



Strong quarter puts Northern Star on track to meet growth targets

Latest results well within FY2018 guidance; Production set to hit 600,000ozpa next calendar year with mine life visibility of +10 years

KEY POINTS

- ▶ Gold sold of 138,459oz in the September Quarter, comfortably within the FY2018 guidance range of 525,000-575,000oz
- ▶ All-in sustaining cost (AISC) of A\$1,021/oz, well within the FY2018 guidance cost range of A\$1,000-A\$1,050/oz
- ▶ Free cash flow of A\$26m in the September Quarter after investing A\$32m in organic growth which will increase production to 600,000ozpa in CY2018
- ▶ Cash and equivalents at the Quarter's end of A\$443m after paying A\$36m in dividends; Northern Star has no bank debt
- ▶ September Quarter production:
 - Jundee Gold Operations:
 - 76,326oz mined and 75,131oz sold at an AISC of A\$794/oz
 - FY2018 guidance is 245,000-265,000oz at an AISC A\$950-A\$1,000/oz
 - Kalgoorlie Gold Operations:
 - 65,178oz mined and 52,048oz sold at an AISC of A\$1,184/oz*
 - FY2018 guidance is 245,000-265,000oz at an AISC A\$1,000-A\$1,050/oz
 - Paulsens Gold Operations:
 - 12,922oz mined and 11,280oz sold at an AISC of A\$1,818/oz
 - FY2018 guidance is 35,000-45,000oz at an AISC A\$1,300-A\$1,400/oz
- ▶ Total Reserves up by 2.3Moz to 3.5Moz (despite depletion of 546,000oz in FY2017) at a cost of just A\$24/oz; Resources increased by 2.7Moz to 10.2Moz; Measured and Indicated Resources up 58% to 6.3Moz, underpinning 10-year mine life visibility
- ▶ FY2018 exploration budget of A\$35m to underpin Reserve/Resources replacement and further growth
- ▶ Northern Star to spend A\$65m in FY18 on expansionary capital for next chapter of production growth; Upgraded production capacity will position Jundee and Kalgoorlie operations to each produce ~300,000ozpa within two years
- ▶ Discovery of the major Zodiac high-grade lode at Jundee; this is not included in the inventory update. Initial assays show multiple intercepts over a 200m single downhole interval: 4.8m at 21.2gpt, 2.9m at 10.4gpt, 0.3m at 47.0gpt, 3.6m at 4.0gpt, 3.1m at 4.3gpt & 2.5m at 5.4gpt
- ▶ Construction of the 50,000ozpa Millennium underground has been completed ahead of schedule and under budget; first production ore has been delivered
- ▶ The A\$18m mill expansion at Jundee, which lifts capacity to 1.7Mtpa, has been completed ahead of schedule and under budget
- ▶ Northern Star will host a quarterly conference call today at 8:30am AWST (11:30am AEDT), Thursday, 19 October 2017. The call can be accessed at <https://boardroom.media/broadcast/?eid=59d2b1656d13462469ed6be8>

Northern Star Resources Limited (ASX: NST) is pleased to report on an outstanding quarter of achievement which has ensured the Company remains well on track to achieve its key performance and growth targets.

Gold sold in the September Quarter totalled 138,459oz at an AISC of A\$1,021/oz. Both metrics sit comfortably within the FY2018 guidance range of 525,000-575,000oz at an AISC of A\$1,000-A\$1,050/oz.

Northern Star generated free cashflow of A\$26 million in the quarter after investing A\$32 million in its exploration and expansion programs.

ASX ANNOUNCEMENT 19 October 2017

Australian Securities
Exchange Code: NST

Board of Directors

Mr Bill Beament
Executive Chairman

Mr Chris Rowe
Non-Executive Director

Mr Peter O'Connor
Non-Executive Director

Mr John Fitzgerald
Non-Executive Director

Ms Shirley In'tVeld
Non-Executive Director

Mr David Flanagan
Non-Executive Director

Issued Capital

Shares 603.2 million
Options 0.8 million
Performance Rights 9.6 million

Current Share Price A\$5.18

Market Capitalisation
A\$3.1 billion

Cash, Bullion & Investments
30 September 2017 - A\$442.7
million

Projects

Paulsens Mine
Kanowna Belle Mine
Kundana Mines (51% of EKJV)
Jundee Mine
Central Tanami (25% of JV)

Listed Investments

VXR, DAU, RND, TBR, ALY

QUARTERLY ACTIVITIES REPORT

For the Quarter ended 30 September 2017



As a result, the Company finished the quarter with A\$443 million in cash and equivalents (A\$447 million at 30 June 2017) after paying out A\$36 million in fully franked dividends.

Northern Star Executive Chairman Bill Beament said it had been a pivotal quarter for the Company, which was now on its next chapter of growth.

"Our investment in exploration delivered the long mine life asked of us by the market," Mr Beament said. "We now have mine life visibility of 10 years, including Reserves of 3.5 million ounces.

"We have also made an outstanding start to meeting our production and cost guidance for this financial year and we are investing in the capacity expansions which will increase production to our target rate of 600,000ozpa next calendar year.

"This strategy is underpinned by our world-class Jundee and Kalgoorlie operations, both of which are set to produce 300,000ozpa.

"We will also continue to invest heavily in exploration, with A\$35 million earmarked this year to replace and/or grow Reserves and Resources."

Northern Star	Units	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr*	FYTD
Ore Hoisted	Tonnes	802,342	749,727	892,454	955,552	955,552
Mined Grade	gpt Au	5.3	5.3	5.9	5.0	5.0
Gold in Ore Hoisted	Oz	137,031	126,749	167,818	154,426	154,426
Milled Tonnes	Tonnes	856,398	871,461	943,018	941,560	941,560
Head Grade	gpt Au	5.0	4.9	5.5	5.1	5.1
Ounces Produced	Oz	136,755	136,673	167,359	152,865	152,865
Recovery	%	91	92	92	91	91
Gold Recovered	Oz	124,871	125,753	154,116	138,422	138,422
Ounces Sold	Oz	120,089	132,558	147,728	138,459	138,459
Average Gold Price	A\$/oz	1,645	1,651	1,681	1,665	1,665
Revenue	A\$M	197.5	218.9	248.4	226.1	226.1
Cash Operating Cost	A\$/oz	780	763	723	780	780
All-in Sustaining Cost	A\$/oz	1,063	988	938	1,021	1,021
Total Stockpiles Contained Gold	Oz	84,121	75,101	75,616	75,221	75,221
Gold in Circuit (GIC)	Oz	20,715	13,858	20,005	20,556	20,556

* Includes mine production performance from Millennium operations (5,071 ounces mined, 2,615 ounces produced and sold). Costs incurred at Millennium operations will be capitalised until commercial production rates are achieved and therefore do not impact AISC measures.

Table 1: Key Group Performance Figures (Quarterly)

Northern Star	Units	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr	FYTD
Mining	A\$/oz	487	443	489	525	525
Processing	A\$/oz	194	167	175	188	188
Site Services	A\$/oz	51	50	41	59	59
Ore Stock & GIC Movements	A\$/oz	11	65	(22)	(27)	(27)
Royalties	A\$/oz	40	40	42	38	38
By Product Credits	A\$/oz	(4)	(4)	(4)	(3)	(3)
Rehabilitation-Accretion & Amortisation	A\$/oz	5	4	4	4	4
Corporate Overheads	A\$/oz	37	39	56	45	45
Mine Development/Sustaining CAPEX	A\$/oz	208	165	131	163	163
Mine Exploration	A\$/oz	34	19	25	29	29
All-in Sustaining Costs	A\$/oz	1,063	988	938	1,021	1,021
Depreciation & Amortisation	A\$/oz	302	245	288	338	338

Table 2: Key Group Cost per Ounce Measures

Production KPIs September Quarter	Units	Paulsens	Kalgoorlie Operations*	Jundee	Total
Total Ore Hoisted	Tonnes	99,362	399,498	407,808	906,668
Mine Grade	gpt Au	4.0	4.7	5.8	5.1
Gold in Ore Hoisted	Oz	12,922	60,107	76,326	149,355
Milled Tonnes	Tonnes	117,700	383,937	408,067	909,704
Head Grade	gpt Au	3.9	4.5	6.1	5.1
Recovery	%	80	93	91	91
Gold Recovered	Oz	11,628	51,708	72,471	135,807
Gold Sold	Oz	11,280	49,433	75,131	135,844
Cash Operating Costs	A\$/oz	1,458	879	613	780
All-In Sustaining Costs	A\$/oz	1,818	1,184	794	1,021
Depreciation & Amortisation	A\$/oz	1,645	226	215	338

* Excluding Millennium operations

Table 3: Key Quarterly Mine Production Performance

FINANCE

The following is a table of the cash, bullion and investments held at the end of each quarter:

		Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Cash at bank	A\$M	\$282.1	\$351.2	\$403.0	\$385.5
Bullion awaiting settlement ⁽¹⁾	A\$M	\$12.5	\$13.2	\$14.1	\$17.1
Investments ⁽²⁾	A\$M	\$8.4	\$28.5	\$30.1	\$40.1
Total	A\$M	\$303.0	\$392.9	\$447.2	\$442.7

⁽¹⁾ Bullion awaiting settlement is done which has been received by the refiner in the quarter and is awaiting settlement.

⁽²⁾ Includes Superior Gold Inc investment value.

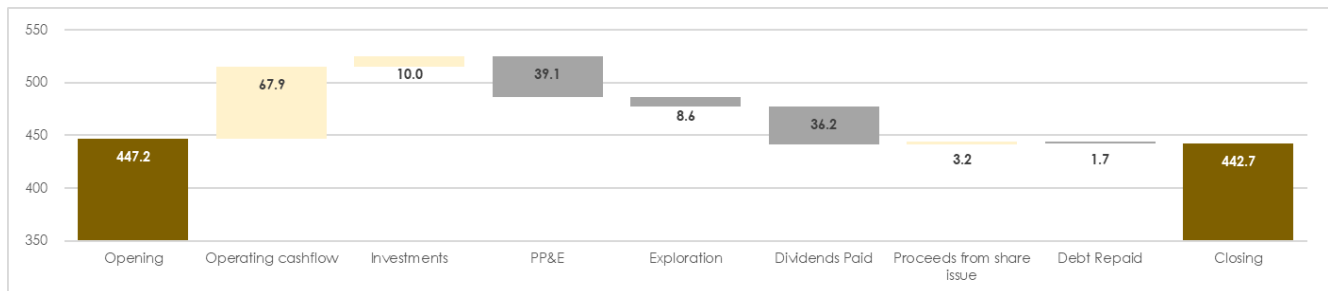
Table 4: Cash, Bullion and equity investments

The below table sets out the total of surface gold inventories:

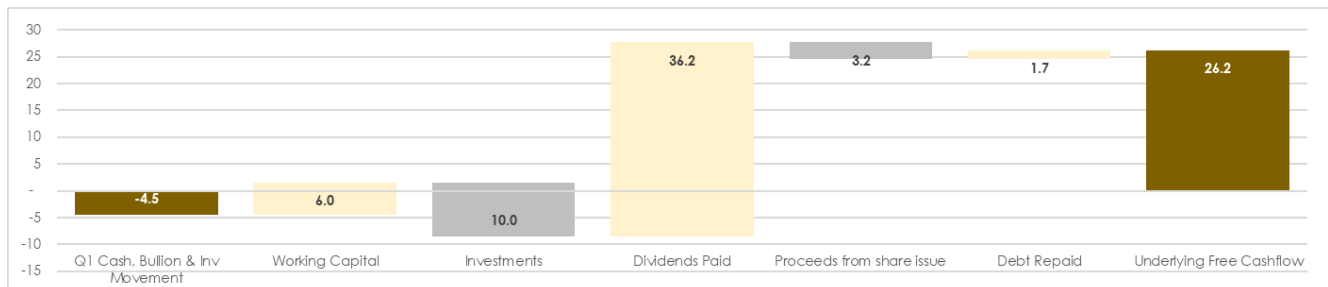
Gold Inventories	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Stockpiles contained gold (oz)	84,121	75,101	75,616	75,221
Gold in circuit (oz)	20,715	13,858	20,005	20,556
Gold in transit (oz)	-	-	-	-
Total Gold Inventories (oz)	104,836	88,959	95,621	95,777

Table 5: Gold Inventories

The below waterfall chart highlights the September Quarter's operating cash flow together with movements in cash, bullion and investments (A\$M):



The below waterfall chart highlights the underlying free cash flow for the September Quarter (A\$M):



Banking Facilities

Northern Star has in place an undrawn three-year A\$100 million revolving debt facility with a self-arranged syndicate of Australian and International banks.

Hedging

The below table outlines the Company's current hedging position:

Term	Dec-17 Half	Jun-18 Half	Dec-18 Half	Jun-19 Half	Dec-19 Half	Total
Ounces	52,000	77,000	73,500	64,000	50,000	316,500
Gold Price	A\$1,743	A\$1,773	A\$1,756	A\$1,730	A\$1,739	A\$1,750

Table 6: Hedging commitments

QUARTERLY ACTIVITIES REPORT

For the Quarter ended 30 September 2017



OPERATIONS

Jundee Gold Operations

Production Summary Jundee		Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr	FYTD
Ore Mined	Tonnes	391,574	356,573	405,063	407,808	407,808
Mined Grade	gpt Au	4.7	4.8	7.1	5.8	5.8
Ounces Mined	Oz	59,527	55,438	92,377	76,326	76,326
Milled Tonnes	Tonnes	391,593	403,613	431,788	408,067	408,067
Head Grade	gpt Au	4.7	4.5	6.6	6.1	6.1
Recovery	%	90	90	92	91	91
Gold Recovered	Oz	53,554	51,926	84,854	72,471	72,471
Gold Sold	Oz	51,528	53,914	78,649	75,131	75,131
Cost per Ounce						
Mining	A\$/oz	476	517	398	384	384
Processing	A\$/oz	186	206	142	149	149
Site Services	A\$/oz	47	55	30	37	37
Ore Stock Movements	A\$/oz	(20)	15	19	7	7
Royalties	A\$/oz	41	40	42	39	39
By Product Credits	A\$/oz	(3)	(3)	(3)	(3)	(3)
Cash Operating Costs	A\$/oz	727	830	628	613	613
Rehabilitation - Accretion & Amortisation	A\$/oz	4	4	2	3	3
Corporate Overheads	A\$/oz	38	39	56	45	45
Mine Development / Sustaining CAPEX	A\$/oz	178	157	56	111	111
Jundee Mine Exploration	A\$/oz	18	13	12	22	22
All-in Sustaining Costs	A\$/oz	965	1,043	754	794	794
Depreciation & Amortisation	A\$/oz	319	247	280	215	215

Table 7: Summary Details – Jundee

Kalgoorlie Gold Operations

Production Summary Kalgoorlie Operations		Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr*	FYTD
Ore Mined	Tonnes	328,013	319,922	379,815	399,498	399,498
Mined Grade	gpt Au	5.9	5.7	5.0	4.7	4.7
Ounces Mined	Oz	62,169	58,857	60,765	60,107	60,107
Milled Tonnes	Tonnes	355,144	360,082	391,170	383,937	383,937
Head Grade	gpt Au	5.2	5.6	4.8	4.5	4.5
Recovery	%	93	95	94	93	93
Gold Recovered	Oz	55,660	61,130	57,173	51,708	51,708
Gold Sold	Oz	53,531	65,532	56,549	49,433	49,433
Cost per Ounce						
Mining	A\$/oz	487	377	573	666	666
Processing	A\$/oz	174	100	181	205	205
Site Services	A\$/oz	44	34	44	75	75
Ore Stock Movements	A\$/oz	32	115	(78)	(101)	(101)
Royalties	A\$/oz	40	40	42	38	38
By Product Credits	A\$/oz	(5)	(5)	(4)	(4)	(4)
Cash Operating Costs	A\$/oz	772	661	758	879	879
Rehabilitation - Accretion & Amortisation	A\$/oz	4	4	4	5	5
Corporate Overheads	A\$/oz	35	40	54	45	45
Mine Development / Sustaining CAPEX	A\$/oz	180	136	185	207	207
Kalgoorlie Operations Mine Exploration	A\$/oz	54	26	48	48	48
All-in Sustaining Costs	A\$/oz	1,045	867	1,049	1,184	1,184
Depreciation & Amortisation	A\$/oz	249	210	248	226	226

* Excluding Millennium operations

Table 8: Summary Details – Kalgoorlie Operations

Paulsens Gold Operations

Production Summary Paulsens		Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr	FYTD
Ore Mined	Tonnes	82,754	73,232	107,576	99,362	99,362
Mined Grade	gpt Au	5.8	5.3	4.2	4.0	4.0
Ounces Mined	Oz	15,335	12,454	14,676	12,922	12,922
Milled Tonnes	Tonnes	109,661	107,766	120,060	117,700	117,700
Head Grade	gpt Au	5.0	4.2	3.7	3.9	3.9
Recovery	%	89	87	84	80	80
Gold Recovered	Oz	15,657	12,697	12,089	11,628	11,628
Gold Sold	Oz	15,031	13,112	12,530	11,280	11,280
Cost per Ounce						
Mining	A\$/oz	519	471	692	849	849
Processing	A\$/oz	296	347	355	376	376
Site Services	A\$/oz	94	112	99	133	133
Ore Stock Movements	A\$/oz	45	24	(29)	70	70
Royalties	A\$/oz	40	40	42	32	32
By Product Credits	A\$/oz	(2)	(2)	(2)	(2)	(2)
Cash Operating Costs	A\$/oz	992	992	1,157	1,458	1,458
Rehabilitation - Accretion & Amortisation	A\$/oz	8	4	8	2	2
Corporate Overheads	A\$/oz	37	38	60	43	43
Mine Development / Sustaining CAPEX	A\$/oz	410	335	368	313	313
Paulsens Mine Exploration	A\$/oz	15	1	-	2	2
All-in Sustaining Costs	A\$/oz	1,462	1,370	1,593	1,818	1,818
Depreciation & Amortisation	A\$/oz	429	417	518	1,645	1,645

Table 9: Summary Details – Paulsens

Additional information on the individual Operations can be found in Appendix 1.

EXPLORATION AND DEVELOPMENT - OPERATIONS

The major focus of the Group's drilling activity was on in-mine and surface exploration activity across the Group's projects.

Kanowna Belle

Underground diamond drilling continued with four rigs operating within the Kanowna Belle mine on grade control, infill and resource extension programs.

Resource definition and exploration drilling progressed in the Lowes E Block Far East, HW Porphyry Xenoliths, Lowes West and Velvet Lower areas from several platforms.

EKJV (NST 51%)

Underground diamond drilling across the Rubicon-Hornet-Pegasus complex continued during the quarter with three diamond rigs.

Resource definition drilling at Rubicon Central concentrated on lateral extensions to the "Nugget Lode" mineralisation associated with the K2B structure in a similar position to the "Pode" at Pegasus. In addition, several drill holes targeting the footwall of Rubicon for potential new lodes near the White Foil Fault drilling commenced from the northern-most available stockpile of the Link Drill Drive at Rubicon South testing the depth extensions to the main K2 structure.

Resource definition drilling programs at Pegasus Central continued targeting the northern extension of the Nugget lode adjacent to the current mining operations.

At Hornet, drilling from the new the Link Drill Drive targeted north and south extensions of Hornet K2 and adjacent hanging wall mineralisation.

Late in the quarter, a diamond drilling program commenced at Raleigh targeting parallel structures in the footwall to the Raleigh Main Vein.

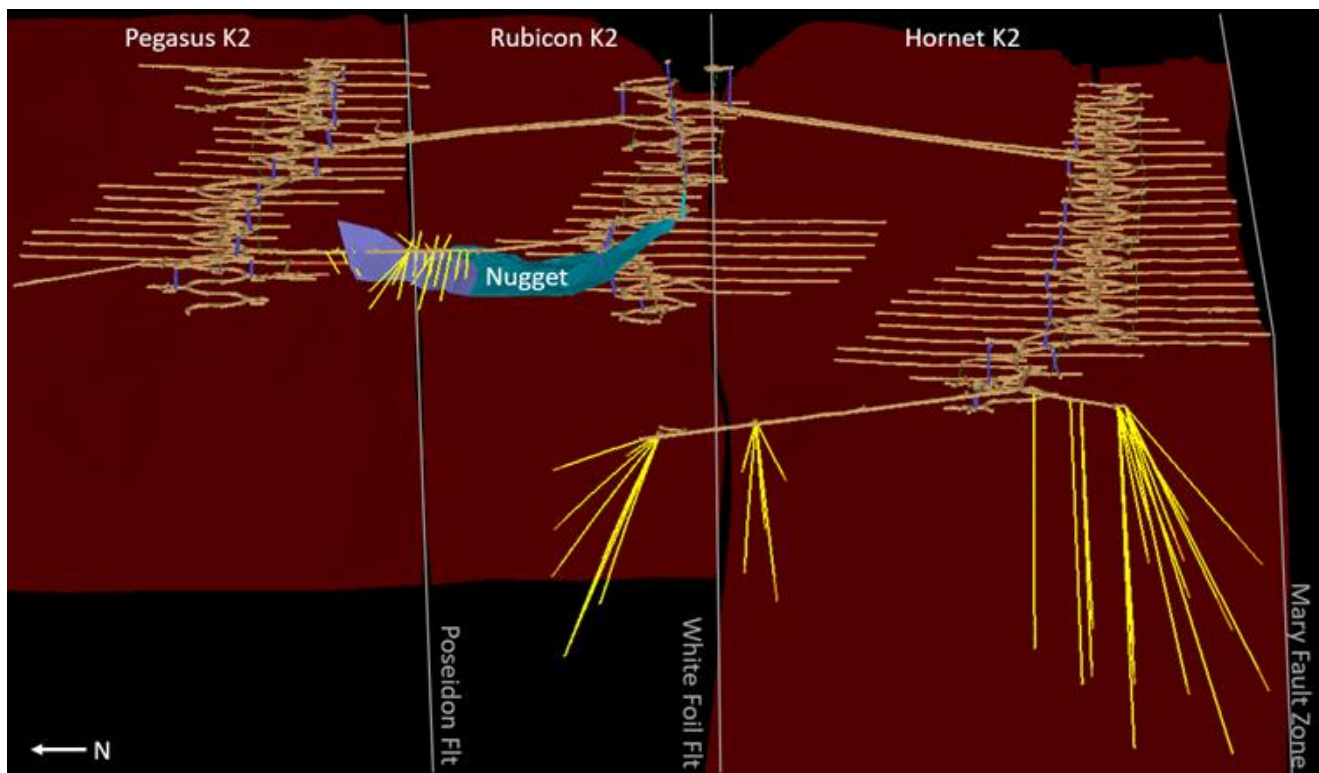


Figure 1 – RHP underground extensional and exploration drilling completed.

Kundana (100% NST)

Underground grade control drilling commenced at the Millennium Mine during the quarter targeting the initial planned stope blocks in the central portion of the mine.

Carbine

An RC drilling program was completed testing the projected strike extensions of the Arina Lode structure north of the existing Paradigm open pit. In addition, diamond drilling on the Arina Lode targeted previous significant drill results to the north from the current resource area and several existing holes were selected for re-entry and extension based on an updated geological interpretation. Assay results are pending.

Jundee

Within the Jundee mine, the underground drill rig fleet (seven rigs) focussed on in-mine Resource conversion and exploration programs during the quarter.

In-mine Resource development and infill programs at Barton, Gateway, Invicta, Nexus, Moneyline and Wilson areas continued. Infill drilling into the central section of Armada from the 31S DD and the 31ARM RAD platforms was completed consistently intersecting mineralised structures at target depth.

Level development on the Armada structure commenced during the quarter with the first strike drives underway from the 37L access decline. The development of Armada is now focussed on the underground development to allow for grade control drilling programs to finalise stope designs.

Two rigs continued the exploratory fan drilling from the southern end of the 39L drill drive targeting down dip extensions to the Westside system with the holes continued to depth targeting the new Zodiac mineralised system.

In addition, the upper part of the current model of the Zodiac mineralisation was targeted from surface with two diamond rigs completing two holes to 1,600-1,800m depths.

Late in the quarter, the two surface rigs moved to target the up-dip projection of the Zodiac system with an additional two diamond drill rigs scheduled to commence early next quarter to target the southern extents of the Zodiac system.

Paulsens

Underground diamond drilling at Paulsens continued during the quarter on extensional and definition drilling targeting the Voyager 2 West and Voyager 2 North offset from the recently excavated 160 drill drive position. Definition drilling programs also targeted the Miranda and Galileo ore zones from several drill platforms.

Surface diamond drilling was in progress at the Southern Gabbro prospect to test for a parallel mineralised system south of Paulsens, along an interpreted structural break in the Mine Gabbro unit.

REGIONAL EXPLORATION

Regional exploration activity progressed steadily across most sites during the quarter with some weather interruptions.

Jundee

Regional air core drilling programs were completed at the Burton, Sausalito, Manzanita, El Campo and Rey del Norte prospect areas with new anomalies identified at Rey del Norte.

Initial exploration RC drilling programs were completed at the Gourdis West, Neal's Knob, El Pistolero, Cannibal, Limbo, Jundee SE and Plover Bore prospects.

Drilling activities were again hampered with wet weather events restricting access to some areas.

Kanowna

Surface exploration increased in the Kanowna region with RC and/or diamond drilling programs completed at New Caledonia, Golden Eye, Red Eye, Shamrock, Reidy Swamp, Oxford (Acra) Evelyn Doris and Jubilee.

Regional aircore drilling programs were undertaken at Reidy Swamp, Oxford Boomerang Anticline and Koura prospects north of Kanowna Belle Mine. At Reidy Swamp, three parallel gold anomalies associated with NNE-trending porphyry bodies were identified.

EKJV (NST 51%)

EKJV regional exploration for the quarter consisted of surface diamond drilling at Falcon, Papa Bear and Pegasus together with initial aircore drilling at the Montague prospect.

At Papa Bear, RC and diamond drilling tested an anomalous grade trend on the Kurrawang structure generated from previous aircore drilling.

A five-hole diamond drilling program at Falcon South, located 400m west of Pegasus and Drake prospects, targeted extensions to previous economic intercepts at Falcon.

Four underground diamond holes were drilled from Pegasus that have successfully defined the position of two key stratigraphic units within the Pegasus footwall zone.

At the Montague prospect located west of Raleigh, an initial geochemical drilling program was completed as a top-of-fresh geochemical survey over the Raleigh hangingwall stratigraphy immediately south of the deposit.

Kundana (NST 100%)

At Barkers, a single diamond drill hole tested for potential strike continuations of the Barkers and Strzelecki mineralised structures at depth. Assay results are expected in October.

At the Petrichor prospect, located northeast of the Pope John deposit, RC drilling tested historical workings in the K2 footwall stratigraphy intersecting weakly anomalous gold trends above interbedded sedimentary rocks.

A second phase of aircore drilling was completed at the Hummingbird prospect to follow up anomalous gold trends revealed by the initial aircore drilling program.

Paradigm/Carbine

At Paradigm, step-out RC and diamond drilling continued to test the projected southern extension of the Arina Lode adjacent to the existing Paradigm open pit and to the north of the defined Arina Resource.

A six hole RC and diamond drilling program at the Drago prospect tested anomalous gold bearing structures intersected in previous drilling, approximately 800m along strike from the Paradigm deposit. A new geological

model places Drago mineralisation directly below the Lincancunbur Fault, the same structure that hosts Paradigm.

At Zorro, RC drilling commenced at the end of the quarter to follow-up earlier anomalous drill results. The Zorro mineralised trend is highlighted by coincident pathfinder anomalies and displays a similar mineralisation style to that of the adjacent Carbine deposit.

In the greater Paradigm area, a short diamond drilling program commenced at Mironova and Yelena prospects to test positive historical RC drill results located on the possible extensions to the Mishka and Natasha structures.

Carnage

At the Red Wedding prospect, an RC and diamond drilling program targeted encouraging historical drill results and confirmed the position of the Carnage and Zuleika Shear Zones.

North of the Thiel Well open pit, RC drilling at the Italian George prospect tested high-grade gold intercepts in historical AC/RC drill holes. Assay results are pending for both programs.

Acra Joint Venture (NST 25%)

During the quarter, air core and initial RC drilling programs were completed at several prospects within the Acra Joint Venture tenure.

Initial RC drilling programs were completed at Cousin Jack's, Evelyn Doris, North Brilliant and Jubilee prospects intersecting anomalous zones of gold mineralisation.

A reconnaissance aircore drilling program was in progress at the Camel Dam project at the end of the quarter.

Paulsens

At the Merlin prospect, located northwest of Paulsens, RC drilling programs were completed to evaluate the potential of mineralised structures traced by recent and historical soil sampling results.

Drilling intersected several wide zones of pyrite-rich silicified dolomite along strike of significant mapped structures with initial composite assay results for the program have highlighting several zones of low-grade gold mineralisation at shallow depths.

Central Tanami Project (25% NST)

Geological field mapping and sampling programs were completed over the Jims, Galifrey and Kuwait areas of the southern CTP. Geological mapping and sampling was also completed over the Crusade deposit area some 100kms north of the Central Tanami plant site.

Regional aircore drilling commenced over the Cave Hill project area with 58 holes completed for 1,959m drilled. Assays are pending.

Tanami Regional Project (100% NST)

The regional airborne geophysical survey was completed during the quarter. A total of 77,946 line kilometres was flown covering 80% the Tanami and Central Tanami tenements. The increased resolution over areas of historical coverage together with new data over previously unsurveyed areas will greatly assist exploration target generation.

Geological field reconnaissance continued at the Supernova and Kookaburra East prospects to assess anomalies or features of interest identified from the interpretation of airborne magnetic/radiometric geophysical data. Scout aircore drilling programs for both areas are being designed as geophysical interpretations continue.

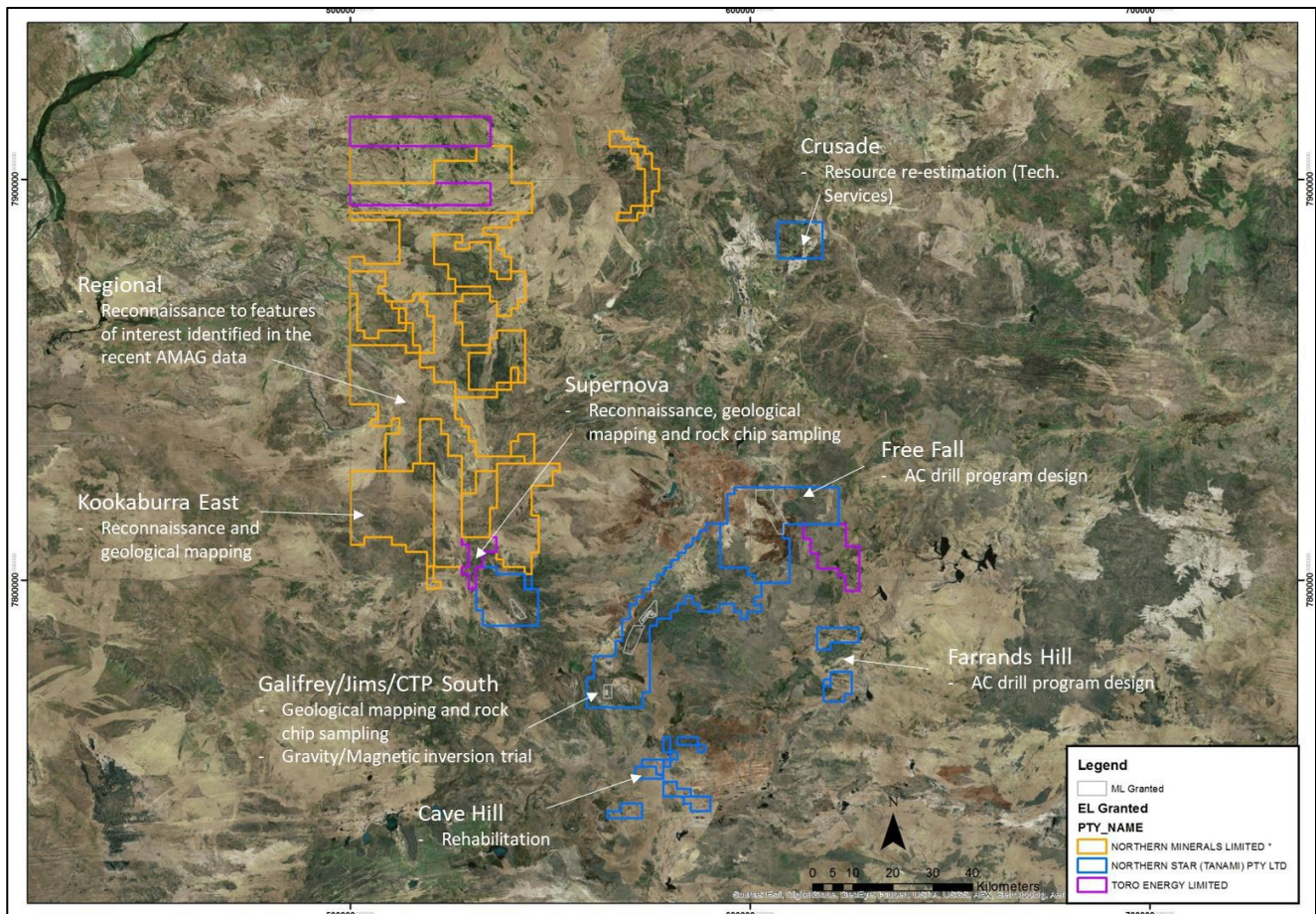


Figure 2 - Exploration activities completed on the Tanami project in September Quarter.

CORPORATE

- Northern Star entered into:
 - a binding conditional sale and purchase agreement with Tanami Gold NL for the acquisition of the Western Tanami Project for A\$4 million in cash (refer TAM ASX Announcement 3 October 2017); and
 - a memorandum of understanding with Poseidon Nickel Limited to explore processing gold ore at Black Swan Operations (refer POS ASX Announcement dated 28 August 2017).
- A fully franked final dividend of six cents per share was declared with a record date of 30 August 2017. Payment of the dividend occurred on 13 September 2017.
- A revised Mineral Resources and Ore Reserves Statement for year ended 30 June 2017 was released on 3 August 2017.
- The Company's 2017 Annual Report and Corporate Governance Statement was released on 22 August 2017, and the Company's Annual General Meeting will be held on Thursday, 16 November 2017.
- In August 2017, the Company elected to voluntarily publish a copy of its 2017 Tax Governance Statement as part of its commitment to tax transparency. This document is accessible on the Company's website.
- During the quarter, Northern Star presented at the annual Diggers and Dealers conference in Kalgoorlie, an East Coast Roadshow marketing the FY2017 Full Year Financial accounts in Sydney and Melbourne, the Deutsche Bank Gold day in Sydney, the annual Denver Gold Conference in Colorado Springs and a Non-Deal Roadshow in North America. Throughout the quarter Northern Star also hosted several investor and analyst groups to site. The Company maintains a proactive presentation calendar to stockbroking firms, institutional and retail investors to promote the Company and its activities.
- The following changes occurred to the issued capital of the Company subsequent to the release of the June 2017 Quarterly Report:
 - 1,334,894 ordinary fully paid shares were issued to 695 eligible employees free of charge on 31 July 2017 in accordance with the 2017 Employee Share Plan and will be held in voluntary escrow for twelve months or until cessation of employment;

QUARTERLY ACTIVITIES REPORT

For the Quarter ended 30 September 2017

- 3,432 ordinary fully paid shares were issued out of the Employee Share Trust to two eligible employees free of charge on 31 July 2017 in accordance with the 2017 Employee Share Plan and will be held in voluntary escrow for twelve months or until cessation of employment;
- 1,294,760 ordinary fully paid shares were issued to 20 holders of FY2015 unlisted employee options on 31 July 2017 following the exercise of 1,711,397 options via cashless conversion and 79,844 options exercised by payment of \$1.2804 per option,
- 62,230 ordinary fully paid shares were released from voluntary escrow on 11 October 2017 in accordance with the Company's 2011 and 2017 Employee Share Plans,
- 92,836 unlisted employee options issued as part of the FY2016 employee long term incentives were cancelled on 11 October 2017 in accordance with the Company's 2012 Employee Share Option Plan No. 3, and
- 35,950 unlisted performance rights issued as part of the FY2017 employee long term incentives were cancelled on 11 October 2017 in accordance with the Company's 2016 Long Term Incentive Plan.

The issued capital of the Company at the date of this report is:

Class of Securities	Issued capital
Fully Paid Ordinary Shares	603,171,969
Unlisted Options (various expiry dates)	789,561
Unlisted Performance Rights	9,541,200

Table 10: Issued Capital

Yours faithfully



BILL BEAMENT
Executive Chairman
Northern Star Resources Limited

Investor Relations Enquiries:

Luke Gleeson
Northern Star Resources Limited
T: +61 8 6188 2103
E: lgleeson@nstrld.com

Media Enquiries:

Paul Armstrong
Read Corporate
T: +61 8 9388 1474
E: paul@readcorporate.com.au

Competent Persons Statements

The information in this announcement that relates to exploration results, data quality and geological interpretations, is based on information compiled by Darren Cooke, a Competent Person who is a Member of the Australian Institute of Geoscientists and a full-time employee of Northern Star Resources Limited. Mr Cooke has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person as defined in the 2012 Edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" for the Company's Jundee, Kanowna and Kundana Project areas. Mr Cooke consents to the inclusion in this announcement of the matters based on this information in the form and context in which it appears.

Forward Looking Statements

Northern Star Resources Limited has prepared this announcement based on information available to it. No representation or warranty, express or implied, is made as to the fairness, accuracy, completeness or correctness of the information, opinions and conclusions contained in this announcement. To the maximum extent permitted by law, none of Northern Star Resources Limited, its directors, employees or agents, advisers, nor any other person accepts any liability, including, without limitation, any liability arising from fault or negligence on the part of any of them or any other person, for any loss arising from the use of this announcement or its contents or otherwise arising in connection with it.

This announcement is not an offer, invitation, solicitation or other recommendation with respect to the subscription for, purchase or sale of any security, and neither this announcement nor anything in it shall form the basis of any contract or commitment whatsoever. This announcement may contain forward looking statements that are subject to risk factors associated with gold exploration, mining and production businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to price fluctuations, actual demand, currency fluctuations, drilling and production results, Reserve estimations, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory changes, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates.

APPENDIX 1 – ADDITIONAL INFORMATION - OPERATIONS

Paulsens Gold Operations

► Safety

There were zero (0) Lost Time Injuries (LTI) during the quarter.

► Underground Production

Mine Development:

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Decline	293m	210m	184m	95m
Level	371m	510m	582m	329m
Strike driving	571m	284m	817m	739m
Total (metres)	1,235m	1,004m	1,583m	1,163m

Table 1: Underground Production – Mine Development

Capital development focussed on advancing the Decline towards the 103mRL level, developing the 103 and 120mRL levels and starting the 660mRL drill drive. Supplementary development was completed in the 726 Level.

Operating development saw the continued development of high grade Voyager 2 Upper Zone ore body mainly on the 154, 137, 120 and 103mRL levels. Additional operating development was completed in the Voyager 1 Lower Zone ore body on the 823, 803, 766, 737 and 726mRL.

Development yielded 34,296 tonnes at an average reconciled grade of 3.4gpt.

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Development ore (t)	27,710	18,522	44,331	34,296
Development grade (gpt)	5.1	5.2	3.5	3.4
Stope ore (t)	55,045	54,709	63,244	65,066
Stope grade (gpt)	6.1	5.3	4.7	4.4
Low grade ore (t)	6,770	1,241	7,691	7,410
Low grade (gpt)	1.7	1.8	1.1	1.6
Total ore (t)	89,525	74,473	115,267	106,772
Total grade (gpt)	5.5	5.2	4.0	3.9
Contained gold (oz)	15,698	15,525	14,944	13,292

t=tonnes, gpt=grams per tonne, oz=ounces

Table 2: Ore Development – Mine Development

Stope production was 65,066 tonnes at 4.4gpt sourced predominately from the Voyager 2 Upper Zone orebody on the 188, 171, 154, 137 & 120mRL levels (60% of stope tonnes). Additional stope tonnes were sourced from the Titan orebody at the 341, 358, 375 & 390mRL levels (21% of tonnes), the Voyager 1 Lower Zone orebody at the 823, 803 & 976mRL levels (11% of tonnes) and from the Cassini ore body at the 1125 & 1110mRL (7% of tonnes).

► Gold Production

117,700 tonnes were milled during the quarter at 3.9gpt and 80% recovery for 11,628oz produced. Mill feed primarily consisted of Voyager 2 Upper Zone, additional sources included Titan, Voyager 1 Lower Zone and Cassini.

Ore stocks at the end of the quarter totalled 3,006oz of gold plus GIC of 1,565oz.

► Gold Sales

11,280oz were sold.

Kanowna Belle Gold Operations

► Safety

There were zero (0) Lost Time Injuries (LTI) during the quarter.

► Underground Production

Mine Development:

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Decline	0m	0m	0m	106m
Level	275m	509m	409m	319m
Strike driving ⁽¹⁾	605m	456m	758m	768m
Total (metres)	880m	965m	1,167m	1,193m

Note (1) includes development through paste-fill

Table 3: Underground Production – Mine Development

QUARTERLY ACTIVITIES REPORT

For the Quarter ended 30 September 2017

Decline and level development has been focussing on further establishing the Velvet ore zone. Continued level and strike development within the remanet mining areas, Blocks, B, C and D to allow continuation of stope extraction.

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Development ore (t)	26,446	18,133	32,187	36,712
Development grade (gpt)	2.6	2.8	3.1	2.3
Stope ore (t)	173,053	169,748	204,187	220,859
Stope grade (gpt)	5.8	5.3	4.0	4.1
Low grade ore (t)	Nil	Nil	Nil	Nil
Low grade (gpt)	Nil	Nil	Nil	Nil
Total ore (t)	199,498	187,881	236,374	257,570
Total grade (gpt)	5.4	5.0	3.8	3.9
Contained gold (oz)	34,632	30,326	29,160	32,035

t=tonnes, gpt=grams per tonne, oz=ounces

Table 4: Underground Production – Ore Production

The continued combination of stoping from multiple areas (blocks) across Kanowna Belle has allowed the operation to optimise the production and ounce profile for the quarter.

► Gold Production

Kanowna Belle milled 278,963 tonnes in the September Quarter at 3.6gpt and 92.0% recovery for 29,405oz produced.

Ore stocks at the end of the quarter totalled 7,831oz of gold.

► Gold Sales

26,683oz were sold.

Millennium Gold Operations

► Introduction

The Millennium Gold Operation is a development project located on Northern Star's 100% owned Kundana tenements. The operation commenced stoping in the September Quarter and continues to meet its milestones to bring the operation in to full production.

► Safety

There were zero (0) Lost Time Injuries (LTI) during the quarter.

► Underground Production

Mine Development:

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Decline	575m	1,044m	1,106m	844m
Level	280m		231m	
Strike driving (incl paste)				729m
Total (metres)	855m	1,044m	1,127m	1,573m

Table 5: Underground Production – Mine Development

The development is now focussing on establishing ore drives whilst continuing to push the decline to open up additional levels and stoping fronts.

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Development ore (t)	Nil	Nil	13,345	48,431
Development grade (gpt)	Nil	Nil	2.4	3.2
Stope ore (t)	Nil	Nil	Nil	453
Stope grade (gpt)	Nil	Nil	Nil	4.7
Low grade ore (t)	Nil	Nil	Nil	Nil
Low grade (gpt)	Nil	Nil	Nil	Nil
Total ore (t)	Nil	Nil	13,345	48,884
Total grade (gpt)	Nil	Nil	2.4	3.2
Contained gold (oz)	Nil	Nil	1,019	5,071

t=tonnes, gpt=grams per tonne, oz=ounces

Table 6: Underground Production – Ore Production

► Gold Production

Millennium Ore was processed at the Kanowna Belle plant with 31,856 tonnes at 2.9gpt at 87.7% for 2,615oz produced.

► Gold Sales

2,615oz were sold.

Kundana Gold JV Operations

► Introduction

The Kundana Gold Operations includes the Rubicon, Hornet, Raleigh and Pegasus deposits. These mines are part of the East Kundana Joint Venture (EKJV) with companies Rand Mining Ltd and Tribune Resources Ltd.

► Safety

There were zero (0) Lost Time Injuries (LTI) during the quarter.

► Underground Production

All mine production physicals associated with the EKJV are reported as 100% of those physicals to better represent overall mine performance.

Mine Development:

	Dec-16 Qtr	Mar-17 Qtr	Jun -17 Qtr	Sep -17 Qtr
Decline	349m	428m	267m	330m
Level	1,543m	1,290m	1,475m	893m
Strike driving (incl paste)	2,503m	2,523m	2,476m	2,397m
Total (metres)	4,395m	4,241m	4,218m	3,620m

Table 7: Underground Production – Mine Development (physicals represent 100% EKJV)

Development has occurred across all capital headings - Pegasus Incline, Pegasus Decline, Rubicon Decline and the Hornet drill drive. Significant strike driving of 2,397m continues to set up and build the operations for continued and future production growth.

Development yielded 124,623 tonnes at an average reconciled grade of 4.8gpt.

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Development ore (t)	132,326	134,031	135,356	124,623
Development grade (gpt)	4.1	4.4	4.3	4.8
Stope ore (t)	120,487	125,611	146,862	154,806
Stope grade (gpt)	9.5	9.2	9.2	7.3
Low grade ore (t)	NA	NA	NA	NA
Low grade (gpt)	NA	NA	NA	NA
Total ore (t)	252,813	259,642	282,218	279,429
Total grade (gpt)	6.7	6.7	6.9	6.2
Contained gold (oz)	54,157	56,097	62,230	55,323

t=tonnes, gpt=grams per tonne, oz=ounces

Table 8: Underground Production – Ore production (physicals represent 100% EKJV)

The focus on stope ore tonnes continues Northern Star's emphasis on bringing higher grade tonnes on line.

► Gold Production

EKJV ore that was milled in September Quarter (NST share) was 104,974 tonnes at 6.9gpt and 95.5% recovery for 22,303 gold ounces.

Ore stocks at the end of the quarter (NST share) totalled 14,573oz of gold.

► Gold Sales

22,303oz were sold (NST share).

Jundee Gold Operations

► Safety

There were zero (0) Lost Time Injuries (LTI) during the quarter.

► Underground Production

Mine Development:

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Decline	1,638	558	742	648
Level	814	767	661	1036
Operating	2,630	2,890	2,741	2,614
Total (metres)	5,082	4,215	4,144	4,298

Table 9: Underground Production – Mine Development

Decline development continued across multiple mining fronts during the September Quarter, including lower Gateway, Deakin, Revelation, Armada and Upper Wilson. Level development focussed on the continued progress of two new mining areas, Armada and Revelation.

QUARTERLY ACTIVITIES REPORT

For the Quarter ended 30 September 2017

Operating development remained consistent with previous quarters, undertaken across all mining areas. Ore drive development continued in the recently started Armada mining area, containing multiple ore zones of varying thickness.

Total of 2,614 operating metres were completed, yielding 127,134 tonnes at an average grade of 3.9gpt.

	Dec-16 Qtr	Mar-17 Qtr	Jun-17 Qtr	Sep-17 Qtr
Development ore (t)	167,831	139,647	120,110	127,134
Development grade (gpt)	3.5	3.1	2.5	3.9
Stope ore (t)	223,743	216,865	284,954	280,673
Stope grade (gpt)	5.6	6.0	9.0	6.7
Total ore (t)	391,574	356,513	405,064	407,807
Total grade (gpt)	4.7	4.8	7.1	5.8
Contained gold (oz)	59,527	55,438	92,376	76,326

t=tonnes, gpt=grams per tonne, oz=ounces

Table 10: Underground Production – Ore production

Stoping ore during the September Quarter was sourced from high grade, narrow vein stoping panels, at a rate of 90,000 tonnes per month, for 280,673 tonnes at 6.7gpt. Mining fronts included Gateway, Lower Wilson, Upper Nimary, Lower West Side North and West Side South.

► Gold Production

Jundee ore milled in the September Quarter was 408,067 tonnes at 6.1gpt and 90.6% recovery for 72,471oz.

A blend of 50% crushed material was maintained throughout the quarter, which along with further operational improvements allowed for sustained milling rates. Construction of the permanent secondary crushing circuit was completed in the last week of September, allowing for inline crushing of all material down to 20mm. Work is ongoing to optimise mill set point targets and control systems with Manta Controls.

Ore stocks at the end of the quarter totalled 40,270oz of gold.

► Gold Sales

75,131oz were sold.