \$0.2 million due to higher gold revenue in the period as a result of a higher average realized gold price. For the nine months ended September 30, 2019, cost of sales excluding depreciation and amortization was \$137.1 million, a 17% decrease compared to \$166.2 million in the same period in 2018. The decrease is mainly due to a decrease in mine operating costs at Prestea as production decreased compared to the same period in 2018 and a decrease at Wassa due to the suspension of the Wassa surface mining operation in the prior year.

- Consolidated cost of sales per ounce was \$1,108 in the third quarter of 2019, 11% higher than \$998 in the same period in 2018. Consolidated cash operating cost per ounce was \$888 in the third quarter of 2019, 14% higher than \$780 in the same period in 2018. Cash operating cost per ounce at Wassa increased 19% in the third quarter of 2019 as gold sold was lower compared to the same period in 2018 and mine operating expense increased due to an increase in total tonnes mined, as Wassa Underground has steadily increased its mining rates. Cash operating cost per ounce at Prestea increased 13% due mainly to a decrease in gold sold during the period, offset partially by a decrease in mine operating expenses. Production rates at Prestea Underground continue to be lower than expected and have not been able to offset the lower production at the Prestea Open Pits as planned. Cash operating cost per ounce at Prestea has improved in the third quarter of 2019, and decreased 24% compared to the first quarter of 2019. For the nine months ended September 30, 2019, consolidated cash operating cost per ounce of \$832 remained consistent compared to \$831 per ounce in the same period in 2018.
- Depreciation and amortization expense totaled \$7.0 million in the third quarter of 2019 compared to \$8.7 million in the same period in 2018. For the nine months ended September 30, 2019, depreciation and amortization expense was \$20.6 million, a 21% decrease compared to \$26.1 million in the same period in 2018. The decrease in depreciation and amortization expense for the three and nine months ended September 30, 2019 was due to decrease at both Wassa and Prestea. Wassa depreciation decreased mainly due to an increase in the total recoverable gold ounces over the life of mine of Wassa Underground, while Prestea depreciation decreased due to a decrease in gold production.
- General and administrative expense totaled \$5.5 million in the third quarter of 2019, compared to \$6.2 million in the same period in 2018. The decrease in general and administrative expense for the third quarter of 2019 was due primarily to a decrease in share-based compensation expense compared to the same period in 2018. Share-based compensation expense decreased in the period as the final Performance Share Units ("PSU") vested in December 2018, therefore the Company did not recognize a PSU expense in the current period. General and administrative expense, excluding share-based compensation and termination costs related to the change in senior management in 2019, totaled \$4.6 million compared to \$4.0 million in the same period in 2018. For the nine months ended September 30, 2019, general and administrative expense totaled \$19.1 million compared to \$14.2 million in the same period in 2018. The increase relates primarily to the \$4.0 million termination costs related to the change in senior management in 2018. The same period in 2018. The increase relates primarily to the \$4.0 million termination costs related to the change in senior management in 2018. The increase relates primarily to the same period in 2018.
- Finance expense totaled \$3.9 million in the third quarter of 2019, compared to \$4.1 million in the same period in 2018. The decrease in finance expense for the third quarter of 2019 was due primarily to a \$0.3 million decrease in Ecobank loan interest. For the three months ended September 30, 2019 a total of \$2.6 million in interest payments were made, compared to \$2.9 million in the same period in 2018. For the nine months ended September 30, 2019, finance expense totaled \$11.1 million compared to \$14.3 million in the same period in 2018. The decrease was mainly due to a \$1.6 million decrease in Royal Gold loan interest and amortization of Royal Gold loan financing fee as the loan was fully paid in the prior year, in addition to a \$0.6 million increase in foreign exchange gain. For the nine months ended September 30, 2019, a total of \$6.4 million in interest payments were made, compared to \$6.8 million in the same period in 2018.
- The Company recorded a gain of \$4.8 million on fair value of financial instruments in the third quarter of 2019 compared to a \$0.6 million loss in the same period in 2018. The \$4.8 million gain consists of \$4.5 million related to a non-cash revaluation gain on the embedded derivative liability of the 7% Convertible Debentures and \$0.3 million related to a non-cash revaluation gain on the non-hedge derivative asset. The \$0.6 million fair value loss recognized in the third quarter of 2018 was related to a non-cash revaluation loss on the embedded derivative liability of the 7% Convertible Debentures. For the nine months ended September 30, 2019, the Company recorded a \$1.3 million gain on fair value of financial instruments, compared to a \$3.5 million gain in the same period in 2018. The \$1.3 million gain consists of \$1.0 million related to a non-cash revaluation gain on the non-hedge derivative asset. The valuation techniques used for these financial instruments are disclosed in the "Financial Instruments" section of this MD&A.



- Income tax expense was \$5.2 million in the third quarter of 2019 compared to \$4.2 million for the same period in 2018. For the nine months ended September 30, 2019, income tax expense was \$17.7 million, compared to \$10.8 million in the same period in 2018. The increase in income tax expense for the three and nine months ended September 30, 2019 compared to the same periods in 2018 relates to the increase in mine operating margin at Wassa.
- Net income attributable to Golden Star shareholders for the third quarter of 2019 totaled \$6.0 million or \$0.05 income per share (basic), compared to a net loss of \$3.2 million or \$0.04 loss per share (basic) in the same period in 2018. The increase in net income and income per share attributable to Golden Star shareholders in the third quarter of 2019 was mainly due to a \$5.5 million increase in mine operating margin, a \$0.7 million decrease in general and administrative expenses, and a \$5.4 million increase in fair value gain on financial instruments. For the nine months ended September 30, 2019, net loss attributable to Golden Star shareholders totaled \$5.0 million or \$0.05 loss per share (basic), compared to a net loss of \$8.8 million or \$0.12 loss per share (basic) in the same period in 2018. The decrease in loss is mainly due to a \$17.6 million increase in mine operating margin, offset by a \$4.9 million increase in general and administration expenses, a \$6.9 million increase in income tax expense, and a \$2.2 million decrease in fair value gain on financial instruments.
- Adjusted net income attributable to Golden Star shareholders (see "Non-GAAP Financial Measures" section) was \$7.0 million in the third quarter of 2019, compared to adjusted net income attributable to Golden Star shareholders of \$3.0 million for the same period in 2018. The increase in adjusted net income attributable to Golden Star shareholders of 2019 compared to the same period in 2018 was primarily due to a \$5.5 million increase in mine operating margin, and a decrease in share-based compensation expense compared to the same period in 2018. For the nine months ended September 30, 2019, the adjusted net income attributable to Golden Star shareholders was \$17.2 million compared to \$3.3 million for the same period in 2018. The increase in adjusted net income attributable to Golden Star shareholders was same period to a \$17.6 million increase in mine operating margin and decrease in general and administrative expenses (excluding share-based compensation).
- Cash provided by operations before working capital changes (see "Non-GAAP Financial Measures" section) was \$11.9 million for the third quarter of 2019, compared to \$7.9 million in the same period in 2018. The increase in cash provided by operations before working capital changes was due primarily to a \$5.5 million increase in mine operating margin. For the nine months ended September 30, 2019, cash provided by operations before working capital changes was \$27.4 million compared to \$19.0 million in the same period in 2018. The increase was primarily due to a \$17.6 million increase in mine operating margin, partially offset by an increase in consolidated general and administrative expense (excluding share-based compensation).
- Capital expenditures for the third quarter of 2019 totaled \$17.0 million compared to \$9.8 million in the same period in 2018. Capital expenditures at Wassa during the third quarter of 2019 comprised 81% of total capital expenditures and totaled \$13.8 million, which included \$4.2 million on exploration drilling, \$3.0 million on Wassa Underground capitalized development, \$2.0 million on mobile equipment, \$0.3 million on the construction of a ventilation raise, \$0.7 million related to the tailings storage facility, \$1.5 million on the paste-fill plant and the remainder on other equipment and capital expenditures. Capital expenditures at Prestea during the third quarter of 2019 comprised 19% of total capital expenditures and totaled \$3.2 million, which included \$1.7 million on sustaining capital related to Prestea Underground, \$0.2 million on exploration drilling and \$1.4 million on other equipment and capital expenditures.

OUTLOOK FOR 2019

Production and cost guidance

Consolidated gold production for 2019 is expected to be in the range of 190,000 to 205,000 ounces. Consolidated cash operating cost per ounce is expected to be in the range of \$800 to \$850 for 2019. Consolidated all-in sustaining cost per ounce is expected to be in the range of \$1,100 to \$1,200 for 2019.

Production and cost guidance for 2019:

	Gold production	Cash operating costs	All-in sustaining costs
	thousands of ounces	\$ per ounce	\$ per ounce
Wassa	150 - 160	600 - 650	880 - 940
Prestea	40 - 45	1,450 - 1,650	1,900 - 2,150
Consolidated	190 - 205	800 - 850	1,100 - 1,200

Capital expenditure guidance

Capital expenditure guidance for 2019:

	Sustaining	Development	Total
	\$ millions	\$ millions	\$ millions
Wassa	20.7	18.1	38.8
Prestea	9.5	—	9.5
Exploration	—	13.4	13.4
Consolidated	30.2	31.5	61.7

CORPORATE DEVELOPMENTS

Gold prices

Spot gold prices were \$1,485 per ounce at September 30, 2019, up from \$1,282 per ounce at December 31, 2018. The Company realized an average gold price of \$1,432 per ounce for gold sales during the third quarter of 2019, compared to an average realized gold price of \$1,175 per ounce for the same period in 2018. The spot gold price on October 30, 2019 was \$1,487 per ounce.

Revenue from spot sales during the third quarter of 2019 resulted in an average realized gold price of \$1,483 per ounce whereas revenue recognized from the gold purchase and sale agreement (the "Streaming Agreement") with RGLD Gold AG, a wholly-owned subsidiary of Royal Gold Inc., resulted in an average realized gold price of \$909 per ounce.

	Three Months Ended September 30, 2019					
	 Rea \$'000 Ounces			Realized price per ounce		
Revenue - Stream arrangement						
Cash proceeds	\$ 1,273					
Deferred revenue recognized	2,645					
	\$ 3,918	4,309	\$	909		
Revenue - Spot sales	65,586	44,229		1,483		
Total	 69,504	48,538	\$	1,432		

Relocation of Corporate Office and Changes to Executive Team

On October 22, 2019, the Company announced that it plans to close its Toronto office by April 30, 2020 and that its executive team will be located in London, England. André van Niekerk, Executive Vice President and Chief Financial Officer, has decided not to accept the offer to move to London and expects to leave the Company by April 30, 2020.

In addition to the above changes, two other appointments have been made to the executive team. Nathalie Lion Haddad has recently joined as Executive Vice President, Head of People. Nathalie was previously with Sherritt International Corporation where she was Vice President, Human Resources. Secondly, effective November 1, 2019, Peter Spora will be joining as Executive Vice President, Growth & Exploration. Peter is currently in the role of Head of Discovery at La Mancha and was previously Head of Discovery at Acacia Mining plc.

\$60 Million Secured Credit Facility

On October 17, 2019, the Company reported that it closed the \$60 million senior secured credit facility with Macquarie Bank Limited (the "Credit Facility") previously announced on July 31, 2019.

Golden Star has used the proceeds to repay the Ecobank Loan III, Ecobank Loan IV, and the long-term payable under the Vendor Agreement with Volta River Authority. The remaining balance is available for general corporate purposes.

The Credit Facility is repayable as to \$5 million quarterly, commencing on June 30, 2020. The final maturity date is March 31, 2023. The interest rate is 4.5% plus the applicable USD LIBOR rate. The Credit Facility is subject to normal course financial covenants including a Debt Service Coverage Ratio of greater than 1.20:1 and a Net Debt to EBITDA ratio of less than 3.00:1.

Consent to La Mancha to Acquire Additional Shares

On September 10, 2019, the Company announced that La Mancha Holding S.àr.l. ("La Mancha") had requested its consent to La Mancha acquiring up to an additional 5% of the issued and outstanding common shares of the Company through ordinary market or block trade purchases.

The Investor Rights Agreement entered into between Golden Star and La Mancha on August 1, 2018 in connection with La Mancha's equity investment of US\$125.7 million to acquire a 30% stake in Golden Star, restricted La Mancha from acquiring any additional common shares beyond 30% until October 2020 without the prior consent of Golden Star. The Company consented to La Mancha acquiring up to an additional 5% of its issued and outstanding common shares.

Ani Markova Appointed to Board of Directors

On September 5, 2019, the Company announced that Ms. Ani Markova, MBA, CFA, CDI.D had been appointed to the Board of Directors. Ms. Markova replaced Graham Crew as a nominee of La Mancha on the Board of Directors following Mr. Crew's appointment as Chief Operating Officer of Golden Star.

Gold Hedging Program

On August 8, 2019, the Company reported that the Company had established a discretionary gold price protection program (the "Hedging Program") to provide gold price protection for the projected production from the Prestea Mine over the next 12 months as the results of the ongoing operational review that has been implemented at the operation.

Zero cost collars, with a \$1,400/oz floor and a \$1,750/oz ceiling, have been put into place for 50,000 ounces of gold over a 12-month period. The gold hedges, arranged through Macquarie Bank Limited, will mature on a monthly basis at a frequency of approximately 4,167 ounces per month.

In the third quarter of 2019, the Company recognized an unrealized gain of \$0.3 million on the non-hedge accounted collar contracts.

Exploration Update

Wassa

During the third quarter, the surface drilling of the Southern extensions of the Wassa Underground mine continued and were completed mid-September. A total of 22 holes were completed in the third quarter with 12,636 metres being drilled. The 2019 drilling programs at Wassa resulted in an additional 59 holes for approximately 45,000 metres. With this year's surface drilling program at Wassa now completed, the Company's geologists and consultants have commenced the geological interpretations. The new geological interpretations will be used for mineral resource estimations that will be updated for year-end resource and reserve statements. The drilling to date at Wassa has three goals, conversion of inferred resources to indicated resources, definition and expansion of current inferred resources. Results have been successful in converting portions of the inferred resources to indicated resources as well as better defining mineralization at depth and within the hanging and footwall of the main B Shoot mineralization. Deeper drilling into the wide zones of mineralization at depth has shown that instead of a single high grade mineralized zone there are now four sub parallel zones. This new understanding will be incorporated into the next resource grade estimation.

Father Brown

Drilling was completed on the Father Brown project in the second quarter of 2019, totaling 28 holes for 14,500 metres. The drill results have been used to update a conceptual resource model which in turn is currently being utilized by consultants to evaluate the potential economics of the project. Should the economics of the concept study demonstrate positive economics, further work on the project would be justified, however further drilling would be required before the project can progress. The results of the concept study are scheduled to be completed in the fourth quarter of 2019.

Prestea Underground

During the third quarter, 8 additional holes were drilled totaling 1,486 metres. Most of this drilling was infill drilling to the North of the existing stopes on 24 level. Upon completion of this drilling a new resource block model has been created and this will be the basis for a new mine plan which is currently being developed with the assistance of a consultant. The updated resources and reserves will be disclosed in the year-end Mineral Resource and Reserve statements.

Independent Operational Review of Prestea

CSA Global were selected to undertake an independent review of the underground operations at Prestea. The initial findings of this review indicated sufficient confidence in the mineral resource, infrastructure and available skills for Prestea to be a sustainable and profitable gold mine in the medium to long term. Following the initial review, Phase 2 was initiated to assess how to incorporate some of the key recommendations into the life of mine, such as introducing a complementary mining method to the Alimak stoping and reducing the height of the Alimak stopes to improve dilution and increase infill drilling. To begin the process of estimating the capital cost and time frame required to implement these changes, CSA and the Prestea site team have designed a conceptual



mine plan (scoping level) including the recommendations above. The conceptual mine plan confirms that Prestea is expected to be a sustainably profitable mine with a combination of the Alimak mining method and sub-level open stoping method, and ore/waste handling system underground and at surface. The Company is now refining this high level mine plan and expects an updated life of mine plan in early 2020.

After the initial stage of CSA's review, Project Okode (Eagle) was established involving the site management and technical and operations personnel to fully plan, prioritize and implement CSA recommended short term operational improvements and site initiatives with a focus on mining and maintenance. A number of low cost initiatives identified in the review have progressed to the planning and implementation stages, including tighter spaced definition drilling, equipment selection for Alimak set up, critical spares analysis, consumables monitoring and reduction, improved communication and planning (for maintenance, mining and interdepartmental), and optimized shaft and personnel scheduling. Overall, the objectives of Project Okode are to improve equipment availability, reduce Alimak cycle time, increase labour utilisation and reduce operating costs.

WASSA OPERATIONS

Through a 90% owned subsidiary, Golden Star (Wassa) Limited, the Company owns and operates the Wassa Complex. Wassa is located in the southwestern region of Ghana, approximately 35 kilometers northeast of the town of Tarkwa. In 2018, Golden Star operated the Wassa Main Pit (an open pit operation) and Wassa Underground (an underground operation). As of February 1, 2018, Wassa became an underground-only operation. Wassa has a non-refractory processing plant (the "Wassa processing plant") consisting of a carbon-in-leach ("CIL") system with a capacity of 2.7 million tonnes per annum. In the first half of 2018, ore from both the Wassa Main Pit and Wassa Underground was processed at the Wassa processing plant, while in the first half of 2019 ore from Wassa Underground and stockpiles was processed at the Wassa processing plant.

		Three Months Ended September 30,		Nine Month Septemb	
		2019	2018	2019	2018
ASSA FINANCIAL RESULTS					
Revenue	\$'000	48,384	45,029	150,269	138,9
Mine operating expenses	\$'000	25,040	21,694	72,540	64,8
Severance charges	\$'000	—	—	225	4,9
Royalties	\$'000	2,579	2,309	7,817	7,
Operating costs (to)/from metals inventory	\$'000	(246)	1,770	713	6,
Inventory net realizable value adjustment and write-off	\$'000	—	232	—	3,
Cost of sales excluding depreciation and amortization	\$'000	27,373	26,005	81,295	86,
Depreciation and amortization	\$'000	3,879	5,284	12,477	16,
Mine operating margin	\$'000	17,132	13,740	56,497	35,
Capital expenditures	\$'000	13,768	7,033	38,456	21,
ASSA OPERATING RESULTS					
Ore mined - Main Pit	t	_	_	_	54,
Ore mined - Underground	t	406,922	313,369	1,045,784	765,
Ore mined - Total	t	406,922	313,369	1,045,784	819,
Waste mined - Main Pit	t	—	_	_	72,
Waste mined - Underground	t	106,700	73,327	241,143	219,
Waste mined - Total	t	106,700	73,327	241,143	292,
Ore processed - Main Pit/Stockpiles	t	27,470	77,386	120,299	433,
Ore processed - Underground	t	399,910	316,907	1,038,772	765,
Ore processed - Total	t	427,380	394,293	1,159,071	1,199,
Grade processed - Main Pit/Stockpiles	g/t	0.64	0.65	0.64	(
Grade processed - Underground	g/t	2.84	3.69	3.50	4
Recovery	%	95.4	95.8	95.6	Ģ
Gold produced - Main Pit/Stockpiles	OZ	514	1,580	2,512	10,
Gold produced - Underground	OZ	34,051	36,517	112,319	101,
Gold produced - Total	oz —	34,565	38,097	114,831	112,
Gold sold - Main Pit/Stockpiles	OZ	56	1,778	2,512	10,
Gold sold - Underground	OZ	33,819	36,517	112,087	101,
Gold sold - Total	OZ	33,875	38,295	114,599	112,
Cost of sales per ounce ¹	\$/oz	923	817	818	1
Cash operating cost per ounce ¹	\$/oz	732	613	639	
All-in sustaining cost per ounce ¹	\$/oz	1,061	805	909	

¹ See "Non-GAAP Financial Measures" section for a reconciliation of cost of sales per ounce, cash operating cost per ounce and all-in sustaining cost per ounce to cost of sales excluding depreciation and amortization.

For the three months ended September 30, 2019 compared to the three months ended September 30, 2018

Production

Gold production from Wassa was 34,565 ounces for the third quarter of 2019, a 9% decrease from the 38,097 ounces produced during the same period in 2018. This decrease in production was primarily due to a decrease in grade and recovery compared to the same period in 2018.

Wassa Underground

Wassa Underground produced 34,051 ounces of gold (or approximately 99% of Wassa's total production) in the third quarter of 2019, compared to 36,517 ounces in the same period in 2018 (or approximately 96% of Wassa's total production). This 7% decrease in production was as a result of a 23% decrease in grade due to limited flexibility with the mine plan, offset by a 30% increase in ore tonnes mined and 26% increase in ore tonnes processed, resulting from productivity improvements. Mining rates at Wassa Underground increased to approximately 4,420 tpd on average in the third quarter of 2019 compared to approximately 3,410 tpd in the same period in 2018. Underground ore processed increased 26% to 399,910 tonnes in the third quarter of 2019 compared to 316,907 tonnes in the same period in 2018.

Wassa Main Pit/Stockpiles

Wassa Main Pit produced 514 ounces in the third quarter of 2019, compared to 1,580 ounces in the same period in 2018. This decrease in production is a result of a 65% decrease in stockpile ore tonnes processed as well as a 2% decrease in stockpile ore grade processed compared to the same period in 2018.

Gold revenue

Gold revenue for the third quarter of 2019 was \$48.4 million, an increase of 7% from \$45.0 million in the same period in 2018 due to a 21% increase in average realized gold price, offset by a decrease in gold sold. The average realized gold price was \$1,428 per ounce for the third quarter of 2019 compared to \$1,176 per ounce in the same period in 2018. Gold sold decreased 12% to 33,875 ounces for the third quarter of 2019, compared to 38,295 ounces in the same period in 2018. The decrease was primarily due to a decrease in grade and recovery compared to the same period in 2018.

Cost of sales excluding depreciation and amortization

Cost of sales excluding depreciation and amortization was \$27.4 million for the third quarter of 2019, compared to \$26.0 million for the same period in 2018. The increase was due primarily to a \$3.3 million increase in mine operating expenses, resulting from an increase in total tonnes mined, as Wassa Underground has steadily increased its mining rates, and a \$0.3 million increase in royalty expense due to higher gold revenue. Partially offsetting these increases was a \$2.0 million decrease in operating costs from metals inventory, and a \$0.2 million decrease in inventory net realizable value adjustment and write-off as materials and supplies inventories related to open pit mining were written off in the same period in 2018.

Depreciation and amortization

Depreciation and amortization expense decreased to \$3.9 million for the third quarter of 2019, compared to \$5.3 million for the same period in 2018 due mainly to an increase in the total recoverable gold ounces over the life of mine of Wassa Underground.

Costs per ounce

Cost of sales per ounce increased 13% to \$923 for the third quarter of 2019 from \$817 in the same period in 2018. Cash operating cost per ounce increased 19% to \$732 from \$613 for the same period in 2018. The higher cash operating costs per ounce in the third quarter of 2019 compared to the same period in 2018 were primarily a result of a decrease in gold sold and an increase in mine operating expenses. All-in sustaining cost per ounce increased 32% to \$1,061 from \$805 for the same period in 2018 mainly due to an increase in sustaining capital expenditures.

Capital expenditures

Capital expenditures for the third quarter of 2019 totaled \$13.8 million compared with \$7.0 million incurred during the same period in 2018. The increase in capital expenditures was due primarily to an increase of \$2.8 million in exploration drilling, a \$0.3 million increase related to the construction of a ventilation raise, a \$0.7 million increase related to the tailing storage facility and a \$1.5 million increase related to the paste-fill plant. Offsetting these increases was a \$0.1 million decrease in capitalized development related to a decrease in development meters compared to the same period in 2018.

For the nine months ended September 30, 2019 compared to the nine months ended September 30, 2018

Production

Gold production from Wassa was 114,831 ounces for the nine months ended September 30, 2019, a 2% increase from the 112,135 ounces produced in 2018. This increase in production was due to the Wassa Underground mine as tonnes mined and processed increased compared to the same period in 2018. As of February 1, 2018, Wassa became an underground-only mining operation, however, open pit stock piled ore continued to be processed throughout the year.

Wassa Underground

Wassa Underground produced 112,319 ounces of gold (or approximately 98% of Wassa's total production) for the nine months ended September 30, 2019, compared to 101,550 ounces in 2018 (or approximately 91% of Wassa's total production). This 11% increase in production was related to increased tonnes mined and processed, resulting from productivity improvements. This was partially offset by a 19% decrease in grade due to limited flexibility with the mine plan. Mining rates at Wassa Underground increased to approximately 3,830 tpd on average for the nine months ended September 30, 2019, compared to approximately 2,800 tpd in the same period in 2018. Ore processed increased 36% for the nine months ended September 30, 2019 to 1,038,772 tonnes compared to 765,714 tonnes in the same period in 2018.

Wassa Main Pit/Stockpiles

Wassa Main Pit produced 2,512 ounces for the nine months ended September 30, 2019, compared to 10,585 in the same period in 2018. This decrease in production is a result of a 72% decrease in stockpile ore tonnes processed and a 20% decrease in stockpile ore grade processed compared to the same period in 2018.

Gold revenue

Gold revenue for the nine months ended September 30, 2019 was \$150.3 million, an increase of 8% from \$139.0 million in 2018 due mainly to an increase in gold sold and average realized price. Gold sold increased 2% to 114,599 ounces for the nine months ended September 30, 2019 compared to 112,397 ounces in 2018. The increase was primarily a result of increased gold production from Wassa Underground. The average realized gold price was \$1,311 per ounce for the nine months ended September 30, 2019 compared to \$1,236 per ounce in 2018.

Cost of sales excluding depreciation and amortization

Cost of sales excluding depreciation and amortization was \$81.3 million for the nine months ended September 30, 2019 compared to \$86.8 million in 2018. The decrease was due primarily to a \$4.7 million decrease in severance charges as suspension of the Wassa surface mining operation was completed in early 2018, a \$3.3 million decrease in inventory net realizable value adjustment and write-off as materials and supplies inventories related to open pit mining were written off in the same period in 2018, and a \$5.7 million decrease in operating costs from metals inventory due to a reduction in drawdown of ore stockpiles compared to the same period in 2018. Partially offsetting these decreases were a \$7.7 million increase in mine operating expenses, resulting from an increase in total tonnes mined, as Wassa Underground has steadily increased its mining rates and a \$0.6 million increase in royalty expense due to higher gold revenue.

Depreciation and amortization

Depreciation and amortization expense decreased to \$12.5 million for the nine months ended September 30, 2019 compared to \$16.5 million in 2018 due mainly to an increase in the total recoverable gold ounces over the life of mine of Wassa Underground.

Costs per ounce

Cost of sales per ounce decreased 11% to \$818 for the nine months ended September 30, 2019 compared to \$919 in 2018. Cash operating cost per ounce increased 1% to \$639 for the nine months ended September 30, 2019 from \$634 in 2018. All-in sustaining cost per ounce increased 3% to \$909 for the nine months ended September 30, 2019 from \$634 in 2018.

Capital expenditures

Capital expenditures for the nine months ended September 30, 2019 totaled \$38.5 million compared to \$21.5 million during the same period in 2018. The increase in capital expenditures is due primarily to an increase of \$12.3 million in exploration drilling, a \$1.9 million increase related to the construction of a ventilation raise and a \$2.3 million increase related to the tailing storage facility. Offsetting these increases was a \$1.8 million decrease in capitalized development related to a decrease in development meters compared to the same period in 2018.



PRESTEA OPERATIONS

Through a 90% owned subsidiary, Golden Star (Bogoso/Prestea) Limited, the Company owns and operates the Prestea Complex located near the town of Prestea, Ghana. The Prestea complex consists of Prestea Underground (an underground operation), the Prestea Open Pits (neighboring open pits formed from oxide deposits) and associated support facilities. Prestea has a CIL processing facility with capacity of up to 1.5 million tonnes per annum, located 14 km away at Bogoso, which is suitable for treating non-refractory gold ore (the "non-refractory plant"). Ore from both Prestea Underground and the Prestea Open Pits is processed in the non-refractory plant. Prestea Underground achieved commercial production on February 1, 2018.

		Three Month Septembe		Nine Month Septembe	
		2019	2018	2019	2018
ESTEA FINANCIAL RESULTS					
Revenue	\$'000	21,120	22,709	48,407	76,7
Mine operating expenses	\$'000	17,709	21,706	52,878	68,1
Severance charges	\$'000	13	6	112	
Royalties	\$'000	1,096	1,154	2,497	4,1
Operating costs from/(to) metals inventory	\$'000	607	(211)	(725)	5,7
Inventory net realizable value adjustment and write-off	\$'000	—	213	1,051	1,4
Cost of sales excluding depreciation and amortization	\$'000	19,425	22,868	55,813	79,4
Depreciation and amortization	\$'000	3,100	3,375	8,113	9,6
Mine operating loss	\$'000	(1,405)	(3,534)	(15,519)	(12,
Capital expenditures	\$'000	3,182	2,751	8,629	10,0
ESTEA OPERATING RESULTS					
Ore mined - Open pits	t	178,498	67,238	381,505	341,4
Ore mined - Underground	t	42,071	34,575	117,904	98,
Ore mined - Total	t –	220,569	101,813	499,409	439,
Waste mined - Open pits	t	288,701	182,103	542,338	834,4
Waste mined - Underground	t	5,113	2,184	8,335	4,3
Waste mined - Total	t	293,814	184,287	550,673	838,
Ore processed - Open pits	t	179,343	307,482	449,715	994,4
Ore processed - Underground	t	42,071	34,575	117,904	98,
Ore processed - Total	t –	221,414	342,057	567,619	1,092,
Grade processed - Open pits	g/t	1.62	1.12	1.60	1
Grade processed - Underground	g/t	5.00	10.39	5.21	10
Recovery	%	86.9	84.0	85.6	8
Gold produced - Open pits	OZ	8,415	8,148	18,641	32,9
Gold produced - Underground	OZ	6,412	10,868	17,626	30,8
Gold produced - Total	OZ –	14,827	19,016	36,267	63,
Gold sold - Open pits	OZ	8,251	8,496	18,551	33,
Gold sold - Underground	OZ	6,412	10,868	17,626	30,8
Gold sold - Total	OZ	14,663	19,364	36,177	64,
Cost of sales per ounce ¹	\$/oz	1,536	1,355	1,767	1,4
Cash operating cost per ounce ¹	\$/oz	1,249	1,110	1,442	1,
All-in sustaining cost per ounce ¹	\$/oz	1,630	1,367	1,852	1,4

¹ See "Non-GAAP Financial Measures" section for a reconciliation of cost of sales per ounce, cash operating cost per ounce and all-in sustaining cost per ounce to cost of sales excluding depreciation and amortization.

For the three months ended September 30, 2019 compared to the three months ended September 30, 2018

Production

Gold production from Prestea was 14,827 ounces in the third quarter of 2019, a 22% decrease from the 19,016 ounces produced during the same period in 2018. This decrease in production was due primarily to lower than planned head grade at Prestea Underground due to a combination of excessive dilution and ore loss.

Prestea Open Pits

The Prestea Open Pits produced 8,415 ounces in the third quarter of 2019, compared to 8,148 ounces in the same period in 2018. The Prestea Open Pits was expected to complete gold production in 2019, however mining has continued into the third quarter of 2019 with additional ore being sourced from the pits close to Bogoso.

Prestea Underground

Prestea Underground produced 6,412 ounces in the third quarter of 2019 compared to 10,868 ounces in the same period in 2018. Production decreased 41% in the third quarter of 2019 compared to the same period in 2018, as a result of a 52% decrease in ore grade processed, offset partially by a 22% increase in ore tonnes processed. Production during the quarter was affected by available stopes still impacted by stope failures and waste zones as reported in the second quarter. Production was delayed by secondary break activities and additional waste haulage (as a result of stope failures and waste zones). Stopes in production during the quarter were also modeled to be lower grade than the same period in 2018 as stoping has progressed to the South. Development work was prioritized on 17 and 24 levels to open up new stoping areas and new stopes on 24 level. In-fill drilling 25 metre spaced was completed in the current mining blocks during the quarter and Quality Assurance and Quality Control ("QAQC") of production drilling accuracy was implemented.

Gold revenue

Gold revenue for the third quarter of 2019 was \$21.1 million, a decrease of 7% from \$22.7 million in the same period of 2018 due mainly to a decrease in gold sales offset by an increase in average realized price. Gold sold decreased 24% to 14,663 ounces for the third quarter of 2019, compared to 19,364 ounces in the same period of 2018, primarily as a result of a decrease in gold production from Prestea Underground. The average realized gold price increased 23% to \$1,440 per ounce for the third quarter of 2019 compared to \$1,173 per ounce for the same period in 2018.

Cost of sales excluding depreciation and amortization

Cost of sales excluding depreciation and amortization was \$19.4 million for the third quarter of 2019, compared to \$22.9 million for the same period in 2018. The decrease was due primarily to a \$4.0 million decrease in mine operating expenses related to less ore processed from Prestea Open Pits, and a \$0.2 million decrease inventory net realizable value adjustment and write-off, offset by a \$0.8 million increase in operating costs from metals inventory.

Depreciation and amortization

Depreciation and amortization expense decreased to \$3.1 million for the third quarter of 2019, compared to \$3.4 million for the same period in 2018 due mainly to a decrease in gold production.

Costs per ounce

Cost of sales per ounce increased 13% to \$1,536 for the third quarter of 2019 from \$1,355 in the same period in 2018. Cash operating cost per ounce of \$1,249 increased 13% from \$1,110 for the same period in 2018. All-in sustaining cost per ounce increased 19% to \$1,630 from \$1,367 for the same period in 2018. The increase in costs per ounce were primarily due to lower gold sales in the period, offset partially by lower mine operating expenses and operating costs from metals inventory.

Capital expenditures

Capital expenditures for the third quarter of 2019 totaled \$3.2 million compared to \$2.8 million incurred during the same period in 2018. The increase relates primarily to an increase in plant upgrade costs.

For the nine months ended September 30, 2019 compared to the nine months ended September 30, 2018

Production

Gold production from Prestea was 36,267 ounces for the nine months ended September 30, 2019, a 43% decrease from the 63,803 ounces produced in 2018. This decrease in production was due primarily to the planned reduction from the Prestea Open Pits and the slower than expected ramp up at Prestea Underground.



Prestea Open Pits

The Prestea Open Pits produced 18,641 ounces for the nine months ended September 30, 2019, compared to 32,991 ounces in 2018. This decrease in production was planned, as the Prestea Open Pits were expected to complete gold production in 2018. Mining has continued into the third quarter of 2019 with additional ore being sourced from the pits close to Bogoso.

Prestea Underground

Prestea Underground produced 17,626 ounces for the nine months ended September 30, 2019, compared to 30,812 ounces in 2018. Production decreased 43% compared to the same period in 2018, as a result of a 51% decrease in ore grade processed, offset partially by a 20% increase in ore tonnes processed. Production was affected by lower grade as a result of unplanned waste zones within the stopes and unplanned dilution.

Gold revenue

Gold revenue for the nine months ended September 30, 2019 was \$48.4 million, a decrease of 37% from \$76.7 million in 2018 due to a decrease in gold sold, offset by an increase in average realized gold price. Gold sold decreased 44% to 36,177 ounces for the nine months ended September 30, 2019 compared to 64,181 ounces in 2018, as a result of a decrease in gold production from the Prestea Open Pits and Prestea Underground. The average realized gold price increased 12% to \$1,338 per ounce for the nine months ended September 30, 2019 compared to \$1,195 per ounce in 2018.

Cost of sales excluding depreciation and amortization

Cost of sales excluding depreciation and amortization was \$55.8 million for the nine months ended September 30, 2019, compared to \$79.4 million in 2018. The decrease was due primarily to a \$15.3 million decrease in mine operating expenses related to less production, a \$6.4 million decrease in operating costs to metals inventory, and a \$1.6 million decrease in royalties resulting from lower gold sales.

Depreciation and amortization

Depreciation and amortization expense decreased to \$8.1 million for the nine months ended September 30, 2019, compared to \$9.6 million in 2018 due mainly to a decrease in gold production, offset partially by the commencement of depreciation of Prestea Underground assets as commercial production was achieved on February 1, 2018.

Costs per ounce

Cost of sales per ounce increased 23% to \$1,767 for the nine months ended September 30, 2019, compared to \$1,433 in 2018. Cash operating cost per ounce increased 21% to \$1,442 for the nine months ended September 30, 2019 compared to \$1,188 in 2018. All-in sustaining cost per ounce increased 30% to \$1,852 for the nine months ended September 30, 2019 compared to \$1,424 in 2018. The increase in cost per ounce was primarily due to the decrease in ounces sold for the nine months ended September 30, 2019 compared to 2018.

Capital expenditures

Capital expenditures for the nine months ended September 30, 2019 totaled \$8.6 million, compared to \$10.0 million incurred in 2018. The decrease relates primarily to a \$0.6 million decrease in capitalized borrowing costs relating to Prestea Underground which achieved commercial production on February 1, 2018. In addition, there was a \$0.5 million decrease in capital expenditures related to the Prestea Open Pits and Mampon, as some of these deposits ceased production during 2018, and a \$0.9 million decrease in exploration drilling.

SUMMARIZED QUARTERLY FINANCIAL RESULTS

	Three Months Ended,										
(Stated in thousands of U.S dollars except per share data)	Q3 2019		Q2 2019		Q1 2019	Q4 2018 ²	Q3 2018 ²	Q2 2018 ²	Q1 2018 ²	Q	4 2017 ²
Revenues	\$ 69,504	\$	61,915	\$	67,257	\$ 57,339	\$ 67,738	\$ 77,121	\$ 70,819	\$	81,845
Cost of sales excluding depreciation and amortization	46,798		46,506		43,804	57,565	48,873	57,717	59,574		66,401
Net income/(loss)	4,926		(10,882)		(2,659)	(11,894)	(4,222)	(7,560)	(395)		13,825
Net income/(loss) attributable to shareholders of Golden Star	5,960		(9,036)		(1,924)	(9,318)	(3,178)	(6,642)	1,015		12,601
Adjusted net income/(loss) attributable to Golden Star shareholders1	6,961		872		9,394	(5,211)	3,011	2,408	(2,124)		10,701
Net income/(loss) per share attributable to Golden Star shareholders - basic	0.05		(0.08)		(0.02)	(0.09)	(0.04)	(0.09)	0.01		0.17
Net income/(loss) per share attributable to Golden Star shareholders - diluted	0.02		(0.08)		(0.02)	(0.09)	(0.04)	(0.09)	(0.03)		0.16
Adjusted income/(loss) per share attributable to Golden Star shareholders - basic 1	0.06		0.01		0.09	(0.05)	0.04	0.03	(0.03)		0.14

¹ See "Non-GAAP Financial Measures" section for a reconciliation of adjusted net income attributable to Golden Star shareholders and adjusted income per share attributable to Golden Star shareholders (basic) to net income/(loss) attributable to Golden Star shareholders.

² Per share quarterly financial information has been re-stated to reflect the share consolidation that was implemented on October 30, 2018.

LIQUIDITY AND FINANCIAL CONDITION

The Company held \$56.8 million in cash and cash equivalents as at September 30, 2019 compared to \$96.5 million in cash and cash equivalents at December 31, 2018. During the nine months ended September 30, 2019, operations provided \$9.7 million, investing activities used \$42.3 million and financing activities used \$7.1 million of cash.

Before working capital changes, operations provided \$27.4 million of operating cash flow during the nine months ended September 30, 2019, compared to \$19.0 million in the same period in 2018. Cash provided by operations before working capital changes increased primarily due to an increase in consolidated mine operating margin related to Wassa, as Wassa Underground gold sold increased compared to the same period in 2018.

Working capital used \$17.7 million during the nine months ended September 30, 2019, compared to \$1.9 million in the same period in 2018. The working capital changes included a \$1.7 million decrease in accounts payable and accrued liabilities, a \$6.4 million decrease in other liability as the final amount owing on the PSU liability was paid in April 2019, a \$3.6 million decrease in current income tax liabilities, a \$3.2 million increase in inventory, a \$2.5 million increase in accounts receivable, and a \$0.3 million increase in prepaids and other. Accounts payable and accrued liabilities increased slightly from \$78.5 million at December 31, 2018 to \$80.9 million at September 30, 2019.

Investing activities used \$42.3 million during the nine months ended September 30, 2019, which included \$16.8 million on exploration drilling, \$17.6 million on the development of Wassa Underground, \$6.0 million on the development of Prestea Underground and \$6.6 million on equipment purchases and other. Offsetting these capital expenditures was a \$4.8 million increase in accounts payable and deposits on mine equipment and material.

Financing activities used \$7.1 million during the nine months ended September 30, 2019, compared to \$4.3 million in the same period in 2018. Financing activities was comprised of \$8.3 million in principal repayments of debt, offset by \$1.1 million received on exercise of options.

LIQUIDITY OUTLOOK

As at September 30, 2019, the Company had \$56.8 million in cash and a working capital deficit of \$28.1 million, compared to \$96.5 million in cash and working capital of \$5.9 million at December 31, 2018. The Company expects Prestea to incur losses for the remainder of 2019, however this is expected to be offset by cash flow generated from the Wassa mine.

The Company expects to incur \$14.7 million on capital expenditures during the remainder of 2019 of which \$4.2 million is expected to be development capital and \$10.5 million is expected to be sustaining capital.

Subsequent to the quarter, on October 17, 2019, the Company closed the \$60 million senior secured credit facility with Macquarie Bank Limited (the "Credit Facility") previously announced on July 31, 2019. Golden Star has used the proceeds to repay the Ecobank Loan III, Ecobank Loan IV, and the long-term payable under the Vendor Agreement with Volta River Authority. The

remaining balance is available for general corporate purposes. The Credit Facility is repayable as to \$5 million quarterly, commencing on June 30, 2020. The final maturity date is March 31, 2023. The interest rate is 4.5% plus the applicable USD LIBOR rate.

Based on the Company's cash balance together with the operating cash flow that the Company anticipates generating and the proceeds from the Credit Facility, the Company expects to have sufficient cash available to support its operations and mandatory expenditures for the next twelve months.

TABLE OF CONTRACTUAL OBLIGATIONS

As at September 30, 2019, the Company is committed to the following:

	Payment due by period									
(Stated in thousands of U.S dollars)		Less than 1 Year		1 to 3 years		4 to 5 years		More than 5 Years		Total
Accounts payable and accrued liabilities	\$	80,895	\$		\$	_	\$		\$	80,895
Debt ¹		27,977		69,325		3,903		_		101,205
Interest on long-term debt		6,255		7,010		211				13,476
Current income tax liabilities		2,235								2,235
Purchase obligations		17,318				—				17,318
Rehabilitation provisions ²		9,340		20,999		25,392		14,679		70,410
Total		144,020		97,334		29,506		14,679		285,539

¹Includes the outstanding repayment amounts from the 7% Convertible Debentures maturing on August 15, 2021, Ecobank Loan III, Ecobank Loan IV, finance leases and the Vendor Agreement. Subsequent to the quarter, the Company closed the \$60 million secured credit facility with Macquarie Bank Limited which was used to repay Ecobank Loan III, Ecobank Loan IV and the Vendor Agreement and as a result will affect the timing of debt repayments. Refer to Corporate Developments section above.

² Rehabilitation provisions indicates the expected undiscounted cash flows for each period.

RELATED PARTY TRANSACTIONS

There were no material related party transactions for the three and nine months ended September 30, 2019 and 2018 other than compensation of key management personnel which is presented in Note 18 of the condensed interim consolidated financial statements for the three and nine months ended September 30, 2019 and September 30, 2018. Key management personnel are defined as members of the Board of Directors and certain senior officers. Compensation of key management personnel are made on terms equivalent to those prevailing in an arm's length transaction.

OFF-BALANCE SHEET ARRANGEMENTS

The Company has no material off-balance sheet arrangements.

NON-GAAP FINANCIAL MEASURES

In this MD&A, we use the terms "cash operating cost", "cash operating cost per ounce", "all-in sustaining costs", "all-in sustaining costs per ounce", "adjusted net income attributable to Golden Star shareholders", "adjusted income per share attributable to Golden Star shareholders - basic", "cash provided by operations before working capital changes", and "cash provided by operations before working capital changes per share - basic".

"Cost of sales excluding depreciation and amortization" as found in the statements of operations includes all mine-site operating costs, including the costs of mining, ore processing, maintenance, work-in-process inventory changes, mine-site overhead as well as production taxes, royalties, severance charges and by-product credits, but excludes exploration costs, property holding costs, corporate office general and administrative expenses, foreign currency gains and losses, gains and losses on asset sales, interest expense, gains and losses on derivatives, gains and losses on investments and income tax expense/benefit.

"Cost of sales per ounce" is equal to cost of sales excluding depreciation and amortization for the period plus depreciation and amortization for the period divided by the number of ounces of gold sold (excluding pre-commercial production ounces sold) during the period. "Cash operating cost" for a period is equal to "cost of sales excluding depreciation and amortization" for the period less royalties, the cash component of metals inventory net realizable value adjustments, materials and supplies write-off and severance charges, and "cash operating cost per ounce" is that amount divided by the number of ounces of gold sold (excluding pre-commercial production ounces sold) during the period. We use cash operating cost per ounce as a key operating metric. We monitor this measure monthly, comparing each month's values to prior periods' values to detect trends that may indicate increases or decreases in operating efficiencies. We provide this measure to investors to allow them to also monitor operational efficiencies of the Company's mines. We calculate this measure for both individual operating units and on a consolidated basis. Since cash operating costs do not incorporate revenues, changes in working capital or non-operating cash costs, they are not necessarily indicative of operating profit or cash flow from operations as determined under IFRS. Changes in numerous factors including, but not limited to, mining rates, milling rates, ore grade, gold recovery, costs of labor, consumables and mine site general and administrative activities can cause these measures to increase or decrease. We believe that these measures are similar to the measures of other gold mining companies, but may not be comparable to similarly titled measures in every instance.

"All-in sustaining costs" commences with cash operating costs and then adds the cash component of metals inventory net realizable value adjustments, royalties, sustaining capital expenditures, corporate general and administrative costs (excluding share-based compensation expenses and severance), and accretion of rehabilitation provision. For mine site all-in sustaining costs, corporate general and administrative costs (excluding share-based compensation expenses and severance) are allocated based on gold sold by each operation. "All-in sustaining costs per ounce" is that amount divided by the number of ounces of gold sold (excluding pre-commercial production ounces sold) during the period. This measure seeks to represent the total costs of producing gold from current operations, and therefore it does not include capital expenditures attributable to projects or mine expansions, exploration and evaluation costs attributable to growth projects, income tax payments, interest costs or dividend payments. Consequently, this measure is not representative of all of the Company's cash expenditures. In addition, the calculation of all-in sustaining costs does not include depreciation expenses as it does not reflect the impact of expenditures incurred in prior periods. Therefore, it is not indicative of the Company's overall profitability. Share-based compensation expenses are also excluded from the calculation of all-in sustaining costs as the Company believes that such expenses may not be representative of the actual payout on equity and liability-based awards.

The Company believes that "all-in sustaining costs" will better meet the needs of analysts, investors and other stakeholders of the Company in understanding the costs associated with producing gold, understanding the economics of gold mining, assessing the operating performance and the Company's ability to generate free cash flow from current operations and to generate free cash flow on an overall Company basis. Due to the capital intensive nature of the industry and the long useful lives over which these items are depreciated, there can be a disconnect between net earnings calculated in accordance with IFRS and the amount of free cash flow that is being generate by a mine. In the current market environment for gold mining equities, many investors and analysts are more focused on the ability of gold mining companies to generate free cash flow from current operations, and consequently the Company believes these measures are useful non-IFRS operating metrics ("non-GAAP measures") and supplement the IFRS disclosures made by the Company. These measures are not representative of all of Golden Star's cash expenditures as they do not include income tax payments or interest costs. Non-GAAP measures are intended to provide additional information only and do not have standardized definitions under IFRS and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. These measures are not necessarily indicative of operating profit or cash flow from operations as determined under IFRS. The table below reconciles these non-GAAP measures to the most directly comparable IFRS measures and, where applicable, previous periods have been recalculated to conform to the current definition.

The table below reconciles consolidated cost of sales excluding depreciation and amortization to cost of sales per ounce, cash operating cost per ounce and all-in sustaining cost per ounce:

		Three Months Ended September 30,				Nine Months Ended September 30,				
(Stated in thousands of U.S dollars except cost per ounce data)		2019		2018		2019		2018		
Cost of sales excluding depreciation and amortization		46,798		48,873		137,108		166,164		
Depreciation and amortization		6,979		8,659		20,590		26,115		
Cost of sales		53,777		57,532		157,698		192,279		
Cost of sales excluding depreciation and amortization		46,798		48,873		137,108		166,164		
Severance charges		(13)		(6)		(337)		(4,976)		
Royalties		(3,675)		(3,463)		(10,314)		(11,293)		
Inventory net realizable value adjustment and write-off		—		(445)		(1,051)		(4,785)		
Cash operating costs		43,110		44,959		125,406		145,110		
Royalties		3,675		3,463		10,314		11,293		
Inventory net realizable value adjustment and write-off				445		1,051		4,785		
Accretion of rehabilitation provision		181		173		546		518		
General and administrative costs, excluding share-based compensation and severance1		4,554		4,002		12,439		11,438		
Sustaining capital expenditures		8,330		4,271		21,423		14,762		
All-in sustaining costs	_	59,850		57,313		171,179		187,906		
Ounces sold ²		48,538		57,659		150,776		174,529		
Cost of sales per ounce	\$	1,108	\$	998	\$	1,046	\$	1,102		
Cash operating cost per ounce	\$	888	\$	780	\$	832	\$	831		
All-in sustaining cost per ounce	\$	1,233	\$	994	\$	1,135	\$	1,077		

¹Severance charges are termination costs related to the change in senior management in 2019.

² Ounces sold used in the calculation of cost of sales per ounce, cash operating cost per ounce and all-in sustaining cost per ounce excludes 2,049 pre-commercial production ounces sold at Prestea Underground in January 2018.

The tables below reconcile cost of sales excluding depreciation and amortization to cash operating cost per ounce for each of the operating mines:

	 For the Three Months Ended September 30, 2019									
(Stated in thousands of U.S dollars except cost per ounce data)	 Wassa]	Prestea	(Combined					
Cost of sales excluding depreciation and amortization	 27,373		19,425		46,798					
Depreciation and amortization	3,879		3,100		6,979					
Cost of sales	 31,252		22,525		53,777					
Cost of sales excluding depreciation and amortization	27,373		19,425		46,798					
Severance charges			(13)		(13)					
Royalties	(2,579)		(1,096)		(3,675)					
Cash operating costs	 24,794		18,316		43,110					
Royalties	2,579		1,096		3,675					
Accretion of rehabilitation provision	48		133		181					
General and administrative costs, excluding share-based compensation and severance1	3,178		1,376		4,554					
Sustaining capital expenditures	5,343		2,987		8,330					
All-in sustaining costs	 35,943		23,907		59,850					
Ounces sold	33,875		14,663		48,538					
Cost of sales per ounce	\$ 923	\$	1,536	\$	1,108					
Cash operating cost per ounce	\$ 732	\$	1,249	\$	888					
All-in sustaining cost per ounce	\$ 1,061	\$	1,630	\$	1,233					

¹ Severance charges are termination costs related to the change in senior management in 2019.

	 For the Nine Months Ended September 30, 2019									
(Stated in thousands of U.S dollars except cost per ounce data)	Wassa	Pro	estea		Combined					
Cost of sales excluding depreciation and amortization	 81,295		55,813		137,108					
Depreciation and amortization	12,477		8,113		20,590					
Cost of sales	 93,772		63,926		157,698					
Cost of sales excluding depreciation and amortization	81,295		55,813		137,108					
Severance charges	(225)		(112)		(337)					
Royalties	(7,817)		(2,497)		(10,314)					
Inventory net realizable value adjustment and write-off	—		(1,051)		(1,051)					
Cash operating costs	73,253		52,153		125,406					
Royalties	7,817		2,497		10,314					
Inventory net realizable value adjustment and write-off	_		1,051		1,051					
Accretion of rehabilitation provision	143		403		546					
General and administrative costs, excluding share-based compensation and severance ¹	9,454		2,985		12,439					
Sustaining capital expenditures	13,497		7,926		21,423					
All-in sustaining costs	 104,164		67,015		171,179					
Ounces sold	114,599		36,177		150,776					
Cost of sales per ounce	\$ 818	\$	1,767	\$	1,046					
Cash operating cost per ounce	\$ 639	\$	1,442	\$	832					
All-in sustaining cost per ounce	\$ 909	\$	1,852	\$	1,135					

¹ Severance charges are termination costs related to the change in senior management in 2019.

	 For the Three Months Ended September 30, 2018									
(Stated in thousands of U.S dollars except cost per ounce data)	Wassa	Preste	ea		Combined					
Cost of sales excluding depreciation and amortization	 26,005	2	2,868		48,873					
Depreciation and amortization	5,284		3,375		8,659					
Cost of sales	 31,289	2	6,243		57,532					
Cost of sales excluding depreciation and amortization	26,005	2	2,868		48,873					
Severance charges			(6)		(6)					
Royalties	(2,309)	(1,154)		(3,463)					
Inventory net realizable value adjustment and write-off	(232)		(213)		(445)					
Cash operating costs	 23,464	2	1,495		44,959					
Royalties	 2,309		1,154		3,463					
Inventory net realizable value adjustment and write-off	232		213		445					
Accretion of rehabilitation provision	41		132		173					
General and administrative costs, excluding share-based compensation	2,658		1,344		4,002					
Sustaining capital expenditures	2,133		2,138		4,271					
All-in sustaining costs	 30,837	2	6,476		57,313					
Ounces sold	38,295	1	9,364		57,659					
Cost of sales per ounce	\$ 817	\$	1,355	\$	998					
Cash operating cost per ounce	\$ 613	\$	1,110	\$	780					
All-in sustaining cost per ounce	\$ 805	\$	1,367	\$	994					

	 For the Nine Months Ended September 30, 2018									
(Stated in thousands of U.S dollars except cost per ounce data)	Wassa	Pres	stea		Combined					
Cost of sales excluding depreciation and amortization	86,764		79,400		166,164					
Depreciation and amortization	16,473		9,642		26,115					
Cost of sales	 103,237		89,042		192,279					
Cost of sales excluding depreciation and amortization	86,764		79,400		166,164					
Severance charges	(4,970)		(6)		(4,976)					
Royalties	(7,192)		(4,101)		(11,293)					
Inventory net realizable value adjustment and write-off	(3,335)		(1,450)		(4,785)					
Cash operating costs	71,267		73,843		145,110					
Royalties	 7,192		4,101		11,293					
Inventory net realizable value adjustment and write-off	3,335		1,450		4,785					
Accretion of rehabilitation provision	122		396		518					
General and administrative costs, excluding share-based compensation	7,281		4,157		11,438					
Sustaining capital expenditures	10,220		4,542		14,762					
All-in sustaining costs	 99,417		88,489		187,906					
Ounces sold ¹	112,397		62,132		174,529					
Cost of sales per ounce	\$ 919	\$	1,433	\$	1,102					
Cash operating cost per ounce	\$ 634	\$	1,188	\$	831					
All-in sustaining cost per ounce	\$ 885	\$	1,424	\$	1,077					

¹ Ounces sold used in the calculation of cost of sales per ounce and cash operating cost per ounce in the nine months ended September 30, 2018 excludes 2,049 pre-commercial production ounces sold at Prestea Underground in January 2018.

"Cash provided by operations before working capital changes" is calculated by subtracting the "changes in working capital" from "net cash provided by operating activities" as found in the statements of cash flows. "Cash provided by operations before working capital changes per share - basic" is "Cash provided by operations before working capital changes" divided by the basic weighted average number of shares outstanding for the period.

We use cash operating cost per ounce and cash provided by operations before working capital changes as key operating metrics. We monitor these measures monthly, comparing each month's values to the values in prior periods to detect trends that may indicate increases or decreases in operating efficiencies. These measures are also compared against budget to alert management of trends that may cause actual results to deviate from planned operational results. We provide these measures to investors to allow them to also monitor operational efficiencies of the mines owned by the Company.

Cash operating cost per ounce and cash provided by operations before working capital changes should be considered non-GAAP financial measures as defined in Canadian securities laws and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS. There are material limitations associated with the use of such non-GAAP measures. Since these measures do not incorporate revenues, changes in working capital or non-operating cash costs, they are not necessarily indicative of operating profit or cash flow from operations as determined under IFRS. Changes in numerous factors including, but not limited to, mining rates, milling rates, ore grade, gold recovery, costs of labor, consumables and mine site general and administrative activities can cause these measures to increase or decrease. We believe that these measures are similar to the measures of other gold mining companies, but may not be comparable to similarly titled measures in every instance.

Adjusted net income attributable to Golden Star shareholders

The table below shows the reconciliation of net income/(loss) attributable to Golden Star shareholders to adjusted net income attributable to Golden Star shareholders and adjusted income per share attributable to Golden Star shareholders:

	 Three Months Ended September 30,				Nine Months Ended September 30,			
(Stated in thousands of U.S dollars except per share data)	2019		2018		2019		2018	
Net income/(loss) attributable to Golden Star shareholders	 5,960		(3,178)		(5,000)		(8,805)	
Add back/(deduct):								
Share-based compensation expense	614		2,164		2,618		2,746	
(Gain)/loss on fair value of financial instruments	(4,793)		629		(1,344)		(3,512)	
Severance charges ¹	336		6		4,381		4,976	
(Gain)/loss on change in asset retirement obligations	140		(384)		727		(1,505)	
Income tax expense	5,244		4,151		17,724		10,825	
	 7,501		3,388		19,106		4,725	
Adjustments attributable to non-controlling interest	(540)		(377)		(1,879)		(1,430)	
Adjusted net income attributable to Golden Star shareholders	 6,961		3,011		17,227		3,295	
Adjusted income per share attributable to Golden Star shareholders - basic	\$ 0.06	\$	0.04	\$	0.16	\$	0.04	
Weighted average shares outstanding - basic (millions) ²	109.1		76.2		108.9		76.2	

¹Severance charges includes termination costs related to the change in senior management in 2019.

²Weighted average shares outstanding - basic has been re-stated to reflect the share consolidation that was implemented on October 30, 2018.

The Company uses "Adjusted net income attributable to Golden Star shareholders" for its own internal purposes. Management's internal budgets and forecasts and public guidance do not reflect the items which have been excluded from the determination of adjusted net income attributable to Golden Star shareholders. Consequently, the presentation of adjusted net income attributable to Golden Star shareholders enables shareholders to better understand the underlying operating performance of our core mining business through the eyes of management. Management periodically evaluates the components of adjusted net earnings based on an internal assessment of performance measures that are useful for evaluating the operating performance of our business and a review of non-GAAP measures used by mining industry analysts and other mining companies.

"Adjusted net income attributable to Golden Star shareholders - basic" is calculated by adjusting net income/(loss) attributable to Golden Star shareholders for share-based compensation expenses, gain/loss on fair value of financial instruments, severance charges, loss/gain on change in asset retirement obligations and income tax expense. "Adjusted income per share attributable to Golden Star shareholders" for the period is "Adjusted net income attributable to Golden Star shareholders" divided by the weighted average number of shares outstanding using the basic method of earnings per share.

Adjusted net income attributable to Golden Star shareholders and adjusted income per share attributable to Golden Star shareholders should be considered non-GAAP financial measures as defined in the Canadian securities laws and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with GAAP. There are material limitations associated with the use of such non-GAAP measures. Since these measures do not incorporate all non-cash expense and income items, changes in working capital and non-operating cash costs, they are not necessarily indicative of operating profit or cash flow from operations as determined under IFRS. Changes in numerous factors including, but not limited to, our share price, risk-free interest rates, gold prices, mining rates, milling rates, ore grade, gold recovery, costs of labor, consumables and mine site general and administrative activities can cause these measures to increase or decrease. The Company believes that these measures are similar to the measures of other gold mining companies, but may not be comparable to similarly titled measures in every instance.

OUTSTANDING SHARE DATA

As of October 30, 2019, there were 109,244,620 common shares of the Company issued and outstanding, 3,855,805 stock options outstanding, 1,274,597 deferred share units outstanding, 971,295 share units of 2017 PRSUs outstanding and 7% Convertible Debentures which are convertible into an aggregate of 11,444,000 common shares.

CRITICAL ACCOUNTING JUDGMENTS, ESTIMATES AND ASSUMPTIONS

For a full list of judgments, estimates and assumptions, please refer to Note 4 of the 2018 Annual Financial Statements.

CHANGES IN ACCOUNTING POLICIES

The Company has adopted the following new and revised standards, effective January 1, 2019. These changes were made in accordance with the applicable transitional provisions.

IFRS 16 *Leases* specifies how an IFRS reporter will recognize, measure, present and disclose leases. The standard provides a single lessee accounting model, requiring lessees to recognize assets and liabilities for all leases unless the lease term is twelve months or less or the underlying asset has a low value. Lessors continue to classify leases as operating or finance, with IFRS 16's approach to lessor accounting substantially unchanged from its predecessor, IAS 17. IFRS 16 was issued in January 2016 and applies to annual reporting periods beginning on or after January 1, 2019.

On January 1, 2019, the Company adopted the requirements of IFRS 16 *Leases*. As a result, the Company updated its accounting policy for leases to align with the requirements of IFRS 16. The Company elected to use the modified retrospective approach to initially adopt IFRS 16 which resulted in recognizing the cumulative effect of prior period amounts as an adjustment to the opening balance sheet through opening deficit on January 1, 2019.

Under IFRS 16, the Company recognized lease liabilities in relation to leases which had previously been classified as 'operating leases' under the principles of IAS 17 *Leases*. These liabilities were measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate as of January 1, 2019. The weighted average lessee's incremental borrowing rate applied to the lease liabilities on January 1, 2019 was 7.5%.

The associated right-of-use assets for property leases were measured on a retrospective basis as if the new rules had always been applied. The change in accounting policy affected the following items in the balance sheet on January 1, 2019:

- Mining interests (plant and equipment) increase of \$0.7 million
- Long term debt (finance leases) increase of \$0.5 million

The net impact on retained earnings on January 1, 2019 was a decrease of \$0.1 million.

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IFRIC 23 Uncertainty over income tax treatments clarifies how the recognition and measurement requirements of IAS 12, Income Taxes, are applied where there is uncertainty over income tax treatments effective for years beginning on or after January 1, 2019. There was no accounting impact to the financial statements on adoption of this standard.

FINANCIAL INSTRUMENTS

	Fair value at		
(Stated in thousands of U.S dollars)	September 30, 2019	Basis of measurement	Associated risks
Cash and cash equivalents \$	56,812	Amortized cost	Interest/Credit/Foreign exchange
Accounts receivable	5,681	Amortized cost	Foreign exchange/Credit
Trade and other payables	70,537	Amortized cost	Foreign exchange/Interest
Finance leases	1,088	Amortized cost	Interest
Ecobank Loan III	15,844	Amortized cost	Interest
Ecobank Loan IV	14,750	Amortized cost	Interest
7% Convertible Debentures	46,369	Amortized cost	Interest
Vendor Agreement	17,325	Amortized cost	Interest/Foreign exchange
Long-term derivative liability	3,138	Fair value through profit and loss	Market price
Non-hedge derivative asset	304	Fair value through profit and loss	Market price

Amortized cost - Cash and cash equivalents, accounts receivable, trade and other payables, the 7% Convertible Debentures, the Ecobank Loan III, the Ecobank Loan IV, the Vendor Agreement and the finance leases approximate their carrying values as the interest rates are comparable to current market rates. Carrying value of the Vendor Agreement has been discounted to reflect its fair value.

Fair value through profit or loss - The fair value of the long-term derivative liability relating to the 7% Convertible Debentures is estimated using a convertible note valuation model. For the nine months ended September 30, 2019, a total gain of \$1.0 million

was recorded to the statement of operations. The non-hedge derivate asset relating to collar contracts is estimated using pricing models that utilize a variety of observable inputs that are a combination of quoted prices, applicable yield curves and credit spreads. For the nine months ended September 30, 2019, the Company recognized an unrealized gain of \$0.3 million.

DISCLOSURES ABOUT RISKS

The Company's exposure to significant risks include, but are not limited to, the following risks: change in interest rates on our debt, change in foreign currency exchange rates, commodity price fluctuations, liquidity risk and credit risk. In recognition of the Company's outstanding accounts payable, the Company cannot guarantee that vendors or suppliers will not suspend or deny delivery of products or services to the Company.

During the third quarter of 2019, the Company continued to undertake a review of the Prestea mining operations with a third party consultant to re-define the mine plan and operating activities. This plan is being further reviewed and should the review result in unfavourable financial outcomes for the operations the Company would consider this an indicator of impairment and will test for the cash generating units recoverable amount at that time. The recoverable amount would be most sensitive to changes in, amongst other things, discount rates, future production and sales volumes, metal prices, reserves and resource quantities, metal grades, future operating and capital costs and reclamation costs to the end of the mine's life. The carrying value of the Prestea mine is \$132.6 million as at September 30, 2019.

For a complete discussion of the risks, refer to the Company's Annual Information Form for the year ended December 31, 2018 available on the SEDAR website at www.sedar.com.

CONTROLS AND PROCEDURES

Disclosure Controls and Procedures

The Company's management, with the participation of its President and Chief Executive Officer and Executive Vice President and Chief Financial Officer, has evaluated the effectiveness of the Company's disclosure controls and procedures. Based upon the results of that evaluation, the Company's President and Chief Executive Officer and Executive Vice President and Chief Financial Officer have concluded that, as of September 30, 2019, the Company's disclosure controls and procedures were effective to provide reasonable assurance that the information required to be disclosed by the Company in reports it files is recorded, processed, summarized and reported, within the appropriate time periods and is accumulated and communicated to management, including the President and Chief Executive Officer and Executive Vice President and Chief Financial Officer, as appropriate to allow timely decisions regarding required disclosure.

Management's Report on Internal Control Over Financial Reporting

The Company's management, with the participation of its President and Chief Executive Officer and Executive Vice President and Chief Financial Officer, are responsible for establishing and maintaining adequate internal control over financial reporting. Under the supervision of the President and Chief Executive Officer and Executive Vice President and Chief Financial Officer, the Company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with IFRS. The Company's internal control over financial reporting includes policies and procedures that:

- pertain to the maintenance of records that accurately and fairly reflect, in reasonable detail, the transactions and dispositions of assets of the Company;
- provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with IFRS and that
 the Company's receipts and expenditures are made only in accordance with authorizations of management and the Company's directors; and
- provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the Company's assets that could have a material effect on the Company's consolidated financial statements.

The Company's management, including the President and Chief Executive Officer and Executive Vice President and Chief Financial Officer, believes that any disclosure controls and procedures or internal control over financial reporting, no matter how well conceived and operated, can provide only reasonable, not absolute, assurance that the objectives of the control system are met. Further, the design of a control system must reflect the fact that there are resource constraints, and the benefits of controls must be considered relative to their costs. Because of the inherent limitations in all control systems, they cannot provide absolute assurance that all control issues and instances of fraud, if any, within the Company have been prevented or detected. These inherent limitations include the realities that judgments in decision-making can be faulty, and that breakdowns can occur because of simple error or mistake. Additionally, controls can be circumvented by the individual acts of some persons, by collusion of two or more people, or by unauthorized override of the control. The design of any control system also is based in part upon certain assumptions



about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Accordingly, because of the inherent limitations in a cost-effective control system, misstatements due to error or fraud may occur and not be detected.

Changes in Internal Control Over Financial Reporting

There has been no change in the Company's design of internal controls and procedures over financial reporting that has materially affected, or is reasonably likely to materially affect, the Company's internal control over financial reporting during the period covered by this MD&A.

RISK FACTORS AND ADDITIONAL INFORMATION

Additional information regarding the Company, including the Company's Annual Information Form for the year ended December 31, 2018, is available under the Company's profile on SEDAR at www.sedar.com.



Condensed Interim Consolidated Financial Statements For the Three and Nine Months Ended September 30, 2019 and September 30, 2018

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GOLDEN STAR RESOURCES LTD. CONDENSED INTERIM CONSOLIDATED STATEMENTS OF OPERATIONS AND COMPREHENSIVE INCOME/(LOSS) (Stated in thousands of U.S. dollars except shares and per share data)

(unaudited)

	Notes	Three Months Ended September 30,									Nine Months Ended September 30,						
			2019		2019		2019		2019		2019		2018		2019		2018
Revenue	12	\$	69,504	\$	67,738	\$	198,676	\$	215,678								
Cost of sales excluding depreciation and amortization	13		46,798		48,873		137,108		166,164								
Depreciation and amortization			6,979		8,659		20,590		26,115								
Mine operating margin			15,727		10,206		40,978		23,399								
Other expenses/(income)																	
Exploration expense			862		501		2,507		1,967								
General and administrative			5,491		6,166		19,101		14,184								
Finance expense, net	15		3,911		4,086		11,060		14,260								
Other expense/(income)			86		(1,105)		545		(2,148)								
(Gain)/loss on fair value of financial instruments, net	4		(4,793)		629		(1,344)		(3,512)								
Income/(loss) before tax			10,170		(71)		9,109		(1,352)								
Income tax expense	16		5,244		4,151		17,724		10,825								
Net income/(loss) and comprehensive income/(loss)		\$	4,926	\$	(4,222)	\$	(8,615)	\$	(12,177)								
Net loss attributable to non-controlling interest			(1,034)		(1,044)		(3,615)		(3,372)								
Net income/(loss) attributable to Golden Star shareholders		\$	5,960	\$	(3,178)	\$	(5,000)	\$	(8,805)								
Net income/(loss) per share attributable to Golden Star shareholders																	
Basic	17	\$	0.05	\$	(0.04)	\$	(0.05)	\$	(0.12)								
Diluted	17	\$	0.02	\$	(0.04)	\$	(0.05)	\$	(0.12)								
Weighted average shares outstanding-basic (millions)			109.1		76.2		108.9		76.2								
Weighted average shares outstanding-diluted (millions)			123.3		76.2		108.9		76.2								

The accompanying notes are an integral part of the condensed interim consolidated financial statements.

GOLDEN STAR RESOURCES LTD. CONDENSED INTERIM CONSOLIDATED BALANCE SHEETS (Stated in thousands of U.S. dollars) (unaudited)

		Se	As of September 30, 2019		As of ecember 31, 2018
ASSETS					
CURRENT ASSETS					
Cash and cash equivalents		\$	56,812	\$	96,507
Accounts receivable			5,681		3,213
Inventories	5		37,274		35,196
Prepaids and other			4,873		5,291
Total Current Assets			104,640		140,207
RESTRICTED CASH			6,545		6,545
MINING INTERESTS	6		298,008		270,640
DEFERRED TAX ASSETS			_		595
Total Assets		\$	409,193	\$	417,987
LIABILITIES					
CURRENT LIABILITIES					
Accounts payable and accrued liabilities	7	\$	80,895	\$	78,484
Current portion of rehabilitation provisions	8	Ψ	9,340	ł	7,665
Current portion of deferred revenue	9		12,351		14,316
Current portion of long term debt	10		27,929		27,482
Current income tax liabilities	16		2,235		
Other liability	14				6,410
Total Current Liabilities			132,750		134,357
REHABILITATION PROVISIONS	8		56,453		58,560
DEFERRED REVENUE	9		101,314		105,632
LONG TERM DEBT	10		67,447		73,224
DERIVATIVE LIABILITY	4		3,138		4,177
DEFERRED TAX LIABILITY	16		11,255		
Total Liabilities			372,357		375,950
SHAREHOLDERS' EQUITY					
SHARE CAPITAL					
First preferred shares, without par value, unlimited shares authorized. No shares issued and outstanding					
Common shares, without par value, unlimited shares authorized			909,846		908,035
CONTRIBUTED SURPLUS			38,923		37,258
DEFICIT			(836,345)		(831,283)
Shareholders' equity attributable to Golden Star shareholders			112,424		114,010
NON-CONTROLLING INTEREST			(75,588)		(71,973)
Total Equity			36,836		42,037
Total Liabilities and Shareholders' Equity		\$	409,193	\$	417,987

The accompanying notes are an integral part of the condensed interim consolidated financial statements.

Signed on behalf of the Board,

<u>"Timothy C. Baker"</u> Timothy C. Baker, Director

<u>"Robert E. Doyle"</u> Robert E. Doyle, Director



GOLDEN STAR RESOURCES LTD.

CONDENSED INTERIM CONSOLIDATED STATEMENTS OF CASH FLOWS

(Stated in thousands of U.S. dollars)

(unaudited)

		Thr	Three Months Ended September 30,			Ni	ine Months End	eptember 30,	
	Notes		2019		2018		2019		2018
OPERATING ACTIVITIES:									
Net income/(loss)		\$	4,926	\$	(4,222)	\$	(8,615)	\$	(12,177)
Reconciliation of net income/(loss) to net cash provided by operating activities:									
Depreciation and amortization			7,112		8,669		20,987		26,142
Share-based compensation	14		614		2,164		2,618		2,746
Income tax expense	16		5,244		4,151		17,724		10,825
(Gain)/loss on fair value of 7% Convertible Debentures embedded derivative	4		(4,489)		629		(1,040)		(3,512)
Recognition of deferred revenue	9		(2,645)		(4,154)		(9,498)		(11,352)
Reclamation expenditures	8		(958)		(943)		(2,328)		(4,220)
Other	20		2,094		1,653		7,549		10,581
Changes in working capital	20		(3,761)		2,824		(17,667)		(1,912)
Net cash provided by operating activities			8,137		10,771		9,730		17,121
INVESTING ACTIVITIES:									
Additions to mining properties			_		(85)		(288)		(467)
Additions to plant and equipment			(98)				(98)		(245)
Additions to construction in progress			(16,852)		(9,699)		(46,699)		(28,941)
Proceeds from asset disposal			_		38		_		38
Change in accounts payable and deposits on mine equipment and material			1,598		(426)		4,805		(1,236)
Increase in restricted cash			_		—		_		(6)
Net cash used in investing activities			(15,352)		(10,172)		(42,280)		(30,857)
FINANCING ACTIVITIES:									
Principal payments on debt	10		(2,661)		(4,112)		(8,264)		(10,730)
Proceeds from debt agreements			_		_		_		35,000
Royal Gold loan repayment			_		—		_		(20,000)
Exercise of options			534		—		1,119		38
Net cash (used in)/provided by financing activities			(2,127)		(4,112)		(7,145)		4,308
Decrease in cash and cash equivalents			(9,342)		(3,513)		(39,695)		(9,428)
Cash and cash equivalents, beginning of period			66,154		21,872		96,507		27,787
Cash and cash equivalents, end of period		\$	56,812	\$	18,359	\$	56,812	\$	18,359

See Note 20 for supplemental cash flow information.

The accompanying notes are an integral part of the condensed interim consolidated financial statements.

GOLDEN STAR RESOURCES LTD.

CONDENSED INTERIM CONSOLIDATED STATEMENTS OF CHANGES IN SHAREHOLDERS' EQUITY (Stated in thousands of U.S. dollars except share data) (unaudited)

	Number of Common Shares		Share Capital	Contributed Surplus	Deficit	N	on-Controlling Interest	SI	Total hareholders' Equity
Balance at December 31, 2017	76,116,215	\$	783,167	\$ 35,284	\$ (794,180)	\$	(66,025)	\$	(41,754)
Impact of adopting IFRS 15 on January 1, 2018			_	_	(18,980)		_		(18,980)
Balance at January 1, 2018 (restated)	76,116,215		783,167	35,284	(813,160)		(66,025)		(60,734)
Shares issued under DSUs	36,196		20	(165)	_		_		(145)
Shares issued under options	12,500		43	(5)	_		_		38
Options granted net of forfeitures	_		_	1,017	_		_		1,017
Deferred share units granted	_		_	419	_		_		419
Performance and restricted share units granted	_		—	273	_		—		273
Net loss		_	_	 	 (8,805)		(3,372)		(12,177)
Balance at September 30, 2018	76,164,911	\$	783,230	\$ 36,823	\$ (821,965)	\$	(69,397)	\$	(71,309)
Balance at December 31, 2018	108,819,009	\$	908,035	\$ 37,258	\$ (831,283)	\$	(71,973)	\$	42,037
Impact of adopting IFRS 16 on January 1, 2019 (see Note 3)			_	_	(62)		_		(62)
Balance at January 1, 2019 (restated)	108,819,009		908,035	37,258	(831,345)		(71,973)		41,975
Shares issued under options	359,772		1,811	(692)	_		_		1,119
Options granted net of forfeitures	_		_	1,639	_		_		1,639
Deferred share units granted	—		_	563	_		_		563
Performance and restricted share units granted	_		_	461	_		_		461
PRSU settlement, net of tax	65,839		_	(306)	_		_		(306)
Net loss			_	 _	 (5,000)		(3,615)		(8,615)
Balance at September 30, 2019	109,244,620	\$	909,846	\$ 38,923	\$ (836,345)	\$	(75,588)	\$	36,836

The accompanying notes are an integral part of the condensed interim consolidated financial statements.

GOLDEN STAR RESOURCES LTD.

NOTES TO THE CONDENSED INTERIM CONSOLIDATED FINANCIAL STATEMENTS FOR THE THREE AND NINE MONTHS ENDED SEPTEMBER 30, 2019 AND 2018 (All currency amounts in tables are in thousands of U.S. dollars unless noted otherwise) (unaudited)

1. NATURE OF OPERATIONS

Golden Star Resources Ltd. ("Golden Star" or "the Company" or "we" or "our") is a Canadian federally-incorporated, international gold mining and exploration company headquartered in Toronto, Canada. The Company's shares are listed on the Toronto Stock Exchange under the symbol GSC, the NYSE American (formerly NYSE MKT) under the symbol GSS and the Ghana Stock Exchange under the symbol GSR. The Company's registered office is located at 150 King Street West, Suite 1200, Toronto, Ontario, M5H 1J9, Canada.

Through our 90% owned subsidiary, Golden Star (Wassa) Limited, we own and operate the Wassa open-pit gold mine, the Wassa underground mine and a carbonin-leach processing plant (collectively, "Wassa"), located northeast of the town of Tarkwa, Ghana. Through our 90% owned subsidiary Golden Star (Bogoso/Prestea) Limited, we own and operate the Bogoso gold mining and processing operations, the Prestea open-pit mining operations and the Prestea underground mine ("Prestea") located near the town of Prestea, Ghana. We hold and manage interests in several gold exploration projects in Ghana and in Brazil.

2. BASIS OF PRESENTATION

Statement of compliance

These unaudited condensed interim consolidated financial statements have been prepared in accordance with International Financial Reporting Standards ("IFRS"), as issued by the International Accounting Standards Board ("IASB") including International Accounting Standards ("IAS") 34 Interim financial reporting. These condensed interim consolidated financial statements should be read in conjunction with the Company's annual consolidated financial statements for the year ended December 31, 2018, which have been prepared in accordance with IFRS as issued by the IASB. The accounting policies and methods of application adopted are consistent with those disclosed in Note 3 of the Company's consolidated financial statements for the year ended December 31, 2018, except for the changes in accounting policies described below.

These condensed interim consolidated financial statements were approved by the Audit Committee of the Company on October 30, 2019.

Basis of presentation

These condensed interim consolidated financial statements include the accounts of the Company and its subsidiaries, whether owned directly or indirectly. The financial statements of the subsidiaries are prepared for the same period as the Company using consistent accounting policies for all periods presented, except for the changes in accounting policies described in Note 3 below. All inter-company balances and transactions have been eliminated. Subsidiaries are entities controlled by the Company. Non-controlling interests in the net assets of consolidated subsidiaries are a separate component of the Company's equity.

These condensed interim consolidated financial statements have been prepared on a going concern basis, which contemplates the realization of assets and discharge of all liabilities in the normal course of business.

The condensed interim consolidated financial statements have been prepared on a historical cost basis, except for derivative financial instruments which are measured at fair value through profit or loss.

3. CHANGES IN ACCOUNTING POLICIES

New Accounting Standards Effective 2019

The Company has adopted the following new and revised standards, effective January 1, 2019. These changes were made in accordance with the applicable transitional provisions.

IFRS 16 Leases specifies how an IFRS reporter will recognize, measure, present and disclose leases. The standard provides a single lessee accounting model, requiring lessees to recognize assets and liabilities for all leases unless the lease term is 12 months or less or the underlying asset has a low value. Lessors continue to classify leases as operating or finance, with IFRS 16's approach to lessor accounting substantially unchanged from its predecessor, IAS 17. IFRS 16 was issued in January 2016 and applies to annual reporting periods beginning on or after January 1, 2019.

On January 1, 2019, the Company adopted the requirements of IFRS 16 *Leases*. As a result, the Company updated its accounting policy for leases to align with the requirements of IFRS 16. The Company elected to use the modified retrospective approach to initially adopt IFRS 16 which resulted in recognizing the cumulative effect of prior period amounts as an adjustment to the opening balance sheet through opening deficit on January 1, 2019.

Under IFRS 16, the Company recognized lease liabilities in relation to leases which had previously been classified as 'operating leases' under the principles of IAS 17 *Leases*. These liabilities were measured at the present value of the remaining lease payments, discounted using the lessee's incremental borrowing rate as of January 1, 2019. The weighted average lessee's incremental borrowing rate applied to the lease liabilities on January 1, 2019 was 7.5%.

The associated right-of-use assets for property leases were measured on a retrospective basis as if the new rules had always been applied. The change in accounting policy affected the following items in the balance sheet on January 1, 2019:

- Mining interests (plant and equipment) increase of \$0.7 million
- Long term debt (finance leases) increase of \$0.5 million

The net impact on retained earnings on January 1, 2019 was a decrease of \$0.1 million

IFRIC 23 Uncertainty over income tax treatments clarifies how the recognition and measurement requirements of IAS 12, Income Taxes, are applied where there is uncertainty over income tax treatments effective for years beginning on or after January 1, 2019. There was no accounting impact to the financial statements on adoption of this standard.

4. FINANCIAL INSTRUMENTS

The following tables illustrate the classification of the Company's recurring fair value measurements for financial instruments within the fair value hierarchy and their carrying values and fair values as at September 30, 2019 and December 31, 2018:

		September 30, 2019		December	31, 2018
	Level	Carrying value	Fair value	Carrying value	Fair value
Financial Liabilities					
Fair value through profit or loss					
7% Convertible Debentures embedded derivative	3	3,138	3,138	4,177	4,177
Financial Assets					
Non-hedge derivative contracts	2	304	304		

There were no non-recurring fair value measurements of financial instruments as at September 30, 2019.

The three levels of the fair value hierarchy are:

Level 1 - Unadjusted quoted prices in active markets for identical assets or liabilities;

Level 2 - Inputs other than quoted prices that are observable for the asset or liability either directly or indirectly; and

Level 3 - Inputs that are not based on observable market data.

The Company's policy is to recognize transfers into and transfers out of the fair value hierarchy levels as of the date of the event or change in circumstances that caused the transfer. During the nine months ended September 30, 2019, there were no transfers between the levels of the fair value hierarchy.

(Gain)/loss on fair value of financial instruments in the Statements of Operations and Comprehensive Income/(Loss) consists of the following:

	Three Months Ended September 30,				nded 80,			
		2019		2018		2019		2018
(Gain)/loss on fair value of 7% Convertible Debentures embedded derivative	\$	(4,488)	\$	629	\$	(1,039)	\$	(3,512)
Unrealized gain on non-hedge derivative contracts		(304)		—		(304)		_
	\$	(4,792)	\$	629	\$	(1,343)	\$	(3,512)



The valuation technique that is used to measure fair value is as follows:

7% Convertible Debentures embedded derivative

The debt component of the 7% Convertible Debentures is recorded at amortized cost using the effective interest rate method, and the conversion feature is classified as an embedded derivative measured at fair value through profit or loss.

The embedded derivative was valued at September 30, 2019 and December 31, 2018 using a convertible note valuation model. The significant inputs used in the convertible note valuation are as follows:

	September 30, 2019	December 31, 2018
Embedded derivative		
Risk premium	8.5%	5.0%
Borrowing costs	7.5%	10.0%
Expected volatility	45.0%	45.0%
Remaining life (years)	1.9	2.6

The following table presents the changes in the 7% Convertible Debentures embedded derivative for the nine months ended September 30, 2019:

	Fai	r value
Balance at December 31, 2018	\$	4,177
Gain on fair value of 7% Convertible Debentures embedded derivative		(1,039)
Balance at September 30, 2019	\$	3,138

If the risk premium increases by 10%, the fair value of the 7% Convertible Debentures embedded derivative would decrease and the related gain in the Statement of Operations would increase by \$0.1 million at September 30, 2019.

If the borrowing costs increases by 10%, the fair value of the 7% Convertible Debentures embedded derivative would decrease and the related gain in the Statement of Operations would increase by \$0.1 million at September 30, 2019.

If the expected volatility increases by 10%, the fair value of the 7% Convertible Debentures embedded derivative would increase and the related gain in the Statement of Operations would decrease by \$0.8 million at September 30, 2019.

Non-hedge derivative contracts

During the nine months ended September 30, 2019, the Company entered into costless collars consisting of puts and calls, on 50,000 ounces of gold with a floor price of \$1,400 per ounce and a ceiling price of \$1,750 per ounce with maturity dates ranging from October 2019 to September 2020.

The non-hedge accounted collar contracts are considered fair value through profit or loss financial instruments with fair value determined using pricing models that utilize a variety of observable inputs that are a combination of quoted prices, applicable yield curves and credit spreads. The non-hedge derivative contracts are included with Prepaids and Other on the Balance Sheet.

During the nine months ended September 30, 2019, the Company recognized an unrealized gain of \$0.3 million on the non-hedge accounted collar contracts.

5. INVENTORIES

Inventories include the following components:

	As of		As of
	Septemi 20		mber 31, 2018
Stockpiled ore	\$	6,661	\$ 6,613
In-process ore		2,880	4,188
Materials and supplies		26,815	23,659
Finished goods		918	736
Total	\$	37,274	\$ 35,196

The cost of inventories expensed for the nine months ended September 30, 2019 and 2018 was \$126.8 million and \$154.9 million, respectively.

Net realizable value adjustments of \$nil and \$1.1 million were recorded for stockpiled ore in the three and nine months ended September 30, 2019, respectively (three and nine months ended September 30, 2018 - \$0.4 million and \$2.3 million, respectively).

6. MINING INTERESTS

The following table shows the breakdown of the cost, accumulated depreciation and net book value of plant and equipment, mining properties and construction in progress:

	Plant and equipment	Mini	ing properties	С	onstruction in progress	Total
Cost	 					
Balance at December 31, 2018	\$ 478,760	\$	930,230	\$	28,569	\$ 1,437,559
Additions	859		288		46,699	47,846
Transfers	(1,192)		13,311		(12,119)	—
Change in rehabilitation provision estimate	—		623			623
Disposals and other	(621)		—			(621)
Balance at September 30, 2019	\$ 477,806	\$	944,452	\$	63,149	\$ 1,485,407
Accumulated depreciation						
Balance at December 31, 2018	\$ 432,799	\$	734,120	\$		\$ 1,166,919
Depreciation and amortization	7,972		12,977			20,949
Disposals and other	(469)		—			(469)
Balance at September 30, 2019	\$ 440,302	\$	747,097	\$		\$ 1,187,399
Carrying amount	 					
Balance at December 31, 2018	\$ 45,961	\$	196,110	\$	28,569	\$ 270,640
Balance at September 30, 2019	\$ 37,504	\$	197,355	\$	63,149	\$ 298,008

As at September 30, 2019, equipment under finance leases had net carrying amounts of \$2.7 million (December 31, 2018 - \$3.0 million). The total minimum lease payments are disclosed in Note 10 - Debt.

During the third quarter of 2019, the Company continued to undertake a review of the Prestea mining operations with a third party consultant to re-define the mine plan and operating activities. This plan is being further reviewed and should the review result in unfavourable financial outcomes for the operations the Company would consider this an indicator of impairment and will test for the cash generating units recoverable amount at that time. The recoverable amount would be most sensitive to changes in, amongst other things, discount rates, future production and sales volumes, metal prices, reserves and resource quantities, metal grades, future operating and capital costs and reclamation costs to the end of the mine's life. The carrying value of the Prestea mine is \$132.6 million as at September 30, 2019.

7. ACCOUNTS PAYABLE AND ACCRUED LIABILITIES

Accounts payable and accrued liabilities include the following components:

	Septe	As of ember 30, 2019	As of December 31, 2018		
Trade and other payables	\$	44,110	\$	42,947	
Accrued liabilities		26,427		25,522	
Payroll related liabilities		10,358		10,015	
Total	\$	80,895	\$	78,484	

8. REHABILITATION PROVISIONS

At September 30, 2019, the total undiscounted amount of future cash needs for rehabilitation was estimated to be \$70.4 million. A discount rate assumption of 2% and an inflation rate assumption of 2% were used to value the rehabilitation provisions. The changes in the carrying amount of the rehabilitation provisions are as follows:

	Mo	or the Nine onths Ended otember 30, 2019	Ende	the Year d December 31, 2018
Beginning balance	\$	66,225	\$	70,712
Accretion of rehabilitation provisions		546		691
Changes in estimates		1,350		138
Cost of reclamation work performed		(2,328)		(5,316)
Balance at the end of the period	\$	65,793	\$	66,225
Current portion	\$	9,340	\$	7,665
Long term portion		56,453		58,560
Total	\$	65,793	\$	66,225

9. DEFERRED REVENUE

The Company through its subsidiary Caystar Finance Co. completed a \$145 million gold purchase and sale agreement ("Streaming Agreement") with RGLD Gold AG ("RGLD"), a wholly-owned subsidiary of Royal Gold, Inc. Golden Star will deliver 10.5% of gold production from Wassa and Prestea at a cash purchase price of 20% of spot gold until 240,000 ounces have been delivered. Thereafter, 5.5% of gold production from Wassa and Prestea at a cash purchase price of 30% of spot gold price will be delivered. The Company has delivered a total of 93,934 ounces of gold to RGLD since the inception of the Streaming Agreement.

During the nine months ended September 30, 2019, the Company sold 15,472 ounces of gold to RGLD. Revenue recognized on the ounces sold to RGLD during the nine months ended September 30, 2019 consisted of \$4.2 million of cash payment proceeds and \$9.5 million of deferred revenue recognized in the period (see Note 12).

		ine Months ed September 30,		ecember 31,	
	_	2019	2018		
Beginning balance	\$	119,948	\$	109,956	
Impact of adopting IFRS 15 on January 1, 2018		_		18,980	
Deferred revenue recognized		(9,498)		(13,738)	
Interest on financing component of deferred revenue		3,215		4,750	
Balance at the end of the period	\$	113,665	\$	119,948	
Current portion	\$	12,351	\$	14,316	
Long term portion		101,314		105,632	
Total	\$	113,665	\$	119,948	

10. DEBT

The following table displays the components of our current and long term debt instruments:

	Sep	As of tember 30, 2019	Dece	As of mber 31, 2018
Current debt:				
Finance leases	\$	1,049	\$	1,151
Ecobank Loan III		5,555		5,555
Ecobank Loan IV		4,000		4,000
Vendor agreement		17,325		16,776
Total current debt	\$	27,929	\$	27,482
Long term debt:				
Finance leases	\$	39	\$	532
Ecobank Loan III		10,289		14,380
Ecobank Loan IV		10,750		13,700
7% Convertible Debentures		46,369		44,612
Total long term debt	\$	67,447	\$	73,224
Current portion	\$	27,929	\$	27,482
Long term portion		67,447		73,224
Total	\$	95,376	\$	100,706

7% Convertible Debentures

As at September 30, 2019, \$51.5 million principal amount of 7% Convertible Debentures remains outstanding. The changes in the carrying amount of the 7% Convertible Debentures are as follows:

	Nine Months Ended September 30, 			Year Ended December 31, 2018		
Beginning balance	\$	44,612	\$	42,515		
Accretion of 7% Convertible Debentures discount		1,757		2,097		
Balance at the end of the period	\$	46,369	\$	44,612		

Schedule of payments on outstanding debt as of September 30, 2019:

	Three months ending Y December 31, 2019		nding December 31, 2020	Year e	nding December 31, 2021	ding December 31, 2022	ling December 1, 2023	Maturity
Finance leases								
Principal	\$ 390	\$	698	\$	_	\$ _	\$ _	2020
Interest	18		12			—	—	
Ecobank Loan III								
Principal	1,389		5,555		5,555	3,611	_	2022
Interest	385		1,189		632	101	—	
Ecobank Loan IV								
Principal	1,000		4,000		4,000	4,000	2,000	2023
Interest	373		1,250		847	448	74	
7% Convertible Debentures								
Principal	—		—		51,498	—		2021
Interest	—		3,605		3,605	—	—	
Vendor agreement								
Principal	17,508		—		—	—	—	2019
Interest	937		_		_	—	—	
Total principal	\$ 20,287	\$	10,253	\$	61,053	\$ 7,611	\$ 2,000	
Total interest	1,713		6,056		5,084	549	74	
	\$ 22,000	\$	16,309	\$	66,137	\$ 8,160	\$ 2,074	

On October 17, 2019, the Company closed the \$60 million senior secured credit facility with Macquarie Bank Limited (the "Credit Facility"). Golden Star has used the proceeds to repay the Ecobank Loan III, Ecobank Loan IV, and the long-term payable under the Vendor Agreement with Volta River Authority. The remaining balance is available for general corporate purposes (see Note 21).

11. COMMITMENTS AND CONTINGENCIES

The Company has capital commitments of \$17.3 million, all of which are expected to be incurred within the next year.

Due to the nature of the Company's operations, various legal matters from time to time arise in the ordinary course of business. The Company accrues for such items when a liability is both probable and the amount can be reasonably estimated. In the opinion of management, these matters will not have a material effect on the condensed interim consolidated financial statements of the Company.

12. REVENUE

Revenue includes the following components:

	 Three Months Ended September 30,				Nine Months Ended September 30,			
	2019 2018		2019			2018		
Revenue - Streaming Agreement								
Cash payment proceeds	\$ 1,273	\$	1,592	\$	4,186	\$	4,897	
Deferred revenue recognized	2,645		4,154		9,498		11,352	
	3,918		5,746		13,684		16,249	
Revenue - Spot sales	65,586		61,992		184,992		199,429	
Total revenue	\$ 69,504	\$	67,738	\$	198,676	\$	215,678	

13. COST OF SALES EXCLUDING DEPRECIATION AND AMORTIZATION

Cost of sales excluding depreciation and amortization include the following components:

	 Three Months Ended September 30,					nths Ended nber 30,	
	2019 2018				2019		2018
Mine operating expenses	\$ 42,749	\$	43,400	\$	125,418	\$	133,002
Severance charges	13		6		337		4,976
Operating costs from/(to) metal inventory	361		1,559		(12)		12,108
Inventory net realizable value adjustment and write-off	_		445		1,051		4,785
Royalties	3,675		3,463		10,314		11,293
	\$ 46,798	\$	48,873	\$	137,108	\$	166,164

14. SHARE-BASED COMPENSATION

Share-based compensation expenses recognized in general and administrative expense in the Statements of Operations and Comprehensive Loss, are as follows:

	Three Mon Septem			Nine Months Ended September 30,			
	2019	2018	2019			2018	
Share options	\$ 376	\$ 169	\$	1,639	\$	1,017	
Deferred share units	166	144		563		419	
Share appreciation rights	(61)	(59)	(45)		(359)	
Performance share units	133	1,910		461		1,669	
	\$ 614	\$ 2,164	\$	2,618	\$	2,746	

Share options

The fair value of option grants is estimated at the grant dates using the Black-Scholes option-pricing model. Fair values of options granted during the nine months ended September 30, 2019 and 2018 were based on the weighted average assumptions noted in the following table:

		nths Ended mber 30,
	2019	2018
Expected volatility	51.20%	72.16%
Risk-free interest rate	1.73%	2.38%
Expected lives	5.7 years	5.7 years

The weighted average fair value per option granted during the nine months ended September 30, 2019 was \$2.54 CAD (nine months ended September 30, 2018 - \$2.89 CAD). As at September 30, 2019, there was \$0.8 million of share-based compensation

expense (September 30, 2018 - \$0.9 million) relating to the Company's share options to be recorded in future periods. For the nine months ended September 30, 2019, the Company recognized an expense of \$1.6 million (nine months ended September 30, 2018 - \$1.0 million).

A summary of option activity under the Company's Stock Option Plan during the nine months ended September 30, 2019 is as follows:

	Options ('000)	Weighted– Average Exercise price (\$CAD)	Weighted– Average Remaining Contractual Term (Years)
Outstanding as of December 31, 2018	3,498	5.28	6.3
Granted	806	5.21	9.5
Exercised	(360)	4.09	7.9
Forfeited	(33)	5.52	7.9
Expired	(55)	8.50	—
Outstanding as of September 30, 2019	3,856	5.33	4.9
Exercisable as of December 31, 2018	2,664	5.42	5.5
Exercisable as of September 30, 2019	3,263	5.36	4.1

As of September 30, 2019, there were 1,200,333 common shares available for grant under the Stock Option Plan (December 31, 2018 - 1,917,767).

Deferred share units ("DSUs")

For the nine months ended September 30, 2019, the DSUs that were granted vested immediately and a compensation expense of \$0.6 million was recognized for these grants (nine months ended September 30, 2018 - \$0.4 million). As of September 30, 2019, there was no unrecognized compensation expense related to DSUs granted under the Company's DSU Plan.

A summary of DSU activity during the nine months ended September 30, 2019 and 2018:

		ths Ended nber 30,
	2019	2018
Number of DSUs, beginning of period ('000)	1,086	1,018
Granted	144	110
Exercised	_	(82)
Number of DSUs, end of period ('000)	1,230	1,046

Share appreciation rights ("SARs")

As of September 30, 2019, there was approximately \$0.2 million of total unrecognized compensation cost related to unvested SARs (September 30, 2018 - \$0.3 million). For the nine months ended September 30, 2019, the Company recognized \$nil expense related to these cash settled awards (nine months ended September 30, 2018 - \$0.4 million recovery).

A summary of the SARs activity during the nine months ended September 30, 2019 and 2018:

	Nine Months September	
	2019	2018
Number of SARs, beginning of period ('000)	674	533
Granted	285	304
Exercised	(130)	(18)
Forfeited	(152)	(50)
Expired	(3)	—
Number of SARs, end of period ('000)	674	769

Performance share units ("PSUs")

The final PSU grant vested on December 31, 2018 and, as a result, the Company did not recognize a PSU expense in 2019. For the nine months ended September 30, 2018 the Company recognized a \$1.4 million expense related to PSU's. The Company paid out the final amount owing of \$6.4 million in April 2019 and as at September 30, 2019 there is no longer a PSU liability recognized on the Balance Sheet.

A summary of the PSU activity during the nine months ended September 30, 2019 and 2018:

	Nine Month Septembe	
	2019	2018
Number of PSUs, beginning of period ('000)	1,172	2,720
Settled	(1,172)	(1,548)
Number of PSUs, end of period ('000)		1,172

2017 Performance and restricted share units ("PRSUs")

PRSUs are accounted for as equity awards with a corresponding compensation expense recognized. For the nine months ended September 30, 2019, the Company recognized \$0.5 million expense (nine months ended September 30, 2018 - \$0.3 million).

A summary of the PRSU activity during the nine months ended September 30, 2019 and 2018:

	Nine Months Septembe	
	2019	2018
Number of PRSUs, beginning of period ('000)	791	338
Granted	561	479
Settled	(142)	
Forfeited	(239)	_
Number of PRSUs, end of period ('000)	971	817

15. FINANCE EXPENSE, NET

Finance income and expense includes the following components:

	Three Months Ended September 30,				Nine Months Ended September 30,			
	2019 2018				2019		2018	
Interest income	\$ (280)	\$	(50)	\$	(1,201)	\$	(65)	
Interest expense, net of capitalized interest	3,040		3,145		9,004		10,119	
Interest on financing component of deferred revenue (see Note 9)	1,072		1,187		3,215		3,562	
Net foreign exchange (gain)/loss	(102)		(369)		(504)		126	
Accretion of rehabilitation provision	181		173		546		518	
	\$ 3,911	\$	4,086	\$	11,060	\$	14,260	

On February 1, 2018, Prestea Underground mine achieved commercial production, therefore no capitalized interest was recorded since.

16. INCOME TAXES

Income tax expense is recognized based on management's estimate of the weighted average annual income tax rate expected for the full financial year. The provision for income taxes includes the following components:

	 Three Months Ended September 30,							
		2019		2018	3 2019			2018
Current expense:								
Canada	\$	_	\$	_	\$		\$	_
Foreign		4,519				5,874		
Deferred tax expense:								
Canada		—						
Foreign		725		4,151		11,850		10,825
Tax expense	\$	5,244	\$	4,151	\$	17,724	\$	10,825

17. INCOME/(LOSS) PER COMMON SHARE

The following table provides a reconciliation between basic and diluted loss per common share:

	Three Mor Septen		Nine Mon Septen			
	 2019		2018	 2019	2018	
Net income/(loss) attributable to Golden Star shareholders	\$ 5,960	\$	(3,178)	\$ (5,000)	\$ (8,805)	
Adjustments:						
Interest expense on 7% Convertible Debentures	909		_	_	—	
Accretion of 7% Convertible Debentures discount	612		_	_	_	
Gain on fair value of 7% Convertible Debentures embedded derivative	(4,488)		—	—	—	
Diluted income/(loss)	\$ 2,993	\$	(3,178)	\$ (5,000)	\$ (8,805)	
Weighted average number of basic shares (millions)	109.1		76.2	108.9	76.2	
Dilutive securities:						
Options	0.6		_	—	_	
Deferred share units	1.2		_	_	—	
Performance and restricted share units	1.0		_	—	_	
7% Convertible Debentures	11.4		_	_	—	
Weighted average number of diluted shares (millions)	123.3		76.2	108.9	76.2	
Income/(loss) per share attributable to Golden Star shareholders:						
Basic	\$ 0.05	\$	(0.04)	\$ (0.05)	\$ (0.12)	
Diluted	\$ 0.02	\$	(0.04)	\$ (0.05)	\$ (0.12)	

18. RELATED PARTY TRANSACTIONS

There were no material related party transactions for the nine months ended September 30, 2019 and 2018 other than the items disclosed below.

Key management personnel

Key management personnel is defined as members of the Board of Directors and certain senior officers. Compensation of key management personnel are as follows, with such compensation made on terms equivalent to those prevailing in an arm's length transaction:

		Three Mor Septen				Nine Mor Septer			
	2019			2019 2018			2018		
Salaries, wages, and other benefits	\$	\$ 1,411		678	\$	4,952	\$	2,185	
Bonuses		415		333		2,147		999	
Share-based compensation		377		1,892		1,996		2,674	
	\$ 2,203		203 \$ 2,903		\$	\$ 9,095		5,858	

19. SEGMENTED INFORMATION

Segmented revenue and results

The Company has reportable segments as identified by the individual mining operations. Segments are operations reviewed by the executive management. Each segment is identified based on quantitative and qualitative factors.

ree Months Ended September 30,	Wassa	Prestea Other		restea Other		rate	Total
19							
Revenue	\$ 48,384	\$ 21,120		—			\$ 69,504
Mine operating expenses	25,040	17,709		—			42,749
Severance charges	—	13		—			13
Operating costs (to)/from metal inventory	(246)	607		—			361
Royalties	2,579	1,096		—			3,675
Cost of sales excluding depreciation and amortization	 27,373	 19,425		_			 46,798
Depreciation and amortization	3,879	3,100		—			6,979
Mine operating margin/(loss)	 17,132	 (1,405)		_			 15,727
Income tax expense	5,244			—			5,244
Net income/(loss) attributable to non-controlling interest	973	(2,007)				—	(1,034)
Net income/(loss) attributable to Golden Star	\$ 9,026	\$ (449)	\$	(1,180)	\$ (1	,437)	\$ 5,960
Capital expenditures	\$ 13,768	\$ 3,182		—		—	\$ 16,950
18							
Revenue	\$ 45,029	\$ 22,709	\$	—	\$		\$ 67,738
Mine operating expenses	21,694	21,706		—			43,400
Severance charges	—	6		—			6
Operating costs from/(to) metal inventory	1,770	(211)		—			1,559
Inventory net realizable value adjustment and write-off	232	213		—			445
Royalties	2,309	1,154		—		—	3,463
Cost of sales excluding depreciation and amortization	 26,005	 22,868		_		_	 48,873
Depreciation and amortization	5,284	3,375		—		—	8,659
Mine operating margin/(loss)	 13,740	 (3,534)		_		_	 10,206
Income tax expense	4,151			—		—	4,151
Net income/(loss) attributable to non-controlling interest	770	(1,814)				—	(1,044)
Net income/(loss) attributable to Golden Star	\$ 7,785	\$ (1,951)	\$	(1,564)	\$ (7	7,448)	\$ (3,178)
Capital expenditures	\$ 7,033	\$ 2,751	\$		\$		\$ 9,784

Nine Months Ended September 30,		Wassa		Prestea	Other			Corporate	 Total
2019									
Revenue	\$	150,269	\$	48,407				—	\$ 198,676
Mine operating expenses		72,540		52,878				_	125,418
Severance charges		225		112				—	337
Operating costs from/(to) metal inventory		713		(725)				_	(12
Inventory net realizable value adjustment and write-off				1,051				—	1,051
Royalties		7,817		2,497					 10,314
Cost of sales excluding depreciation and amortization		81,295		55,813				—	137,108
Depreciation and amortization		12,477		8,113					 20,590
Mine operating margin/(loss)		56,497		(15,519)		—		—	40,978
Income tax expense		17,724		—		—		—	17,724
Net income/(loss) attributable to non-controlling interest		3,292		(6,907)				—	(3,615
Net income/(loss) attributable to Golden Star	\$	29,885	\$	(11,562)	\$	(3,927)	\$	(19,396)	\$ (5,000
Capital expenditures	\$	38,456	\$	8,629		_		—	\$ 47,085
2018									
Revenue	\$	138,969	\$	76,709	\$		\$	_	\$ 215,678
Mine operating expenses		64,872		68,130				_	133,002
Severance charges		4,970		6				_	4,976
Operating costs from metal inventory		6,395		5,713				_	12,108
Inventory net realizable value adjustment and write-off		3,335		1,450				_	4,785
Royalties		7,192		4,101				_	11,293
Cost of sales excluding depreciation and amortization		86,764		79,400				_	 166,164
Depreciation and amortization		16,473		9,642				_	26,115
Mine operating margin/(loss)		35,732		(12,333)				_	 23,399
Income tax expense		10,825		_				_	10,825
Net income/(loss) attributable to non-controlling interest		2,010		(5,382)				_	(3,372
Net income/(loss) attributable to Golden Star	\$	19,373	\$	(8,401)	\$	(6,836)	\$	(12,941)	\$ (8,805
Capital expenditures	\$	21,522	\$	10,032	\$		\$	_	\$ 31,554
Segmented Assets									
The following table presents the segmented assets:									
		Wassa		Prestea		Other	0	Corporate	Total
September 30, 2019									
Total assets	\$	213,908	\$	151,328	\$	1,943	\$	42,014	\$ 409,193
December 31, 2018									
Total assets	\$	181,446	\$	147,815	\$	898	\$	87,828	\$ 417,987
	Ŷ	.,	Ŧ	,	-			,	.,

Information about major customers

Currently, approximately 90% of our gold production is sold through a South African gold refinery. Except for the sales to RGLD as part of the Streaming Agreement, the refinery arranges for the sale of gold on the day it is shipped from the mine sites and we receive payment for gold sold two working days after the gold leaves the mine site. The global gold market is competitive with numerous banks and refineries willing to buy gold on short notice. Therefore, we believe that the loss of our current customer would not materially delay or disrupt revenue.

20. SUPPLEMENTAL CASH FLOW INFORMATION

During the three and nine months ended September 30, 2019, the Company paid interest of \$2.6 million and \$6.4 million, respectively (three and nine months ended September 30, 2018 - \$2.9 million and \$6.8 million, respectively). During the three and nine months ended September 30, 2019, the Company paid income taxes of \$nil and \$3.6 million, respectively (three and nine months ended September 30, 2018 - \$nil).

Changes in working capital for the nine months ended September 30, 2019 and 2018 are as follows:

	Three Months Ended September 30,					Nine Months Endeo September 30,				
	2019		2019 20		2019			2018		
(Increase)/decrease in accounts receivable	\$	(354)	\$	1,101	\$	(2,468)	\$	57		
(Increase)/decrease in inventories		(380)		(28)		(3,167)		7,676		
(Increase)/decrease in prepaids and other		(428)		(240)		(296)		261		
(Decrease)/increase in accounts payable and accrued liabilities		(2,599)		1,991		(1,687)		(9,906)		
Decrease in current income tax liabilities		_		_		(3,639)		_		
Decrease in other liability (see Note 14)				—		(6,410)		_		
Total changes in working capital	\$	(3,761)	\$	2,824	\$	(17,667)	\$	(1,912)		

Other includes the following components:

	Thr	ee Months I	September	Nine Months Ended September 30,					
		2019		2018	2019			2018	
Loss/(gain) on disposal of assets	\$	152	\$	(525)	\$	152	\$	(305)	
Inventory net realizable value adjustment and write-off		_		445		1,051		4,785	
Loss/(gain) on fair value of marketable securities		13		(4)		18		155	
Accretion of vendor agreement		183		183		549		549	
Accretion of rehabilitation provisions (see Note 8)		181		173		546		518	
Amortization of financing fees		41		42		125		1,280	
Accretion of 7% Convertible Debentures discount		611		536		1,757		1,542	
Interest on lease obligation (see Note 3)		5		_		19		_	
Loss/(gain) on change in rehabilitation provisions		140		(384)		727		(1,505)	
Interest on financing component of deferred revenue (see Note 9)		1,072		1,187		3,215		3,562	
Unrealized gain on non-hedge derivative contracts		(304)		—		(304)		_	
PRSU settlement		_		_		(306)		_	
	\$	2,094	\$	1,653	\$	7,549	\$	10,581	

Non-cash changes of liabilities arising from financing activities

During the three and nine months ended September 30, 2019 and 2018, the non-cash change related to the changes in liabilities arising from financing activities is as follows:

Th	Three Months Ended September 30,				Nine Months Ended September 30,			
	2019	2018			2019		2018	
\$	835	\$	761	\$	2,431	\$	3,371	

21. SUBSEQUENT EVENT

On October 17, 2019, the Company closed the \$60 million senior secured credit facility with Macquarie Bank Limited (the "Credit Facility"). The Credit Facility is repayable \$5 million quarterly, commencing on June 30, 2020. The final maturity date is March 31, 2023. The interest rate is 4.5% plus the applicable USD LIBOR rate. The Credit Facility is subject to normal course financial covenants including a Debt Service Coverage Ratio of greater than 1.20:1 and a Net Debt to EBITDA ratio of less than 3.00:1.

Golden Star has used the proceeds to repay the Ecobank Loan III, Ecobank Loan IV, and the long-term payable under the Vendor Agreement with Volta River Authority. The remaining balance is available for general corporate purposes.

FORM 52 - 109F2 CERTIFICATION OF INTERIM FILINGS FULL CERTIFICATE

I, Andrew Wray, Chief Executive Officer of Golden Star Resources Ltd., certify the following:

1. *Review:* I have reviewed the interim financial report and interim MD&A (together, the "interim filings") of Golden Star Resources Ltd. (the "issuer") for the interim period ended September 30, 2019.

2. *No misrepresentations:* Based on my knowledge, having exercised reasonable diligence, the interim filings do not contain any untrue statement of a material fact or omit to state a material fact required to be stated or that is necessary to make a statement not misleading in light of the circumstances under which it was made, with respect to the period covered by the interim filings.

3. *Fair presentation:* Based on my knowledge, having exercised reasonable diligence, the interim financial report together with the other financial information included in the interim filings fairly present in all material respects the financial condition, financial performance and cash flows of the issuer, as of the date of and for the periods presented in the interim filings.

4. *Responsibility:* The issuer's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (DC&P) and internal control over financial reporting (ICFR), as those terms are defined in National Instrument 52-109 *Certification of Disclosure in Issuers' Annual and Interim Filings*, for the issuer.

5. *Design:* Subject to the limitations, if any, described in paragraphs 5.2 and 5.3, the issuer's other certifying officer and I have, as at the end of the period covered by the interim filings

A. designed DC&P, or caused it to be designed under our supervision, to provide reasonable assurance that

I. material information relating to the issuer is made known to us by others, particularly during the period in which the interim filings are being prepared; and

II. information required to be disclosed by the issuer in its annual filings, interim filings or other reports filed or submitted by it under securities legislation is recorded, processed, summarized and reported within the time periods specified in securities legislation; and

B. designed ICFR, or caused it to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with the issuer's GAAP.

5.1 *Control framework:* The control framework the issuer's other certifying officer and I used to design the issuer's ICFR is the Internal Control – Integrated Framework (COSO Framework) published by The Committee of Sponsoring Organizations of the Treadway Commission (2013).

5.2 ICFR - material weakness relating to design: N/A

5.3 Limitation on scope of design: N/A

6. *Reporting changes in ICFR*: The issuer has disclosed in its interim MD&A any change in the issuer's ICFR that occurred during the period beginning on July 1, 2019 and ended on September 30, 2019 that has materially affected, or is reasonably likely to materially affect, the issuer's ICFR.

Date: October 30, 2019

(signed) Andrew Wray

Andrew Wray Chief Executive Officer

FORM 52 - 109F2 CERTIFICATION OF INTERIM FILINGS FULL CERTIFICATE

I, André van Niekerk, Executive Vice President and Chief Financial Officer of Golden Star Resources Ltd., certify the following:

1. *Review:* I have reviewed the interim financial report and interim MD&A (together, the "interim filings") of Golden Star Resources Ltd. (the "issuer") for the interim period ended September 30, 2019.

2. *No misrepresentations:* Based on my knowledge, having exercised reasonable diligence, the interim filings do not contain any untrue statement of a material fact or omit to state a material fact required to be stated or that is necessary to make a statement not misleading in light of the circumstances under which it was made, with respect to the period covered by the interim filings.

3. *Fair presentation:* Based on my knowledge, having exercised reasonable diligence, the interim financial report together with the other financial information included in the interim filings fairly present in all material respects the financial condition, financial performance and cash flows of the issuer, as of the date of and for the periods presented in the interim filings.

4. *Responsibility:* The issuer's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (DC&P) and internal control over financial reporting (ICFR), as those terms are defined in National Instrument 52-109 *Certification of Disclosure in Issuers' Annual and Interim Filings*, for the issuer.

5. *Design:* Subject to the limitations, if any, described in paragraphs 5.2 and 5.3, the issuer's other certifying officer and I have, as at the end of the period covered by the interim filings

A. designed DC&P, or caused it to be designed under our supervision, to provide reasonable assurance that

I. material information relating to the issuer is made known to us by others, particularly during the period in which the interim filings are being prepared; and

II. information required to be disclosed by the issuer in its annual filings, interim filings or other reports filed or submitted by it under securities legislation is recorded, processed, summarized and reported within the time periods specified in securities legislation; and

B. designed ICFR, or caused it to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with the issuer's GAAP.

5.1 *Control framework:* The control framework the issuer's other certifying officer and I used to design the issuer's ICFR is the Internal Control – Integrated Framework (COSO Framework) published by The Committee of Sponsoring Organizations of the Treadway Commission (2013).

5.2 ICFR - material weakness relating to design: N/A

5.3 Limitation on scope of design: N/A

6. *Reporting changes in ICFR*: The issuer has disclosed in its interim MD&A any change in the issuer's ICFR that occurred during the period beginning on July 1, 2019 and ended on September 30, 2019 that has materially affected, or is reasonably likely to materially affect, the issuer's ICFR.

Date: October 30, 2019

(signed) André van Niekerk

André van Niekerk Executive Vice President and Chief Financial Officer