



**Annual Work Programme  
July 2023 – June 2024**

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## Approvals

OGC Designation	Name	Designation	Signature	Date
Superintendent-Environment	Mark Burroughs	Mr		June 2023

## Revision History

Date	Revision No.	Issued for	By
June 2015		Annual Review plus addendum dated 16 December 2015 and subsequent addendum dated 22 April 2016	Gael Hurley
June 2016	001	Annual Review	Kathy Mason
June 2017	002	Annual Review	Mark Burroughs
June 2018	003	Annual Review	Mark Burroughs
June 2019	004	Annual Review	Cassie Craig
December 2019	004	Addendum – Project Martha	Cassie Craig
June 2020	005	Annual Review	Mark Burroughs
June 2021	006	Annual Review	Cassie Craig
June 2022	007	Annual Review	Kristin Gillard
June 2023	008	Annual Review	Jenna Powell

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## **1 INTRODUCTION AND PURPOSE**

OGNZL is required by its Mining Licence (now incorporated into the district plan) and consent conditions to submit an Annual Work Programme. The sections below detail the relevant conditions.

### **1.1 Favona, Trio, Correnso and SUPA Projects**

Mining Permit 41 808 Condition 3 requires an Annual Work Statement (Condition 3):

- “(a) The permit holder is required to submit to the Chief Executive before commencing work and within 30 days following the anniversary of the grant of this permit in each year, or at such other time as agreed by the Chief Executive, a proposed Annual Work Statement for written acceptance.*
- (b) The proposed Annual Work Statement shall detail what mining operations are proposed to be undertaken during the forthcoming twelve months.*
- (c) If no mining activities, or if pre-development activities only, are proposed during the forthcoming twelve months the permit holder shall give reasons for this in the proposed Annual Work Statement.*
- (d) Where mining activities are proposed the proposed Annual Work Statement shall be accompanied by a mine plan and, where applicable, shall provide details of the quantity and quality of ore to be processed, the mining methods to be used, the anticipated location of mining, the extent and direction of mining, the estimated period of mine operation and the estimated remaining recoverable reserves.*
- (e) If requested the permit holder shall supply further information on the work proposed for the forthcoming twelve months.*
- (f) If requested the permit holder shall provide a modified proposed Annual Work Statement and/or mine plan for written acceptance.*
- (g) The permit holder shall make all reasonable efforts to comply with the current accepted Annual Work Statement and mine plan (where applicable) which may include modifications to the initially accepted Annual Work Statement and mine plan.”*

The Correnso Underground Mine conditions of consent (LUSE-202.2012) require the completion of the Annual Work Programme as follows:

- “5. The consent holder shall, within 1 year of the date of notice given under Condition 4 and every year thereafter, prepare and submit to the Council for information purposes an Annual Work Programme for the following year’s work.*
- 6. The Annual Work Programme shall, amongst other matters:*
  - (a) Clearly demonstrate that all proposed workings are within CEPPA; and*
  - (b) Set out the timing and intended location of proposed extraction within the ore bodies.”*

### **1.2 Project Martha**

In February 2019, consents were granted for Project Martha. Schedule One of the Common conditions, Condition 1 states:

## *“ANNUAL WORK PROGRAMME*

1. *The consent holder shall within six months of the date of commencement of this consent, and on the anniversary of that date every year thereafter, or at any other date approved by the Council in writing, provide to the Hauraki District Council and the Waikato Regional Council (“the Councils”) an Annual Work Programme for the following year (for information purposes). The Annual Work Programme shall include:*
  - a. *Mining activities proposed for the following year;*
  - b. *A description of the proposed sequencing of works and the environmental procedures to be adopted during the works; and*
  - c. *The proposed progressive rehabilitation and revegetation of active areas of the mine site.”*

## **2 MARTHA OPEN PIT**

Following a slip on the North Wall of the Martha open pit in early April 2015, Waihi Gold Mining Company Ltd (the consent holder at the time) suspended mining activities in the open pit to ensure workers were not at risk and to allow for the evaluation of options for possibly resuming safe production from Martha.

The Company’s current focus with regard to the Martha Pit is to continue to monitor any further movement on the north wall, keep residents in the vicinity informed of what is happening and identify and assess options for future mining and rehabilitation of the area.

### **2.1 Annual Work Plan**

The consent conditions and Mining Licence for the Extended Project require an Annual Work Programme which outlines the anticipated activities to be performed during the following year and the management systems under which those activities will be undertaken. In addition to assessing environmental effects, this document has been prepared to fulfil the requirements of the Annual Work Programme for any work activities that may be undertaken.

No open pit production mining activities are currently proposed for the 2023/24 period. With the north wall failure.

The Annual Work Programme for 2023/2024 includes:

- Continued slope monitoring of the of Martha Open Pit including the north wall and surrounding areas.
- Slope and surface drainage works including scour protection works in various locations as part of general maintenance.
- EDW\_700 FAD portal slope protection works
- EDW\_700 FAD waste material regrooming
- Lower Western Ramp rockfall bunding and drainage diversion works
- Pit Floor drainage control works
- Slope Prism monitoring maintenance.

Although mining within the pit will not be undertaken in the coming year, the obligations and procedures associated with an active mine site remain in place. OGNZL continues to be responsible for the site.

## **2.2 Access**

Although the site work is in abeyance, access to the pit will remain to be via the mine entrance off Kenny Street. Limited staff access will continue from the Moresby Ave Office car park. Access into the pit from the underground is now possible via a portal near the bottom of the pit and is generally limited.

## **2.3 Surface Water Management**

Surface runoff from around the pit will continue to be channelled to the historical underground workings via drainage systems where access is available.

## **2.4 Pit Geotechnical Monitoring**

As part general slope stability and ground deformation monitoring geotechnical monitoring continues to be carried out and includes:

- Inclinometer monitoring
- Piezometer monitoring
- Precise pillar levelling and settlement markers
- Realtime Radar monitoring
- Robotic total station and prism monitoring
- LiDAR Scanning and cloud compare monitoring.

## **2.5 Rehabilitation – Martha Pit**

Regular maintenance of the pit rim walkway, (including selected re-gravelling, signage, planting, maintenance, and weeding) will continue to be carried out during the period covered by this AWP.

Proposed progressive rehabilitation and revegetation within the coming year will include:

- Progressive replacement of weed tree species in the pit screening zones with more desirable (generally native) species
- Continuation of native vegetation trials as an ongoing process to establish naturally regenerating native species
- Ongoing weed monitoring and maintenance of the noise bunds, workshop grounds and pit walls above the final pit lake level
- Additional weed control below the final pit lake level to prevent incursions of weed species into revegetated areas.

No new areas of planting are proposed around the pit in the coming year, however, minor opportune plantings around the pit and maintenance of existing areas will continue.

## **2.6 Noise Control**

OGNZL will continue to monitor operational noise levels on an as required basis and respond to any complaints associated with open pit operations in accordance with established procedures that are included in the site Noise Management Plan.

### **3 PROCESS PLANT**

#### **3.1 Stockpile Development**

The ore stockpile area will be maintained, and the stockpile will be added to and used as per production requirements.

#### **3.2 Trash, Recycling**

Used wooden boxes from cyanide transport will continue to be disposed of by burning. Scrap steel and other items will be sold or refurbished and recycled.

#### **3.3 Ore Processing**

Mill throughput will increase steadily between July 2023 and June 2024 and is expected to be approximately 545,000 tonnes for the period, all from the underground mines.

The capacity of the water treatment plant (WTP) will continue to be up to 26,000m<sup>3</sup>/day. Throughput rates through the WTP will be dependent upon rainfall and required dewatering levels for safe mining.

#### **3.4 Planting**

No planting is planned in this area in 2023-2024.

### **4 WASTE DISPOSAL AREA**

As noted under Section 2 and as a result of the slip on the North Wall, production mining within the open pit has temporarily ceased.

During 2023/24, works around the waste disposal area will be general site maintenance.

#### **4.1 Access**

Access will be via Baxter Road and perimeter road.

#### **4.2 Power Supply**

Power will be reticulated from the supply point at the Process Plant. Back up diesel generators are no longer on site for use during peak power use periods.

#### **4.3 Potable Water**

Potable water will be drawn from the Council supply in Moore Street.

#### **4.4 Raw Water**

Supernatant water from the decommissioned TSF2 tailings pond or collection pond S1 will be used for dust suppression as appropriate.

#### **4.5 Surface Water Management**

Runoff will be intercepted and directed to either the collection ponds, or silt ponds as appropriate. Site water management is described in more detail in the Water Management Plan. Where necessary to maintain sufficient live storage, silt from the ponds will be removed to the tailings pond by conventional truck/excavator methods or pumps and pipelines and other possible equipment.

#### **4.6 Limestone Addition**

Lime will continue to be applied monthly (or as required by test results) by tractor and spreader to the top of the TSFs and stockpile areas to ensure that the waste rock slurry pH complies with consent conditions.

#### **4.7 Rehabilitation**

The primary focus for the 2023/2024 year will continue to be on maintenance of existing plantings and invasive weed control.

No significant new areas of rehabilitation planting are planned for the coming year. Initial site works and enhancement planting is planned for an OGNZL owned property on Golden Valley Road, as required by conditions of the Overseas Investment Office approval to purchase the property.

Maintenance of riparian and embankment plantings (including fence maintenance, weed control on all land and release spraying of younger plantings) will continue to be carried out.

### **5 UNDERGROUND MINING**

For ease of reading this Annual Work Programme (AWP) the underground mine has been broken into two sections; the small amounts of work that are still being carried out in Correnso and the activities being carried out in the Martha Underground area (referred to as “MUG”).

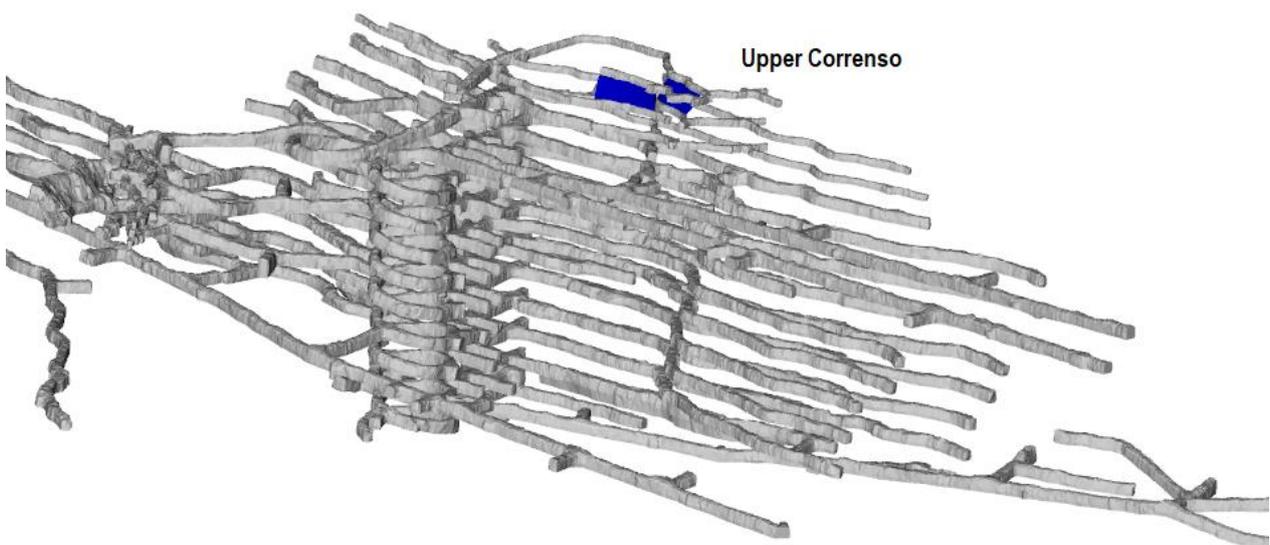
#### **5.1 Correnso Production**

There is only a small amount of the Correnso orebody remaining for back filling. No development is planned during the period covered by this AWP and only a small amount of back filling may take place at the top of the orebody where the development is already complete. No development or production is planned to take place in the orebodies under the Slevin Undergoing Project Area (SUPA) that is connected to the existing mine development from the Correnso side. Figure 1 shows the Correnso workings to date and planned workings within CEPPA in plan view. In Figure 2, the existing development is shown in grey and the stope voids to be filled in blue.



**Figure 1: Current and planned workings within CEPPA.**

Note: Mining to the west and south are part of Trio, SUPA and Project Martha.



**Figure 2: Planned stope backfilling in upper Correnso.**

## **5.2 MUG Development**

Development within the MUG area will be spread over the entire project area and will focus on developing the declines deeper in the Empire, Empire West and Edward mine areas, as well as establishing ore drives throughout all areas. The methods used in the development cycle involve the same drilling, blasting and mining methods previously used to develop the existing infrastructure within the MUG area.

Waste rock produced over the upcoming period will either be trucked to surface and placed on the Polishing Pond Stockpile or placed as backfill in MUG or Correnso production stopes.

Approximately 440,000 tonnes of waste rock will be produced during this period and 700,000 tonnes of stope backfilling into stopes and historical voids will be completed resulting in a reduction of the Polishing Pond Stockpile of 260,000 tonnes.

## **5.3 MUG Production**

Production continues in multiple areas throughout the period as access is developed and ore drives established. Production will occur in the upper parts of Edward, Royal West, Royal East, Empire West and Rex. It is planned that approximately 545,000 tonnes of ore (combined ore development and production) will be mined during the period covered by this AWP. The ore will be stockpiled on the existing ROM pad adjacent to the mill before processing.

Figure 3 shows the general layout of the mine design over the life of mine in plan view. Figure 4 to 7 show the works planned during the period covered by this AWP. In Figure 4 to 7, grey is the existing development, green the planned development and blue the planned stoping and filling of historical voids. All figures are an isometric view looking towards the northwest, with the current open pit shown.

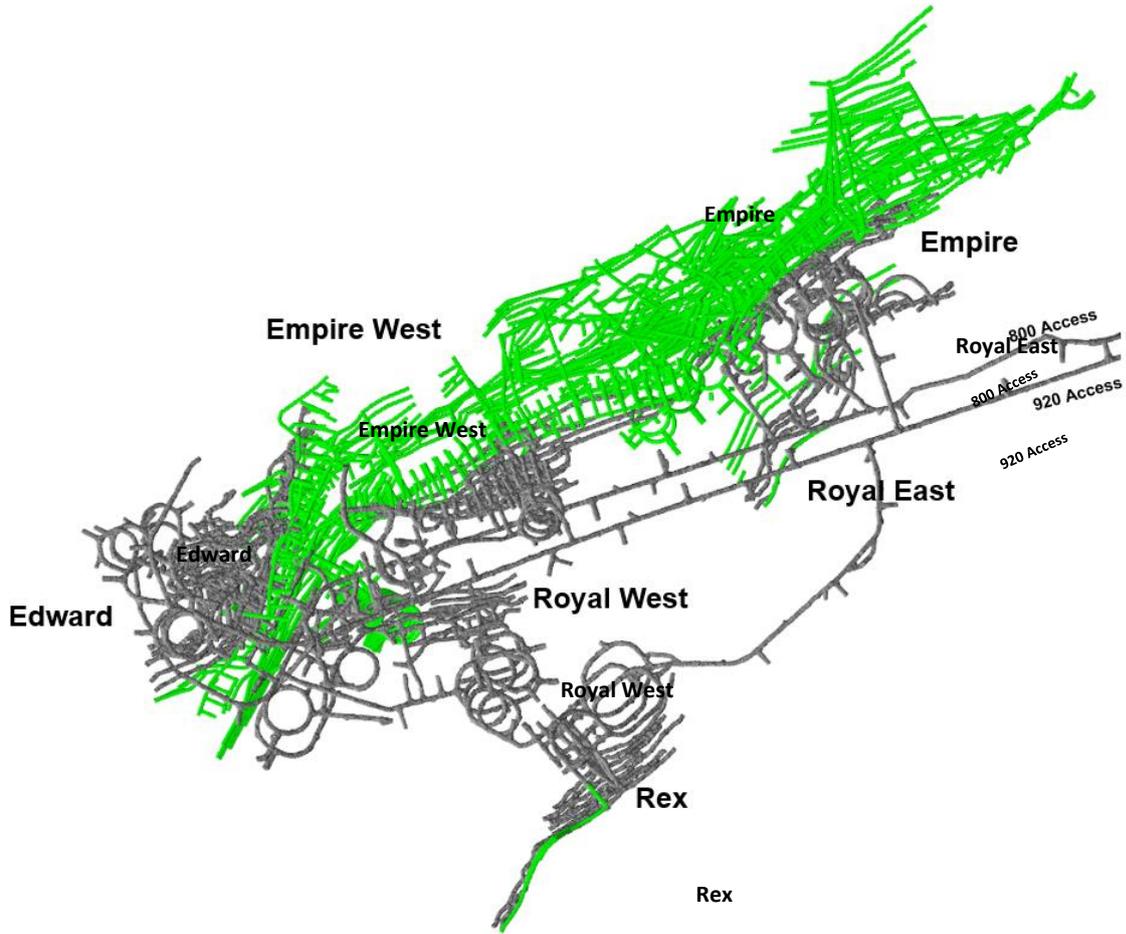


Figure 3: General layout of MUG in plan view.

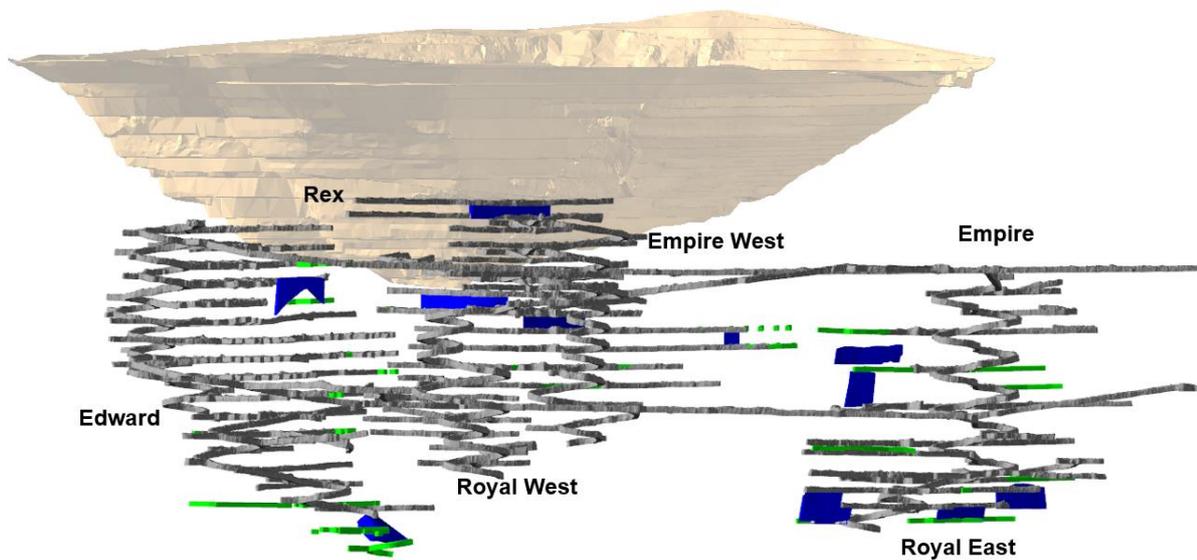


Figure 4: September 2023.

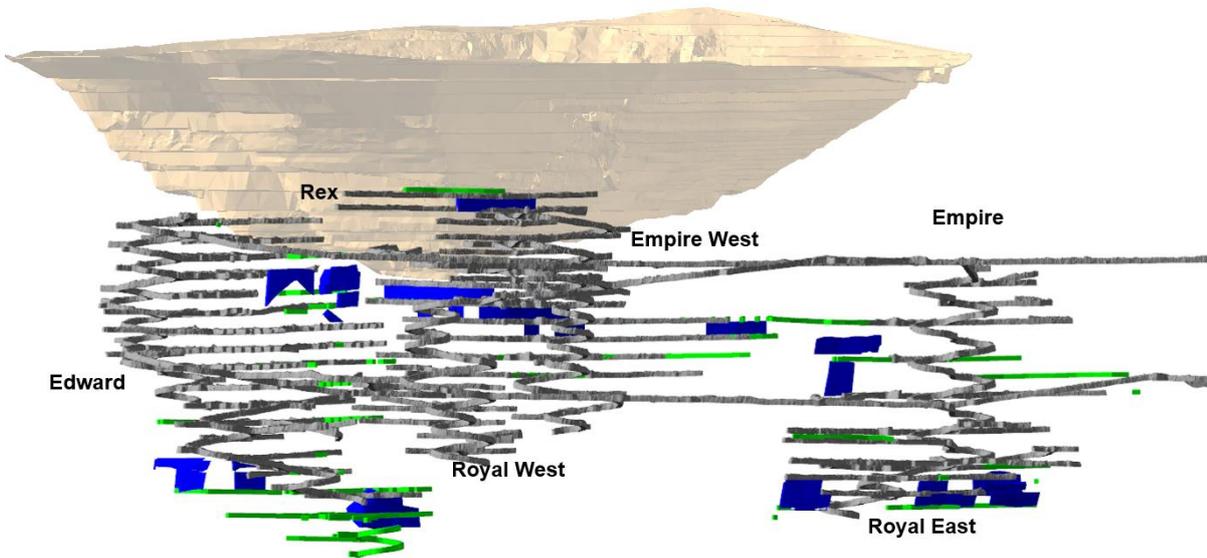


Figure 5: December 2023.

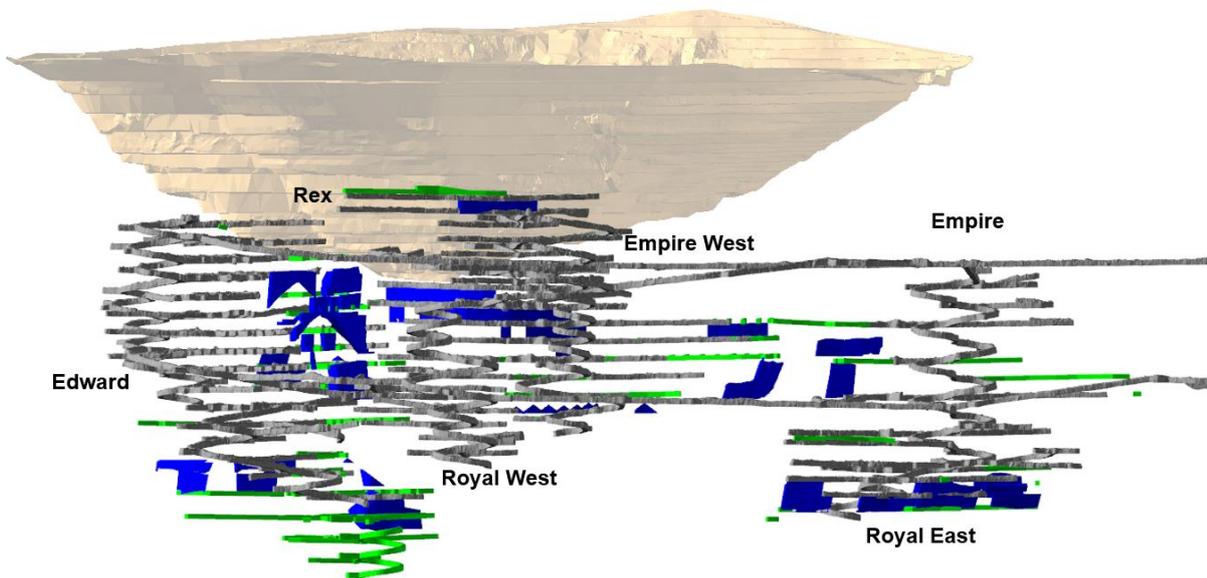


Figure 6: March 2024.

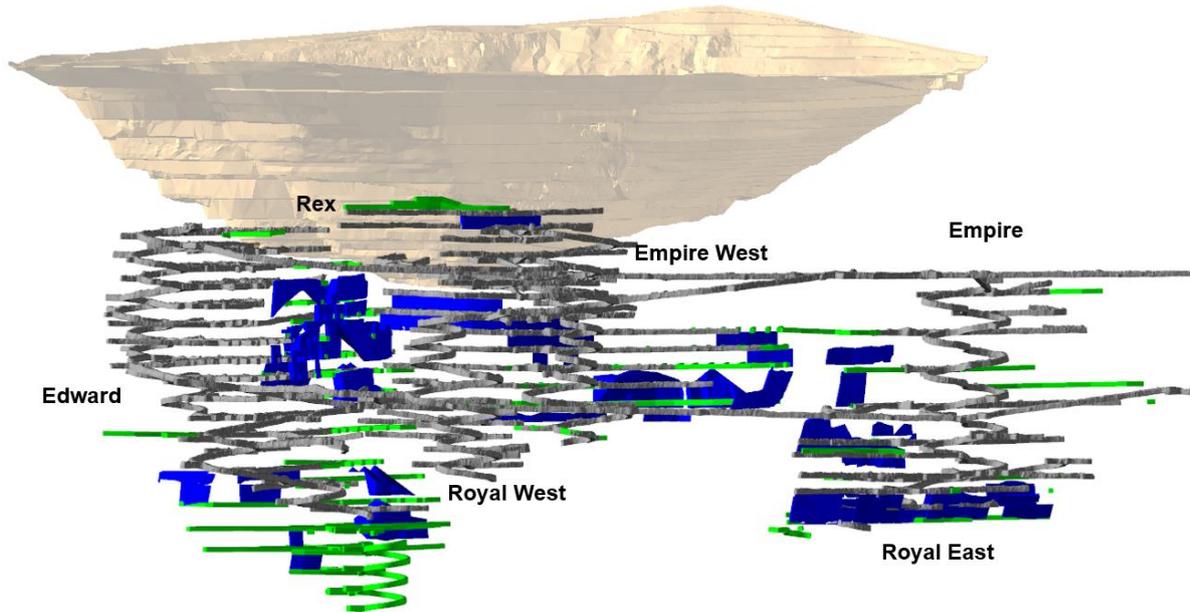


Figure 7: June 2023.

## 5.4 Water Management

The underground mine requires continuous dewatering to maintain the water level below working areas. All dewatering is carried out from the underground mine and comprises a series of pumps that work in series to pump water directly to the water treatment plant at the mill.

The current ground water level within the mine is at approximately 670 mRL. A series of borehole pumps were commissioned in 2020 to lower the water table to 600 mRL. The borehole pumps are designed to draw down the water table at a rate of around 40 vertical metres per year, which equates to an approximate pumping rate of up to 15,000 m<sup>3</sup> per day.

Treated water is used as service water underground (e.g. for drilling), because the water pumped from the mine has a relatively high sediment load which makes it unsuitable for use in the machines underground.

## 5.5 Quantity of Ore to be Mined During the Year

It is forecast that approximately 540,000 tonnes of ore will be mined from underground from 1 July 2023 to 30 June 2024.

## 5.6 Mining Methods

The majority of the mining over the period utilises variations on long hole benching mining methods such as Modified Avoca with the remainder utilising Overhand Cut and Fill methods.

A small amount of production will also be completed in remnant areas with historical fill and skins on historical stopes being extracted. The fill material will be extracted in a top-down primary secondary method with CRF fill, whilst the skins will be extracted with an Avoca method once the historical voids are filled with CRF.

For the period covered by this AWP, underground blast monitors will be positioned at the following locations:

#### Correnso

47 Gladstone Road, 29 Gladstone Road, 14A Gladstone Road, 68 Barry Road, 28 Roycroft Street, 22 Slevin Street, and Smith Street.

#### Trio

Boyd Road, Moore Street, Clarke Street, Coreshed (Barry Road), Scout Hall, Trio Vent Shaft.

#### Project Martha

70 Moresby Ave, 144 Seddon St, 12 Haszard St, Pitt St, Islington Tce, 77 Bulltown Rd, 35 Grey St, 1 Gilmour St, 126 Kenny St, 104 Kenny St, 75 Kenny St (and 28 Roycroft Street and 22 Slevin Street, shared with the Correnso network).

### **5.7 Extent and Direction of Mining**

The remaining mining in Correnso will extend the upper limit of this orebody to approximately 960 mRL.

During the period covered by this AWP, MUG development will occur vertically between the levels of 1010 mRL and 585 mRL, and laterally across almost the entire MUG Project Area.

### **5.8 Underground Equipment**

The vehicle fleet for the underground operation for the 2023/2024 period includes:

- 5 x 40t haul trucks
- 6 x drilling, scaling and rock bolting jumbos
- 6 x load haul dump units (LHDs)
- 1 x narrow vein load haul dump unit
- 1 x grader
- 4 x integrated tool carriers
- 2 x low profile explosives carriers
- 2 x underground concrete agitators
- 1 x low profile shotcrete machine
- 3 x solo long hole drills
- 1 x cable bolter
- 25 x light vehicles
- 1 x water truck.

The drilling equipment uses electrical power for drilling. Trucks, LHDs and service vehicles use diesel power.

## **6 EXPLORATION AND FUTURE DEVELOPMENT**

In the coming year OGNZL will continue near mine exploration within the Favona Mining Permit 41 808 targeting extensions of the Martha orebodies and exploring for undiscovered mineralised veins within the permit areas.

Major resource definition and conversion drilling programmes continue on the Martha vein system with approximately 18 km of drilling planned in 2023 and a further 15 km going forward into 2024.

## **7 ADMINISTRATION**

### **7.1 Workforce**

It is anticipated that the core workforce on site will be approximately 450 including:

- ~350 OceanaGold personnel
- Up to approximately 100 contractors including Alton Drilling and Mr Alarm.

### **7.2 Integrated Management System**

A Health, Safety, Environment and EASP (External Affairs and Social Performance) Integrated Management System encompassing operational, process quality, safety, community, and environment is maintained.

The site is committed to ongoing legal compliance activities, continuous improvement, and stakeholder engagement. The Management System ensures that risk assessment, improvement programmes, monitoring, maintenance, and reviews are incorporated within an overall framework as an integral part of mining operations.

### **7.3 Company Liaison Officer**

The position of Company Liaison Officer is required under the conditions of the varied Mining Licence and the land use and resource consents for the Martha, Favona, Trio, Correnso and SUPA mines. Project Martha has the same requirement. The Company Liaison Officer carries out public consultation for all aspects of OGNZL's activities and responds to complaints and concerns by stakeholders as they arise.

Hauraki District Council and Waikato Regional Council staff are kept informed of upcoming activities through regular telephone updates and meetings with company staff.

### **7.4 Amenity Effect Programme**

The Amenity Effect Programme (AEP) was developed as a voluntary initiative by Waihi Gold Company Ltd out of their recognition of mine-related effects on residents living near different mining activities. However, AEP payments have now been incorporated into the Correnso Underground Mine and the Project Martha Consent conditions. Under the AEP, qualifying residents receive regular payments commensurate with the level of vibration measured or modelled at the residence.

### **7.5 Peer Reviewers**

Liaison with the peer reviewers will continue during the period in conjunction with the conditions of the Project Martha and TSF related consents.

## 8 MARTHA MINE CLOSURE

The conditions of the Project Martha consent require the preparation and annual review of a Rehabilitation and Closure Plan. Within Part A, the Plan contains detailed information regarding planned closure activities for the coming year. The Rehabilitation and Closure Plan is to be updated annually.

In summary, during the coming year the following activities are being planned:

- Rehabilitation plantings and weed control as described in section 2.5
- Continued maintenance of walkways and adjacent areas.

Around the waste disposal area these activities include embankment pasture monitoring, soil testing, maintenance and improvement, the topsoil inventory and stockpile management.

## Compliance Table

Mining Permit 41 808 Condition 3 requires an Annual Work Statement (Condition 3):	Location in Document
<i>“(a) The permit holder is required to submit to the Chief Executive before commencing work and within 30 days following the anniversary of the grant of this permit in each year, or at such other time as agreed by the Chief Executive, a proposed Annual Work Statement for written acceptance.</i>	Whole document
<i>(b) The proposed Annual Work Statement shall detail what mining operations are proposed to be undertaken during the forthcoming twelve months.</i>	Throughout document
<i>(c) If no mining activities, or if pre-development activities only, are proposed during the forthcoming twelve months the permit holder shall give reasons for this in the proposed Annual Work Statement.</i>	Section 2

(d)	<i>Where mining activities are proposed the proposed Annual Work Statement shall be accompanied by a mine plan and, where applicable, shall provide details of the quantity and quality of ore to be processed, the mining methods to be used, the anticipated location of mining, the extent and direction of mining, the estimated period of mine operation and the estimated remaining recoverable reserves.</i>	Section 5
(e)	<i>If requested the permit holder shall supply further information on the work proposed for the forthcoming twelve months.</i>	Not requested
(f)	<i>If requested the permit holder shall provide a modified proposed Annual Work Statement and/or mine plan for written acceptance.</i>	Not requested
(g)	<i>The permit holder shall make all reasonable efforts to comply with the current accepted Annual Work Statement and mine plan (where applicable) which may include modifications to the initially accepted Annual Work Statement and mine plan.”</i>	Activities to be completed as per this AWP.
<b>Correnso Underground Mine conditions of consent (LUSE-202.2012) require the completion of the AWP as follows:</b>		<b>Location in Document</b>
“5.	<i>The consent holder shall, within 1 year of the date of notice given under Condition 4 and every year thereafter, prepare and submit to the Council for information purposes an Annual Work Programme for the following year’s work.</i>	Whole document
6.	<i>The Annual Work Programme shall, amongst other matters:</i>	Section 5.1, Figure 1
	<i>(a) Clearly demonstrate that all proposed workings are within CEPPA; and</i>	
	<i>(b) Set out the timing and intended location of proposed extraction within the ore bodies.”</i>	Section 5
<b>Project Martha Schedule One of the Common conditions, Condition 1 states:</b>		<b>Location in Document</b>
	<b>“ANNUAL WORK PROGRAMME</b>	Whole document
	<i>1. The consent holder shall within six months of the date of commencement of this consent, and on the anniversary of that date every year thereafter, or at any other date approved by the Council in writing, provide to the Hauraki District Council and the Waikato Regional Council (“the Councils”) an Annual Work Programme for the following year (for information purposes). The Annual Work Programme shall include:</i>	
	<i>a. Mining activities proposed for the following year;</i>	Throughout document

<p><i>b. A description of the proposed sequencing of works and the environmental procedures to be adopted during the works; and</i></p>	<p>Section 5</p>
<p><i>c. The proposed progressive rehabilitation and revegetation of active areas of the mine site.”</i></p>	<p>Sections 2.5, 3.4, 4.7 &amp; Section 8</p>