



# Operational Noise Management Plan

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## Approval Table

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	May 2010			Amalgamation of plans	May 2010
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	Nov 2013			Incorporation of East Layback	Nov 2013
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6.0	Jan 2026	All	All	Management Plan split into three separate plans to address operational, construction and helicopter noise as recommended by HDC	Jan 2026

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# OPERATIONAL NOISE MANAGEMENT PLAN

## 1. PURPOSE

This document describes the systems and procedures for noise management at the OceanaGold New Zealand Ltd (OGNZL) Waihi Operations. These relate to the Martha Open Pit, Underground Mines, the Tailing Storage Facilities, and the Waihi North Project (Areas 1, 2, & 5), and ensure that all operations are effectively monitored and managed, and that there are no objectionable adverse effects relating to noise.

Noise conditions from the various mining activities are specifically covered by the Resource Consents listed in section 3.

This Operational Noise Management Plan ('Plan') is prepared to meet the relevant conditions of the Mining Licence (ML) 32-2388, Hauraki District Council (HDC) Land Use Consent (LUC) 97/98 - 105 for the Extended Martha Mining Area (EMMA), HDC LUC 85.050.326.E (Favona), HDC LUC RC-15774 (Trio), HDC LUC RC-202.2112 (Correnso), HDC LUC 202.2017.664.001 for the Martha Drill Drive Project (MDDP), HDC LUC 202.2018.857.001 for Project Martha (Martha), HDC LUC 202.2018.00000812.001 for Tailings Storage Facility 2 (TSF2) Crest Raise Preparation Works, HDC LUC 202.2021.00001466.001 for the Tailings Storage Facility 1A (TSF1A) Crest Raise, and the HDC LUC for the Waihi North Project (WNP).

This plan also complies with relevant noise standards in the HDC Operative District Plan and avoids or mitigates unreasonable noise as required by s16 of the Resource Management Act 1991.

## 2. SCOPE

Early plans focused on the amalgamation of relevant plans regarding Martha Mine and the Underground Mines, subsequent reviews have seen the incorporation of the East Layback, MDDP, Project Martha consents as well as the TSF Crest Raise works.

This latest revision adds the Waihi North Project (Areas 1, 2, & 5) and is intended to cover at least the first year of activity. Subsequent years of Waihi North Project activities, including the Gladstone Open Pit, will be added to future versions of this Plan. WNP consents require a Construction Noise Management Plan (CNMP), an Operational Noise Management Plan (ONMP), and a Helicopter Noise Management Plan (HNMP). Separate management plans have been prepared to cover construction noise and helicopter noise.

The relevant conditions of the Noise Conditions Consents for the Mining license, Martha Mine Extended Project, Favona, Trio, Correnso, Martha Drill Drive Project, Project Martha, TSF2 and 1A Crest Raise Works, Stability Cutback and the Waihi North Project are attached as Appendix 1 - 11. While there are some differences in the consent conditions between the mining operations, fundamentally the conditions require the following:

- Comply with the relevant noise limits for the area and activity
- Representative noise levels shall be measured and assessed in accordance with the methods specified in the conditions
- Noise shall be measured in accordance with the provisions of New Zealand Standard *NZS6801:2008 Acoustics – Measurement of Environmental Sound* and assessed in accordance with the provisions of New Zealand Standard *NZS 6802:2008 Acoustics – Environmental Noise*.
- Provide a summary report to Hauraki District council (HDC) at the end of each 3-month period
- Development of a Noise Management Plan to detail noise management objectives and the measures to be taken to meet those objectives and noise monitoring programmes.

- Complaints management

This Plan is also prepared to comply with OceanaGold's Environmental Performance Standard (Appendix 12), which also emphasises compliance with legal requirements.

### 3. REFERENCE AND COMPLIANCE

Level	Source
Legislation or Guidelines	<ul style="list-style-type: none"><li>• Resource Management Act 1991</li></ul>
	<ul style="list-style-type: none"><li>• NZS6801:2008 Acoustics – Measurement of Environmental Sound</li><li>• NZS 6802:2008 Acoustics – Environmental Noise.</li><li>• </li></ul>
	<ul style="list-style-type: none"><li>• Refer to section 1 for full list of relevant consents and approvals.</li></ul>
	<ul style="list-style-type: none"><li>• </li></ul>
Corporate	<ul style="list-style-type: none"><li>• OGC-450-STD-019 - Environmental Performance Standards</li></ul>
	<ul style="list-style-type: none"><li>• OGC-450-GUI-005 - Risk Management Guidelines</li></ul>
Site	<ul style="list-style-type: none"><li>• WAI-200-PRO-040 – Sound Monitoring</li></ul>
	<ul style="list-style-type: none"><li>• WAI-800-PRO-007 - Concerns, Complaints and Grievances Procedure</li></ul>

### 4. RISK ASSESSMENT

The site risk register is to be reviewed after all significant incidents. Formal Risk Assessments (FRA) are to be undertaken where changes to this document affect safety of personnel. Risk Assessments are to be conducted according to OGC-450-GUI-005 Risk Management Guidelines.

### 5. MARTHA PIT

#### 5.1 Background

Mining in recent years in the Martha Pit has seen several cutbacks to improve the stability of the walls. While these have resulted in improvements, there are ongoing stability issues that remain to be mitigated. April 2010 saw the beginning of the Martha East Layback. The footprint of the cutback remained entirely within either the existing mining licence or the Extended Martha Mining Area (EMMA) boundaries and noise management was in accordance with those authorities.

In April 2015, a slip on the North Wall caused the suspension of mining. Mining ceased for the remainder of 2015 as investigations were undertaken to evaluate the options, safety, and viability of re-entry. Mining began again in January 2016 with a narrow switchback entry from the western wall of the pit (outside the slip failure zone). This was curtailed in April 2016 when further instability in the north wall precluded more work. Work resumed with a further cutback of the north wall in January 2017, with interim unloading of the highwall completed in August 2017.

Project Martha seeks to make comprehensive improvements to the pit wall stability. Mining will extend outside the EMMA boundary, requiring a modification to the Bulltown Rd/Cambridge Rd corner, and will push back the north wall to create a more stable batter. In addition, the haul road will be reinstated and access to the bottom of the pit will be regained, allowing access to remaining ore in the pit floor and secondary/emergency access to the underground portal within the pit.

For an early pit cutback (the Southern Stability Cutback), OGNZL and HDC entered a Memorandum of Understanding (MoU) to provide a framework within which HDC and OGNZL agree appropriate mitigation responses to nuisance effects associated with the stability cutback activities. In 2016, the MoU was revised for the North-wall Stability Cutback (Appendix 8). OGNZL recognises the value of the agreements that were entered, and the principles of the MoU will be respected for future in-pit mining operations.

## 5.2 Martha Pit Consent Conditions

The conditions of the ML are included in this Plan as Appendix 1. The HDC LUC 97/98-105 and LUC 202.2018.857.001 conditions relating to noise are included as Appendices 2 and 7 respectively.

In summary these conditions require OGNZL to comply with the following:

- The appointment of a Company Liaison Officer (CLO) (refer ML 7Ba-c, EMMA 3.4a-c, Martha Sch. One (2)).
- The provision of all reasonable costs associated with the appointment and support of a Regional/Local Council Liaison Officer to be employed during construction activities (refer ML 7Bd-g, EMMA 3.4d- g).
- Conditions relating to hours of work (refer ML 8 & 19, EMMA 3.7, Martha 8).
- Conditions specifically relating to construction activities and monitoring frequencies during these activities (refer ML 9, EMMA 3.8 & 3.9, Martha 15-21).
- Noise monitoring at intervals not exceeding six months during operations for the duration of the project (refer ML 30a-b, EMMA 3.9a-b, Martha 27).
- The provision of summary reports at three monthly intervals (refer ML 30c, EMMA 3.9c, Martha 21 & 26A).
- Existing procedures to be followed for complaints management (refer ML 7C, EMMA 3.5, Martha Sch. One (3) and internal OGNZL procedures).
- Prepare a Noise Management Plan to be approved by HDC (refer ML 21e, EMMA 3.9d, Martha 21 & 27).

## 5.3 Hours of Work

The following table summarises the relevant operational hours of work conditions. Appendices 1, 2, 3, and 7 should be referred to for further detail.

Table 1: Martha Pit working hours

Monday-Friday	0700-2100 <sup>1</sup>
Saturday	0700-1200

Notes: <sup>1</sup> - The hours of work are only permitted between 1900 and 2100 hours Monday-Friday if the operations are of an urgent nature, necessary for the effective carrying out of mining operations and comply with the noise level criteria.

## **5.4 Activities**

The following operating equipment and activities may generate noise and, if utilised, will be included in the monitoring procedures detailed below:

- Heavy vehicles e.g., haul trucks, excavators, loaders, bulldozers, graders, watercarts/service trucks;
- The rock crushers, transfer station and conveyor;
- Drill rigs;
- Light vehicle traffic;
- Maintenance work, possibly at night.

## **5.5 Martha Pit Compliance Monitoring**

### **5.5.1 Operations**

The ANE referred to in Section 2.5.1 also assessed the noise implications of operational mining. Like construction, the ANE derived its operational assessment around the worst-case scenario (maximum number of drilling rigs, trucking to stockpile, multiple crushing activities with associated loaders and bulldozers working at once). While the actual operations will be generally in accordance with that used for the ANE, it is unlikely that all the specified machinery will be operating at once, meaning that the noise effects will be usually less than those assessed (refer Figures 10 to 13 of the ANE).

The negotiations with affected residents as part of the construction activities will also benefit the subsequent operational activities. With activities in accordance with the ANE and negotiated settlements, the noise received at the nearest privately-owned property (without any written agreement with OGLNZ) will be well within operational limits. Compliance with noise limits will be achieved by undertaking the operational activities as proposed in the ANE, using the machinery as specified, and negotiating with the residences most affected.

There are three Martha Mine routine noise monitoring sites for Operations (Figure 1). These sites may be revised following consultation with HDC if monitoring results and complaints indicate other sites of greater sensitivity. For example, while the upper levels of the north wall are being worked, additional monitoring may be required near Bulltown Road, but the requirement for this to continue will drop off as mining gets deeper into the pit.

The representative noise levels during operations must be measured and assessed in accordance with the methods specified in ML c9 & 21, EMMA 3.8(a-e), and Martha 22-26. If elevated noise readings are obtained, the mitigation procedures as defined in Section 13 will be followed.

A penalty will apply for operational noise with special audible characteristics. This includes noises with special impulsiveness or tonality. When this noise occurs, the  $L_{Aeq}$  limit will be reduced arithmetically by 5dB compared to the measured level. No penalty for special audible characteristics is applied for construction noise.





Figure 1: Martha Monitoring Sites

## 6. UNDERGROUND MINES

### 6.1 Background

Modern underground mining at Waihi started in 2005 with the development of the Favona mine to the east of the town. This was followed up by the Trio mine (under Union Hill), then subsequently the Correnso mine under Waihi East (along with the Slevin project, an adjunct to Correnso, which has no noise conditions). The increased dewatering in Correnso also created an opportunity to redevelop the Trio mine at depth; this was completed in 2020.

MDDP (driving two parallel exploration drives under the south-eastern wall of the pit) has been completed (although the consents remain active) and has enabled the development of the current mining activity, Project Martha.

Project Martha (Martha) was approved in February 2019 and is mining under the open pit, seeking to extract untouched ore bodies and remnant ore left from historic mining, and in another ore body to the southeast of the pit (the Rex ore body).

The Underground mines utilise infrastructure developed as part of the original Martha Mine, in particular the processing plant and tailings facilities. Located on Baxter Road, the existing process plant currently generates noise levels consistently below the specified noise limits (e.g., 40 dB  $L_{Aeq}$  at night). The Underground Mines' portal is near the plant and noise from underground activity has not caused the overall noise level to increase appreciably. The vent shaft on Union Hill and the in-pit portals emit the other significant source from underground activity, but the low level of noise and the distance from residences has enabled compliance with night noise limits. Most of the underground activity is designed and operated to meet a noise level below 35 dB at surface.

## 6.2 Underground Consent Conditions

The HDC LUC conditions relating to noise for Underground operations are included as Appendices 3, 4, 5, 6 and 7. In summary these conditions require the following:

- the combined noise level from the Underground Mines and the existing Processing Plant to be no more than 55dB  $L_{Aeq}$  Monday to Friday daytime (0700-2100) and Saturday mornings (0700 - 1200), and at all other times to be no more than 40dB  $L_{Aeq}$  and 70dB  $L_{max}$  at the monitoring locations as detailed (*refer Section 4 for clarification on units of measure*).
- that prior to the commencement of operations on or in association with the polishing pond stockpile at night (2100 hrs to 0700 hrs) the consent holder shall demonstrate that the noise conditions can be met and detail the process proposed to demonstrate compliance in the Noise Management Plan.
- establishment of maximum sound power levels for individual items of mine equipment at Favona and Trio and record these in the Noise Management Plan.
- noise monitoring at weekly intervals during construction of buildings, haul and access roads, noise bunds, ventilation infrastructure and during stockpile site preparation works and for the first six months of production operations and thereafter at intervals not exceeding three months.
- the provision of summary reports at three monthly intervals.

## 6.3 Hours of Work

Underground mining at Favona, Trio, Correnso, MDDP and Project Martha is authorised for 24 hours/day, 7 days/week. Surface operations in association with the Polishing Pond Stockpile is authorised for 24 hours/day, conditional on continuing to meet the 40dB  $L_{Aeq}$  night noise limit. Most of the underground activity is currently in relation to Project Martha, but opportunities may be taken where available to extract additional ore in the largely completed mines when changing circumstance make such options available. These circumstances may include new technology, lowered water levels, and better cost margins.

## 6.4 Activities

The following Underground-related activities are expected to generate noise and will be included in the monitoring procedures detailed below.

### 6.4.1 Polishing Pond Stockpile

This stockpile is designed to contain overflow material from Underground and the pit load-out conveyor when production of ore or waste exceeds the amount that can be processed or re-used, and the storage capacity around the ROM (Run of Mine) pad is insufficient. The stockpile may contain Underground waste material and, once pit production resumes, pit ore and waste. Sound generated from activities could include truck noise associated with transporting the waste/ore material, an excavator and a D8 bulldozer (the latter two sources associated with the loading, spreading and compacting of the waste material).

The handling of material in relation to the polishing pond stockpile (including transportation to and from, its spreading, and compaction) is only permitted by the consent conditions if compliance with night-time noise limits is demonstrated. In early 2015, waste from Correnso development was required to be stockpiled at the polishing pond stockpile and monitoring was undertaken to verify that this activity was compliant at night. At times when the stockpile is utilised, the 'Purcell's' monitoring site (Figure 2) is nearby and applicable for verifying compliance, as well the proposed new site 'Moore St' during times where construction is underway at the Purcell's location (Waihi North Project Services Trench Operations).

#### 6.4.2 Underground Ventilation

Currently, there are two ventilation outlets (Trio Vent Shaft on Union Hill and the 920 Pit Portal near the base of the pit) that service the Underground operations. Air coming into the Underground is sourced from the main portal near the processing plant and an inlet portal within the pit.

The main source of noise from these outlets is the fan/s, with the additional potential for overpressure from blasting within the mine to be emitted via the vent shaft. The primary controls for these emissions are the fitting of the fans a significant distance away from the surface expression of the outlet, and the installation of silencers mounted after the fans. Noise monitoring at commissioning (and routine monitoring since) has shown the noise from these outlets has complied with consented noise limits.

Along with the existing ventilation outlets, the Correnso conditions provide for an additional vent shaft, indicated to be near the north-eastern edge of the pit. Based on current design, the Underground mines can be adequately ventilated from the existing ventilation system. If the additional ventilation shaft provided for by the Correnso consent is required, the noise limits specified in that consent's conditions (Correnso c8, 10, 11) will be complied with.

#### 6.4.3 In-pit Stockpiling

Stockpiling of rock (predominantly waste) within Martha Pit (as authorised by Martha c11) is being undertaken to reduce haulage distances; the alternative is to haul to the Polishing Pond Stockpile several kilometres further away. Noise generated from this activity consists of the dumping activities of underground trucks, and the stockpile and tip-head maintenance by loaders and/or excavators. The primary mitigations for noise generation are the stockpile's depth in the pit (approximately 200m below the pit rim), the elevated pit rim, and distance from the pit to residences. The nearest receivers are approximately 400m from the noise source and screened by the pit rim.

Noise issues from open-pit mining of the Martha Pit in the past have generally been in relation to activities near the crest of the pit (trucks on the uppermost haul roads, ROM pad stockpiling, the crusher and transfer station, and drill rigs on the north high wall). The stockpiling of underground rock occurs at depth in the pit, providing a significantly longer and more complex path for noise transmission.

Stockpiling was initially undertaken during daytime to verify noise compliance and assess if the lower night noise limits could be complied with (refer Table 6 for Martha Pit Operations Noise Limits). Monitoring indicated that some components of the stockpiling can be undertaken at night, while other activities may be restricted to daytime or the higher limit periods. Ongoing monitoring will occur to verify compliance and identify any potential issues.

#### 6.4.4 Cement Aggregate Fill (CAF) Plant

A CAF plant has been constructed near the water treatment plant to meet the current Martha underground mining plans and enable effective structural backfill of historic workings encountered while mining under the Martha Pit. Operation of the CAF plant, along with the nearby Polishing Ponds Stockpile and Favona Portal, has been monitored to ensure that cumulative noise levels do not exceed the limits specified in Martha c23:

Table 2: CAF Plant Noise Limits

Monday – Friday	0700 - 2100	55 dB LAeq
Saturday	0700 - 1200	55 dB LAeq
All other times		40 dB LAeq

### 6.5 Underground Compliance Monitoring

Compliance monitoring is undertaken in accordance with HDC LUC No. 85.050.326.E, condition 5, HDC LUC RC-15774 (Conditions 5 & 6), HDC LUC 202.2012 (Conditions 10 & 11), LUSE-202.2017.664.001 (Martha Drill Drives Project (MDDP) (Conditions 10 & 11)), and LUC 202.2018.857.001 (Project Martha) (Conditions 15-26).



The monitoring will be undertaken in a manner that provides the greatest opportunity of determining representative noise levels from Favona, Trio Correnso, MDDP and Martha Underground by minimising complications due to the influence of extraneous noise sources and meteorological factors. Prior to monitoring, weather conditions are checked to verify the suitability of meteorological conditions (particularly wind speed and direction) for monitoring. In addition, the likelihood of extraneous noises is considered (e.g., the period before and after school) and monitoring adapted in time or location where these extraneous effects can be mitigated.

OGNZL will assess and record representative noise levels generated by Underground operations at intervals not exceeding three months (even though some consents stipulate six-monthly (e.g., Martha c27), normal practice at site is to undertake all routine monitoring on a three-monthly schedule and report the results in the quarterly monitoring reports). Without in any way diminishing OGNZL's obligation to meet the consent condition limits at all points along the compliance boundary at private properties, the monitoring locations for Underground Operations shall be at the sites shown on Figure 2, known as Purcell's (Barry Road, for polishing pond stockpile & CAF plant), Scout Hall (Baker St, for Trio vent shaft), and Slevin St or Islington Tce (for in-pit stockpiling). Due to ongoing construction at the 'Purcell's' site for the Waihi North Project Services Trench, a proposed site called 'Moore St' will be used to verify compliance at the stockpile and CAF plant (Figure 2). Additionally, Scout Hall is currently not monitored as the Trio Vent Shaft operation has ceased.

Selection of the monitoring site on any given occasion will depend on meteorological conditions at the time, to ensure the best chance for obtaining representative noise levels.

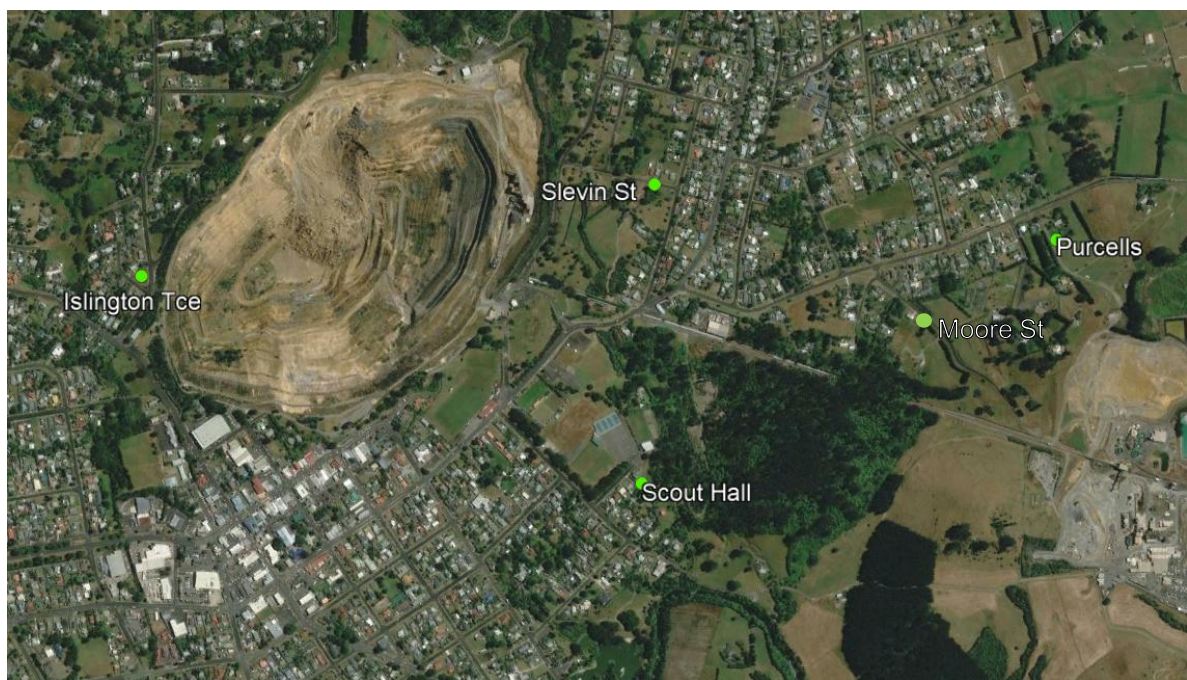


Figure 2: Underground Operations & Processing Plant Monitoring Sites

## 7. TAILINGS STORAGE FACILITIES

### 7.1 Background

Construction and progressive raising of the Tailings Storage Facilities (TSFs) has been an integral component of the mining process throughout the mine's life; as a repository for both waste rock for embankment construction and processing tailings within the impoundments. With the advent of Project Martha, additional tailings storage requirements have necessitated the raising of the crests of both TSF2 and TSF1A.

## 7.2 TSF Consent Conditions

The conditions relating to noise for operating the TSFs are included as Appendices 1 - 9. Area D, as specified in several consents, includes the TSFs and the processing facility, along with specific parts of the Underground operations. As such, noise compliance limits for the TSFs are the same as for the processing plant and CAF plant (Table), summarised as:

Monday-Friday	0700-2100	55dB LAeq
Saturday	0700-1200	55dB LAeq
All other times		40dB LAeq
	2100-0700 (the following day)	70dB LAFmax

## 7.3 Hours of Work

### Tailings Disposal

Tailings disposal generates negligible noise (primarily just light vehicles and machinery relating to inspections and maintenance of the tailings pipelines) and is authorised for 24 hours/day, 7 days/week.

### Crest Raise Earthworks

Construction operations in association with the preparation for and raising of the TSF crests requires the use of medium-sized earthmoving machinery. Like the open pit mining, the operation of this machinery is limited to:

Monday-Friday	0700-2100 <sup>1</sup>
Saturday	0700-1200

Notes: <sup>1</sup> - The hours of work are only permitted between 1900 and 2100 hours Monday-Friday if the operations are of an urgent nature, necessary for the effective carrying out of mining operations and comply with the noise level criteria.

## 7.4 Activities

The following activities and operating equipment may generate noise:

- Earthworks, utilising medium machinery e.g., (proposed 60t trucks, 20-100t excavators, D7-8 dozers, graders, loaders and watercarts);
- Supervision and monitoring using light vehicles;
- Maintenance work, possibly at night, utilising light vehicles and occasionally road trucks.

Construction operations around the TSFs over the decades has indicated that equipment has been compliant with noise limits when operated in accordance with approved hours and maintained in accordance with good practice. Given that the machinery used in early impoundment construction was significantly larger (80t trucks, 110t excavator, D9 dozer) than the proposed machinery, there is an added level of confidence that noise limits will be complied with.

## 7.5 TSF Compliance Monitoring

Compliance monitoring is undertaken in accordance with the Mining Licence and Related HDC Land Use Consent (refer Appendices 1 - 9).

Given the past compliance with consent conditions (with older and larger equipment than that proposed in this Plan), no specific noise monitoring activities are proposed for the TSF activities. However, mitigation will still be employed via several existing practices:

- Community liaison and complaints programmes (Sections 12 and 13).

- Compliance with hours of operation (Section 7.3), which will avoid earthmoving machinery being operational during quieter hours.
- Modern and well-maintained machinery.
- Trained monitoring personnel (Section 16), with calibrated equipment available, to respond to and assess any noise issue that may arise.

## 8. WAIHI NORTH PROJECT

### 8.1 Background

Following the acquisition of the Waihi operations in 2015 and the successful development of the Martha Underground Mine, extensive exploration and technical studies has confirmed the viability of an underground mine at Wharekirauponga.

The Waihi North Project integrates with OceanaGold's existing operations and includes five key components: The Wharekirauponga Underground Mine, Gladstone Open Pit, Tailings Storage Expansion, Northern Rock Stack and the Processing Plant upgrade. These key components are then categorised into key areas.

- Area 1: Wharekirauponga Underground Mine (WUG), WUG Dual Tunnel, and surface exploration, environmental monitoring, and pest control activities
- Area 2: Willows Surface Facilities Area (SFA), the Willows Access Tunnel, and supporting infrastructure
- Area 3: Wharekirauponga Access Tunnel
- Area 4: Services Trench
- Area 5: Gladstone Open Pit (GOP), GOP Tailings Storage Facility (TSF), and Waihi SFA
- Area 6: Northern Rock Stack (NRS) and borrow pit
- Area 7: TSF3 and borrow pits

This Plan has been updated to include the first year of activities in Areas 1, 2, and 5.

### 8.2 Noise Effects Assessment

An Assessment of Noise Effects for the WNP was completed by Marshall Day Acoustics (MDA). Noise modelling conducted by MDA demonstrated that tunnelling operations at Willows Rd would comply with the daytime limit and night operations would comply with the nighttime limit. It is noted that the nearest sensitive receivers (111 and 112 Willows Rd) are now OGNZL owned.

### 8.3 Consent conditions

The conditions relating to operations noise associated with any activity undertaken in Area 1 and noise arising from maintenance activities in any Area are included in Appendix 11.

In summary these conditions require OGNZL to comply with the following:

- Noise levels assessed cumulatively must not exceed the limits specified below when measured at or within the boundary of any residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone:

0700-2200	Monday to Saturday	50 dB LAeq
	All other times	40 dB LAeq
2200 – 0700 (the following day)	Every day	70 dB LA <sub>Fmax</sub>

- The operational noise limits above do not apply to any properties owned by OGNZL

- Noise monitoring every 6 months from all areas and activities outside areas as identified in condition 1(h)
- Provide a summary report at three monthly intervals

#### **8.4 Hours of work**

Operational activities associated with Areas 1, 2 and 5 may be conducted 24hrs/day 7 days/week. It is noted that activities occurring during the day on Sundays must be managed so that noise levels comply with the 'nighttime' limits of 40 dB  $L_{Aeq}$  and 70 dB  $L_{AFmax}$ .

In the first six months of the project, operational noise associated with WNP will be limited to drilling activities in Area 1 and Area 2.

Noise monitoring will be conducted to confirm that proposed Sunday works are compliant with the limits.

#### **8.5 Activities**

For the purposes of Conditions 16-25 stipulated in Appendix 11, operational noise is all noise associated with activities authorised by these consents other than construction noise arising from activities specified in Condition 6.

For clarity, Operational Noise includes:

- noise associated with any activity undertaken in Area 1;
- noise arising from maintenance activities in any Area.

For the full range of activities permitted within the established areas see Appendix 11 Condition 1.

#### **8.6 Compliance Monitoring**

OceanaGold New Zealand Limited (OGNZL) will undertake noise compliance monitoring to confirm that activities associated with the Waihi North Project remain within the prescribed noise limits. Monitoring will be carried out in accordance with the conditions of consent, which require that noise levels are measured at least once every six months for all Areas, and for those activities outside of Areas 1, 2 and 5 that are subject to active operations.

Monitoring will be conducted at or within the boundary of any residentially zoned site or at the notional boundary of any occupied dwelling in the Rural Zone. Measurement and assessment will follow the requirements of NZS 6801:2008 and NZS 6802:2008.

The monitoring programme will include a schedule of routine measurement locations, selected with consideration of proximity to active works, prevailing weather conditions, and any relevant consent conditions. These locations may be reviewed and adjusted in consultation with the Hauraki District Council (HDC) if monitoring results, operational changes, feedback indicate a need for additional or alternative sites.

Should measured noise levels exceed consented limits or if substantiated complaints are received, OGNZL will investigate the source and implement corrective measures as required. Results of all monitoring and any corrective actions undertaken will be documented and reported to HDC in accordance with consent requirements. These will be included in the Quarterly Noise Monitoring Reports currently provided to council.

Through ongoing compliance monitoring and adaptive management, OGNZL will ensure that operational noise effects remain consistent with the predictions of the Assessment of Noise Effects (Marshall Day Acoustics, 2025) and within the limits established under the consent conditions.

## 9. NOISE LIMITS

The operational noise limits at the time of previous Plans were complicated by a progressive legislative change from using different units of measure (dB L<sub>10</sub> to dB L<sub>Aeq</sub>) for noise compliance determination. The Favona, Trio and Correnso operations function under the dB L<sub>10</sub> units while the later MDDP, Martha and recently varied Mining Licence use dB L<sub>Aeq</sub>. In effect the units of measure were similar, and monitoring for Correnso, Favona and Trio was undertaken for some years without a compliance issue. Now that Martha is the primary operation, dB L<sub>Aeq</sub> will be reported upon, although data in both units of measure will continue to be collected and recorded in the site's database.

### Operational Activities:

Table 6: Martha Pit Operations (including ventilation)

Day	Time	Noise Limit
Monday – Friday	0700 - 2100	50 dB L <sub>Aeq</sub>
Saturday	0700 - 1200	50 dB L <sub>Aeq</sub>
All other times		40 dB L <sub>Aeq</sub>
Monday - Sunday	2100 - 0700	70 dB L <sub>AF max</sub>

Table 7: Processing/Disposal Area

(Polishing Pond Stockpile, CAF plant, Processing Plant, TSFs, and including Trio Vent Shaft operation)

Day	Time	Noise Limit
Monday – Friday	0700 - 2100	55 dB L <sub>Aeq</sub>
Saturday	0700 - 1200	55 dB L <sub>Aeq</sub>
All other times		40 dB L <sub>Aeq</sub>
On all nights	2100-0700	70 dB L <sub>AF max</sub>

Table 8: Waihi North Project Operational Noise

Day	Time	Noise Limit
Monday – Saturday	0700 - 2200	50 dB L <sub>Aeq</sub>
All other times		40 dB L <sub>Aeq</sub>
On all nights	2100-0700	70 dB L <sub>AF max</sub>

## 10. MONITORING PROCEDURES

All monitoring and compliance assessment shall be undertaken generally using the procedures set out in Standard Operating Procedure WAI-200-PRO-016 Sound Monitoring. This SOP has been prepared in accordance with the following New Zealand Standards:

- NZS 6802:2008 Acoustics – Environmental Noise
- NZS 6801:2008 Acoustics – Measurement of environmental sound

Meteorological data will continue to be monitored at the OGNZL Meteorological Station on Barry Road. A meteorological station has also been established within Area 2 at the Willows Surface Facilities area in the first year of WNP. Data from this station will be used for noise assessments associated with activities in Area 2.



## 11. NOISE MITIGATION

It is acknowledged that noise levels may be influenced by certain operating and weather conditions. Where noise is elevated, complaints are received, or monitoring demonstrates that relevant noise limits are being exceeded, prompt mitigation action will be taken to comply with the consents relating to noise as well as minimise effects on the community.

When monitoring is undertaken, or complaints responded to, the level of noise generated by mining activities is assessed to three different status levels. Depending on the status level, different mitigation measures are considered.

### 11.1 Status Assessment Criteria

#### 1 Green Status

- a) Normal operational mode where:
  - Measurements have been made they are within the consent limits.
  - No justifiable noise complaints have been received.

#### 2 Yellow Status

- a) The wind speed at the relevant meteorological station (Grey St or Willows Rd) exceeds 3 m/s and a site assessment has determined operational noise to be potentially objectionable.
- b) The operational noise is assessed by site management as excessive, but the wind speed at the receiver exceeds 5 m/s and a noise measurement cannot be made.
- c) An operational dominant noise measurement is above the consent level.

#### 3 Red Status

- a) A follow up compliance noise measurement is above the consent level after noise mitigation measures have been implemented in response to a yellow status or marginal exceedance condition.
- b) Where noise mitigation measures implemented in response to a yellow status condition have not reduced the perceived noise to an acceptable level, but the wind speed at the receiver exceeds 5m/s and no noise measurement is possible.

#### Notes:

At the time the noise measurement is made or where the measurement is unable to be made under 2b & 3b, a note will be made of the dominant noise sources to permit targeting of these activities by the operations.

Meteorological conditions may be taken into account when deciding whether to go to a yellow, red or back to green status, e.g. rain, cold or other conditions that would normally mean most residents would be in-doors.

### 11.2 Noise Mitigation Measures

Where particular operational noise sources dominate, these will be targeted by Operations to ensure that the greatest reduction in noise is achieved with the least disruption to operations.

Yellow Status - indicative measures that could be undertaken are:

- a) Slowing of equipment on the Stockpile Forwarding Area.
- b) The stopping of equipment deemed to be a significant noise contributor e.g. the rock breaker or bogger.
- c) Stopping of rehandle with trucks from the SFA stockpiles.
- d) Change of material into the crusher – e.g. from ignimbrite to PAF.
- e) Change of crusher type – i.e. Jaw to Stamler.
- f) Stoppage of one excavator and or part of truck fleet.
- g) Stopping of all crushing but allowing stockpiling of mined material.
- h) Speed restrictions
- i) Noise barriers

The dominant noise sources and meteorological effects must be considered when deciding upon the appropriate actions to take. For example, when the measured background noise ( $L_{95}$ ) is greater than the consent limit and beyond the control of the operation and wind is a contributing factor, the decision may be to proceed with part or all operational activities.

Red Status - the following action is mandatory.

- a) Closure of all SFA and operational noise producing activities that are not contained wholly within the pit itself.

Drilling, rock breaking and tramming or haulage of oversize or other material within the confines of the pit may be permitted.

Reverting to Green Status

Yellow or Red Status may be set back to Green under the following conditions:

- a) A follow-up noise measurement confirms a marginal level or a noise level below the consent limits, or a background reading exceeds the consent limit, i.e. dominates the ambient noise.
- b) Change in meteorological conditions e.g. change in wind direction or speed, heavy rainfall etc.

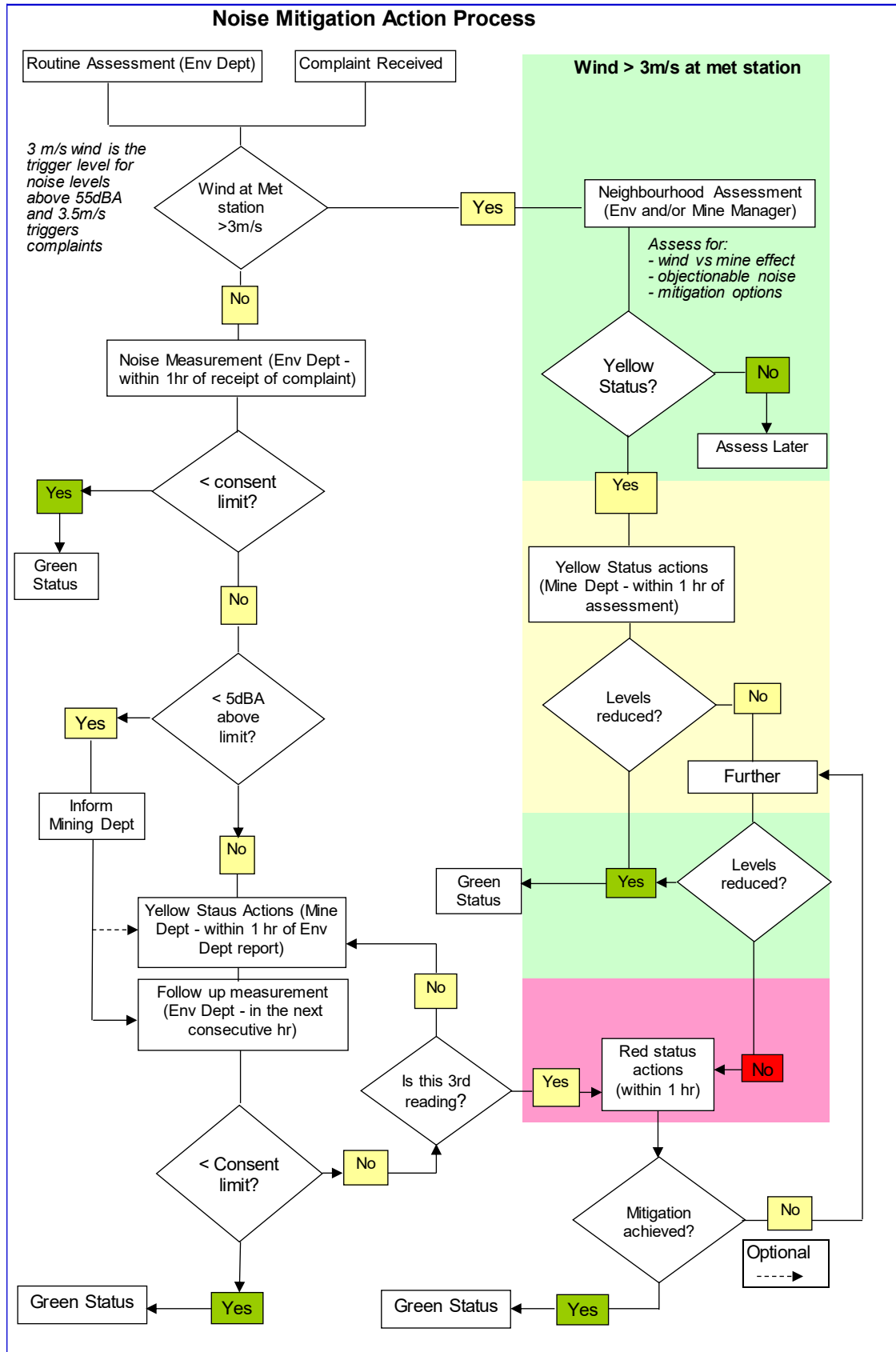


Figure 3: Noise Mitigation Action Flowsheet

## **11.3 Waihi North Project General Noise Mitigation and Management Measures**

### **11.3.1 Noise Barriers**

Noise barriers may be required in some locations to ensure noise levels meet the performance criteria. In general terms, noise barriers are required to be constructed with no gaps and have a minimum surface density of 10 kg/m<sup>2</sup>.

Earth bunds of various heights have been included in the Willows SFA design to provide a degree of screening from vehicle noise on the access road and activity within the overflow car park. The required heights will vary depending on the source and receiver locations (and the intervening ground), but around 3 metres is a common starting point. Earth bunds or a combination of bunds and screening walls or fences are also acceptable provided they are constructed to the same specified height.

### **11.3.2 Management of Plant and Equipment**

When selecting equipment:

- Use electric motors rather than diesel engines where practicable
- Use rubber tracked equipment rather than steel tracked equipment where practicable
- Use equipment that is suitably sized for the task
- Maintain equipment well to minimise rattles, squeaks etc.
- Fit engines with exhaust silencers and engine covers where practicable
- Ensure pumps, compressors and generators are adequately enclosed where practicable
- Avoid tonal reversing or warning alarms (beepers). Alternatives include broadband alarms (squawkers/quackers), flashing lights, proximity sensors, reversing cameras and spotters
- Apply appropriate setback distances for certain high noise equipment
- Limiting high noise equipment to a particular year/height of excavation.

The mitigation methods would include (but not be limited to);

- Restrictions on operating hours
- Bespoke screening of individual sources (primarily by the use of full enclosures)
- Screening of noise sensitive receivers
- Noise monitoring programmes (including detailed noise modelling of the new plant when installed and measurement regimes)

## **12. COMMUNITY LIAISON**

In accordance with ML c7B, EMMA c3.4, Favona c40 & 41, Trio c25, Correnso c78 & 79, MDDP c33, Martha Sch One c2, and Waihi North Project consents, OGNZL will maintain a Community Liaison Officer (CLO) position to liaise between OGNZL, the community and HDC. The CLO shall have sufficient delegated authority to be able to deal immediately with complaints received and shall be required to investigate those complaints as soon as possible after receipt.

The name of the CLO together with the contact phone numbers for that person will be periodically notified in local newspapers. The current CLO and contact details are:

CLO - Donna Fisher                      DDI: 07 863-9827                      Mobile: 027 279-9739  
Free call: 0800 WAIHIGOLD (0800 924 444)

The Projects Office provides a contact point for the community and numerous educational groups. At the Projects Office the public can obtain details about mining operations, including details on noise management.

OGNZL has developed a range of communication and engagement strategies that can be utilised for different stakeholder groups as appropriate, including:

- A monthly “Update” column in the HC Post providing information on current mining activities and items of interest.
- An OceanaGold Facebook page
- Press releases in local newspapers in response to media requests or project milestones.
- An actively managed website, <http://www.waihigold.co.nz/>, providing information on mining activities and including the “Update”.
- Public notice boards erected at Martha viewing areas to provide project information.
- Letter drops within the community when information about specific issues needs to be circulated.
- House visits to residents seeking further information.
- The use of various forums and groups to gain feedback and provide information (e.g. Waihi Community Forum and Iwi Advisory Group)
- For Martha, regular public meetings are held to present information and receive feedback on past and proposed mining activities, and monitoring results.
- Provide nearby building occupants information prior to starting construction, overall works with times and duration where possible.

### 13. COMPLAINT RESPONSE

OGNZL maintains a register of complaints (including environmental matters) and has done so since 1987. The register is held by the Company Liaison Officer, who is responsible for responding to complaints, and it gives details of each complaint received by the company and any follow up action. Summaries of the noise related complaints are included in the Quarterly Noise Monitoring Reports.

The Concerns, Complaints and Grievances Procedure (WAI-800-PRO-007) describes the process for receiving, investigating, and responding to complaints.

### 14. RESPONSIBILITIES AND ACCOUNTABILITIES

Role	Responsibility
<b>Asset President</b>	<ul style="list-style-type: none"> <li>• Overall responsibility for ensuring that legal and other requirements in this Plan are fulfilled and resources are available to achieve this.</li> </ul>
<b>Manager – Process</b>  <b>Manager – Mining (Underground)</b>	<ul style="list-style-type: none"> <li>• Have delegated responsibility for overseeing any surface and underground contractors ensuring compliance with regulatory requirements and this Plan.</li> </ul>
<b>Environmental Superintendents</b>	<ul style="list-style-type: none"> <li>• Fulfilment of all monitoring and reporting requirements under the consents / licences and this Plan</li> <li>• The Plan is reviewed every two years at a minimum</li> <li>• Noise monitoring programmes identified in this Plan are developed, implemented and maintained where appropriate</li> <li>• Mitigation actions are identified and communicated where necessary</li> </ul>

<b>Role</b>	<b>Responsibility</b>
<b>Dept Superintendent</b>	<ul style="list-style-type: none"> <li>• Responsible for ensuring that controls are maintained and utilised</li> <li>• Ensure that maintenance procedures and conditions of contracts with implications are supervised and enforced</li> <li>• Ensure adequate resources are available to carry out the requirements of this Plan safely</li> <li>• Ensure relevant training is provided for all personnel</li> <li>• Shall demonstrate personal accountability through compliance to this Plan</li> </ul>
<b>Dept Supervisors</b>	<ul style="list-style-type: none"> <li>• Ensure relevant personnel are trained in this Plan</li> <li>• Conduct regular workplace inspections to ensure all personnel are following the guidelines set out in this Plan</li> <li>• Shall demonstrate personal accountability through compliance to this Plan</li> </ul>
<b>Company Liaison Officer</b>	<ul style="list-style-type: none"> <li>• Responsible for responding to complaints and liaising with the community. The Company Liaison Officer has sufficient delegated authority to require that mitigation measures be undertaken to meet consent requirements.</li> </ul>
<b>Workers</b>	<ul style="list-style-type: none"> <li>• Comply with the requirements of this Plan</li> <li>• Provide feedback to the supervisor on improving ways to carry out a task and any concerns with current practices</li> </ul>
<b>Contractors</b>	<ul style="list-style-type: none"> <li>• Responsible for ensuring that their activities comply with the requirements of this Plan and the directions of the OGNZL supervision</li> </ul>

## 15. REPORTING

OceanaGold uses the on-line management system and software INX to record and store Health, Safety, Environment, & Training requirements. Records are stored securely and indefinitely within this facility. The following suites are specific to the type of data stored and managed:

- InControl – Event and incident reporting, action tracking, audits, inspections, task observations, Mine Record Entries and Management of Change
- InTuition – Worker's training and competency requirements
- Cority – Worker health monitoring and occupational hygiene monitoring programs.

All inspection and maintenance records are to be held by the relevant department or through corporate maintenance databases i.e., Pronto

This document is a controlled document secured within the OceanaGold document control system Team Binder and published to the site through SharePoint. Any changes made to this document must be documented in the revision reference.

Records of all noise monitoring will be maintained and provided to HDC on request.

To meet the combined requirements of ML c30, HDC EMMA c3.9c, Favona c9, Trio c6d and Correnso c11, MDDP c11d, and Martha c26A, and Waihi North Project consents, OGNZL will (unless otherwise directed to do so by HDC following consultation with OGNZL) provide a collective summary report to the HDC after each March, June, September, and December quarter.

## **16. TRAINING**

All management, staff and contractors undertake an induction when newly appointed, and refreshers are taken every two years. In addition to the site health and safety training, the induction aims at raising general awareness of individual responsibilities for managing and reporting environmental and community effects. Reporting procedures and accountabilities to departmental managers and environmental staff are outlined, and all inductees are provided with a site contact list.

Responsibility for staff environmental awareness and training rests with the Environmental Superintendent or delegated representative. Environmental personnel undertake noise monitoring under the guidance of existing experienced personnel, with additional specialist training, support and guidance provided periodically by Hegley Acoustic Consultants Ltd.

## **17. NOISE MANAGEMENT PLAN REVIEW**

This Plan should be regarded as a working document. Although there is no review period specified in consents, amendments to the document may be required as operations proceed, with reviews being subject to recertification by HDC.

## **18. REFERENCES**

OGNZL, 2023 [WAI-200-PRO-016 Sound Monitoring](#) Standard Operating Procedure for sound monitoring. Internal OGNZL document.

OGNZL, 2023 [WAI-800-PRO-007 Concerns, Complaints and Grievances Procedure](#) Standard Operating Procedure for managing public concerns, complaints and grievances. Internal OGNZL document.

Hegley Acoustic Consultants, May 2018. Project Martha, Waihi, Assessment of Noise Effects. Supporting document for Project Martha Consent Application.

Fly Neighborly / Environmental Working Group of Vertical Aviation International. 4<sup>th</sup> Edition. Fly Neighborly Guide.

Marshall Day Acoustics, February 2025. Waihi North Project, Assessment of Noise Effects. Supporting document for Waihi North Project Consent Application.

## **APPENDIX 1 VARIATION TO MINING LICENCE 32-2388, NOISE CONDITIONS**



1. The work to be undertaken pursuant to this licence shall be limited to the following:

**(d) Monitoring**

The regular monitoring of pit slopes, tailings retaining structures, ground movement, noise, blasting, vibration, air quality and rehabilitation programmes together with the necessary rectification work as required.

**7B Company Liaison Officer**

(a) The licensee shall appoint a person ("the Company Liaison Officer"), subject to the approval of the Minister to liaise between the licensee, the community, and the Minister as set below. The Company Liaison Officer shall have sufficient delegated power to be able to deal immediately with complaints received and shall be required to investigate those complaints as soon as possible after receipt.

(b) The name of the Company Liaison Officer together with the contact phone numbers for that person shall be publicly notified in local newspapers by the licensee prior to the commencement of the extended project (at least one month prior, but not more than two months prior to the commencement of construction activities) and at least once a year thereafter.

(c) The Company Liaison Officer shall be appointed prior to the commencement of the extended project and this position shall be filled at all times during the construction activities as defined in Condition 3.

**Council Liaison Officer**

(d) The licensee shall provide all the reasonable costs associated with the appointment and support of a Council Liaison Officer, to be employed by and be responsible to the Minister during the construction activities as defined in Condition 3.

(Note: The following is for information purposes only and does not form part of the condition.

The Council Liaison Officer may either be a new appointment or may be an existing employee.

Whether or not the appointee is an existing employee, the Council Liaison Officer's role shall be independent and objective and designed to promote effective gathering of information of effects upon the community from the mining activity; and, in the light of such information, to promote effective liaison with the Company Liaison Officer so that the effects identified may be remedied or mitigated.)

The functions and responsibilities of the Council Liaison Officer shall be as follows:

- (i) Liaise between the Company Liaison Officer, members of the community, the Waihi Liaison Forum (or its equivalent), and the Minister;
- (ii) Report to the Minister on an "as events happen" basis, and weekly on complaints received, actions undertaken by the licensee and the complainant in respect to complaints, and on any other relevant actions and activities occurring during the week;
- (iii) Ensure that the Company Liaison Officer is providing information to residents in the area around the mine and tailings facilities of the activities that are programmed to be undertaken in the coming week (especially land clearance, construction and blasting), activities that were carried out in the previous week and any other material that will inform the residents of what is programmed to happen in the coming weeks;
- (iv) Facilitate the appointment of a mediator, venue, time etc agreeable to both parties, to undertake the mediation of disputes or concerns between the licensee and members of the community. Except in those situations where both parties are in agreement, the Council Liaison Officer's function is not to act as a mediator. The role of mediation is a specialist one that needs to be undertaken by persons experienced and trained in this area.
- (e) The Company Liaison Officer shall, during construction activities, report weekly to the Council Liaison Officer on all complaints received in the prior week and the action taken to investigate those complaints. In addition, the Company Liaison Officer shall investigate and report on any other matters as directed by the Council Liaison Officer concerning or arising out of construction activities. (See periods of construction activities as defined in condition 3.)

(f) The Company Liaison Officer shall give residents who are likely to be affected and the Council Liaison Officer reasonable (minimum one week's) prior notice of construction activities, indicating likely timing and duration.

(g) Following completion of initial construction activities, and prior to the commencement of other construction activities (ie during operations stage), the Company Liaison Officer shall report six monthly to the Minister on the following:

- (i) All complaints received during the previous six month period, action taken by the licensee and the resolutions, if any;
- (ii) Other matters of concern raised by the community;
- (iii) Any mediation entered into by the licensee and others with respect to operational matters and the outcome (unless the parties have agreed to keep such confidential).

#### 7C Complaints procedure and mediation

Note: the following is for information purposes only and does not form part of the condition.

- Complainants will be expected to contact the Company Liaison Officer in the first instance (refer condition 7B(a)).
- During construction activities, if a complainant is dissatisfied with the response by the Company Liaison Officer, they shall contact the Council Liaison Officer with the details of the complaint and the Company Liaison Officer's response. Outside the construction activities, complainants shall contact any officer of the Minister.

The licensee shall comply with the following complaints procedure and mediation process:

(a) The Company Liaison Officer shall meet with the complainant and the Council Liaison Officer to discuss the complaint and ways in which the issue can be resolved

(b) If the parties cannot agree on a resolution, the matter shall be put to mediation.

(Note: The following is for information purposes only and does not form part of the condition:

- (i) Refer condition 7B(d)(iv) above.
- (ii) Unless the parties agree the outcome of mediation shall not be binding.)

#### 7D Noise Bunds

(a) The licensee shall, prior to commencing construction and reworking activities associated with the noise bunds associated with the extended project prepare and submit detailed proposals to the Minister.

(b) Proposals shall indicate:

- Activities to be carried out, including their sequence and duration. A discussion on construction and removal methods considered shall be provided.
- Plant and equipment proposed to be used.
- Any activities likely to be undertaken on land beyond the ownership or control of the licensee, the duration of such activities, and proposed measures to mitigate adverse effects that might be experienced by the general public and/or adjacent residents as a consequence of these activities.
- Proposals with respect to the removal or demolition of existing houses lying within or adjacent to the proposed noise bund (construction proposals only).
- Proposed measures to mitigate potential adverse effects (in particular noise, dust, traffic generation and visual impact) occurring as a consequence of construction and removal activities, in particular measures aimed at safeguarding adjacent residential amenity.

(c) This condition shall be read in conjunction with Condition 25, including the proposals under this condition to incorporate the screen planting provisions.

(d) The Company Liaison Officer shall also ensure that the programme of construction and reworking the noise bunds is provided to all residents in the immediate area surrounding the bund who in his/her opinion are likely to experience the effects of these activities and to the Council Liaison Officer. This programme shall be provided at least 5 days in advance of the work being undertaken.

(e) The construction of part of the noise bund over Junction Road cannot be undertaken until such time as the stopping of Junction Road has been completed.

(f) A 2 metre high close boarded wooden fence shall be constructed along the Grey Street frontage to visually screen the site and to provide noise attenuation, prior to any clearance of vegetation or other activities associated with the extended project are undertaken. Once the noise bund is completed, the 2 metre high closed boarded wooden fence can be removed to be used on the top of the noise bund.

(g) Non acid forming material shall be used in the construction of the noise bund to ensure that no leaching occurs during or after construction of the noise bund.

### **Hours of work**

**8. Construction work shall be limited to within the following hours:**

Monday – Friday	0700-2000 daily
Saturdays	0730-1800

(a) Provided that construction work hours at the process plant site shall be permitted outside of the above hours as long as the noise levels do not exceed those specified in Condition 9(a).

(b) The above hours of work do not apply with respect to the use of water trucks for the purpose of controlling dust, so long as this activity complies with the noise level criteria of condition 9.

### **Construction noise during construction period**

9. (a) With the exception of Waihi Central School where the construction noise limit shall be 55 dB  $L_{Aeq}$  at any point within the boundary of the school, all construction activities provided for by the Mining Licence taking place within the Mining Licence area shall not exceed the following limits:

Monday-Friday	Saturdays	$L_{Aeq}$	$L_{AFmax}$
0630-0730		60	70
0730-1800	0730-1800	75	90
1800-2000		70	85

At all other times, including Sundays and Public Holidays, the noise level shall not exceed 40 dB  $L_{Aeq}$

All noise shall be measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the licence holder or related Company or not subject to an agreement with the licence holder or related Company.

In the event that a property is sold and ceases to be subject to an agreement between the licence holder ( or related Company ) and the purchaser, or in the event that there is no longer an agreement between the licence holder ( or related Company ) and the landowner, the location for the measurement of noise shall revert to being on or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

(b) Construction noise shall be managed, measured and assessed in accordance with New Zealand Standard 6803:1999 Acoustics – Construction Noise.

(e) Tree-felling shall be conducted to minimise as far as practicable noise intrusion on all neighbouring properties.

(f) Unwanted surface material at the mine site shall be used wherever practical when barriers are required close to the pit edge or near the rotary crusher to reduce noise.

(g) Soil stored in the waste disposal area shall be used where practical when noise attenuation is required.

(h) All equipment and machinery shall be regularly maintained to ensure noise levels as low as reasonably attainable.

### **Hours of work**

**19. (a) Open Pit Mining and Conveying (other than maintenance work)**

Permissible operating hours within the open pit, adjacent service facilities and conveyor corridor shall be restricted to:

Monday-Friday	0700-2100
Saturday	0700-1200

**(b) Operations within the process plant**

The plant may operate twenty-four (24) hours per day, seven (7) days per week.

**(c) Operations within the waste and tailings area (other than maintenance work)**

Permissible operating hours within the waste and tailings area shall be restricted to:

**(i) Waste disposal:**

Monday-Friday	0700-2100
Saturday	0700-1200

**(ii) Tailings disposal:**

Twenty-four (24) hours per day, seven (7) days per week.

(d) The above hours of work to apply provided that operations in (a) and (c)(i) above are only permitted between 1900 and 2100 hours Monday-Friday if the operations are of an urgent nature and necessary for the effective carrying out of mining operations and that they comply with the noise level criteria as specified in Condition 21(a).

(e) Details of all operations conducted under (d) above shall be entered into a record book kept for that purpose.

(f) The above hours of work do not apply with respect to the use of water trucks for the purpose of controlling dust, so long as this activity complies with the noise level criteria of condition 21.

## **Noise**

21. (a) All activities provided for by the Mining Licence taking place on any site within the Mining Licence area shall not exceed the following limits when measured at or within the boundary of any residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone and measured over the periods specified below:

Monday-Friday	0700-2100	55 dB LAeq
Saturday	0700-1200	55 dB LAeq
All other times		40 dB LAeq
	2100-0700 (the following day)	70 dB LAFmax

All noise shall be measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the licence holder or related Company or not subject to an agreement with the licence holder or related Company.

In the event that a property is sold and ceases to be subject to an agreement between the licence holder (or related Company) and the purchaser, or in the event that there is no longer an agreement between the licence holder (or related Company) and the landowner, the location for the measurement of noise shall revert to being on or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

(d) Noise shall be measured in accordance with the provisions of New Zealand Standard NZS 6801:2008 Acoustics – Measurement of Environmental Sound and assessed in accordance with the provisions of NZS 6802:2008 Acoustics – Environmental Noise.

### **(e) Noise Management Plan**

The licence holder shall prepare a Noise Management Plan. This Management Plan shall be submitted to and approved by Hauraki District Council. The objective of this plan is to detail the methods to be used to comply with conditions 21 and 30.

## **Noise**

30.

(a) The licensee shall at weekly intervals during construction activities (as defined in Condition 3) and at intervals not exceeding six (6) months during operational activities, assess and record representative noise levels generated by mining operations.

(b) Representative noise levels during construction and operation activities shall be measured and assessed in accordance with the methods specified in Conditions 9 and 21.

(c) The licensee shall, unless otherwise directed to do so by the Minister following consultation with the licensee, provide a quarterly summary report to the Minister on the representative noise levels.

**APPENDIX 2 MARTHA MINE EXTENDED PROJECT - HDC LUC# 97/98-105, NOISE CONDITIONS**

### 3.4 Liaison Officers

#### Company Liaison Officer

- a) The consent holder shall appoint a person ("the Company Liaison Officer"), subject to the approval of the Hauraki District Council and the Waikato Regional Council to liaise between the consent holder, the community, the Hauraki District Council and the Waikato Regional Council as set out in this consent. The Company Liaison Officer shall have sufficient delegated power to be able to deal immediately with complaints received and shall be required to investigate those complaints as soon as possible after receipt.
- b) The name of the Company Liaison Officer together with the contact phone numbers for that person shall be publicly notified in local newspapers by the consent holder prior to the exercising of this consent (at least one month prior, but not more than two months prior to the commencement of construction activities) and at least once a year thereafter.
- c) The Company Liaison Officer shall be appointed prior to the exercising of this consent and this position shall be filled at all times during the construction activities as defined in Condition 3.3.

#### Council Liaison Officer

- d) The consent holder shall provide all the reasonable costs associated with the appointment and support of a Council Liaison Officer, to be employed by and be responsible jointly to the Hauraki District Council and Waikato Regional Council during the construction activities as defined in Condition 3.3.

(Note: The following is for information purposes only and does not form part of the condition.

The Council Liaison Officer may either be a new appointment or may be an existing employee. Whether or not the appointee is an existing employee, the Council Liaison Officer's role shall be independent and objective and designed to promote effective gathering of information of effects upon the community from the mining activity; and, in the light of such information, to promote effective liaison with the Company Liaison Officer so that the effects identified may be remedied or mitigated.

The functions and responsibilities of the Council Liaison Officer shall be as follows:

- i) liaise between the Company Liaison Officer, members of the community, the Waihi Liaison Forum (or its equivalent), Hauraki District Council and Waikato Regional Council;
- ii) report to the Hauraki District Council and Waikato Regional Council on an "as events happen" basis, and weekly on complaints received, actions undertaken by the consent holder and the complainant in respect to complaints, and on any other relevant actions and activities occurring during the week;
- iii) ensure that the Company Liaison Officer is providing information to residents in the area around the mine and tailings facilities of the activities that are programmed to be undertaken in the coming week (especially land clearance, construction and blasting), activities that were carried out in the previous week and any other material that will inform the residents of what is programmed to happen in the coming weeks;
- iv) facilitate the appointment of a mediator, venue, time etc agreeable to both parties, to undertake the mediation of disputes or concerns between the consent holder and members of the community. Except in those situations where both parties are in agreement, the Council Liaison Officer's function is not to act as a mediator. The role of mediation is a specialist one that needs to be undertaken by persons experienced and trained in this area).
- e) The Company Liaison Officer shall, during construction activities, report weekly to the Council Liaison Officer on all complaints received in the prior week and the action taken to investigate those complaints. In addition, the Company Liaison Officer shall investigate and report on any other matters as directed by the Council Liaison Officer concerning or arising out of construction activities. (See periods of construction activities as defined in condition 3.3)
- f) The Company Liaison Officer shall give residents who are likely to be affected and the Council Liaison Officer reasonable (minimum one week's) prior notice of construction activities, indicating likely timing and duration.

g) Following completion of initial construction activities, and prior to the commencement of other construction activities (ie during operations stage), the Company Liaison Officer shall report six monthly to the Hauraki District Council and the Waikato Regional Council on the following:

- (i) All complaints received during the previous six month period, action taken by the consent holder and the resolutions, if any;
- (ii) Other matters of concern raised by the community;
- (iii) Any mediation entered into by the consent holder and others with respect to operational matters and the outcome (unless the parties have agreed to keep such confidential).

### 3.5 Complaints Procedure and Mediation

(Note: The following is for information purposes only and does not form part of the condition:

- i) Complainants will be expected to contact the Company Liaison Officer in the first instance (refer to Condition 3.4 a)).
- ii) During the construction activities, if the complainant is dissatisfied with the response by the Company Liaison Officer, they shall contact the Council Liaison Officer with details of the complaint and the Company Liaison Officer's response. Outside the construction activities, complainants shall contact the Manager Planning and Environmental Services or any other Officer of Council.).

The consent holder shall comply with the following complaints procedure and mediation process:

- a) The Company Liaison Officer shall meet with the complainant and the Council Liaison Officer, to discuss the complaint and ways in which the issue can be resolved.
- b) If the parties cannot agree on a resolution, the matter shall be put to mediation.

(Note: The following is for information purposes only and does not form part of the condition:

- i. Refer to Condition 3.4 d), Note iv)
- ii. Unless the parties agree, the outcome of the mediation shall not be binding.)

### 3.7 Hours of work

- (a) Construction Activities (refer to definition in Condition 3.3)

Monday - Friday                      0700 - 2000

Saturday                                0730 - 1800

- (b) Mining Operations and Conveying (other than maintenance work)

Permissible operating hours within the open pit, adjacent service facilities and conveyor corridor shall be restricted to:

Monday - Friday                      0700 - 2100

Saturday                                0700 - 1200

- (c) Operations within Area D (other than maintenance work)

Permissible operating hours within Area D for waste disposal and stockpiling of topsoil shall be restricted to:

Monday - Friday                      0700 - 2100

Saturday                                0700 - 1200

- (d) The above hours of work to apply provided that operations in (b) and (c) above are only permitted between 1900 and 2100 hours Monday - Friday if the operations are of an urgent nature and necessary for the effective carrying out of mining operations and they comply with the noise level criteria as specified in Condition 3.8(b). Details of all such operations are to be recorded and available to the Council upon request.

- (e) The above hours of work do not apply with respect to the use of water trucks for the purpose of controlling dust, as long as this activity complies with the noise level criteria of Condition 3.8.



### 3.8 Noise

#### (a) Construction (refer to the definition in Condition 3.3)

With the exception of Waihi Central School where the construction noise limit shall be 55 dB  $L_{Aeq}$  at any point at or within the boundary of the school during school hours, all construction activities provided for by this consent shall not exceed the following limits:

Monday - Friday	Saturdays	dB $L_{Aeq}$	dB $L_{AFmax}$
0630 – 0730		60	70
0730 – 1800	0730 – 1800	75	90
1800 – 2000		70	85

At all other times, including Sundays and Public Holidays, the noise level ( $L_{10}$ ) shall not exceed 40 dB  $L_{Aeq}$ .

All noise shall be measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the consent holder or related Company or not subject to an agreement with the consent holder or related Company.

In the event that a property is sold and ceases to be subject to an agreement between the consent holder (or related Company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related Company) and the landowner, the location for the measurement of noise shall revert to being on or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

Construction noise shall be managed, measured and assessed in accordance with New Zealand Standard NZS6803:1999 Acoustics – Construction Noise.

#### (b) Operations

##### i) Activities Within Area B

The noise level ( $L_{Aeq}$ ) at any point outside the 55 dB and 50 dB control boundaries shown in Plan 2 (copy attached in Appendix E) arising from mining and related activities when measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone not owned by the Company or not subject to an agreement with the Company or related Company shall not exceed the limits specified below:

		55 dB Control Boundary	50 dB Control Boundary
Monday – Friday	0700-2100	55 dB	50 dB
Saturday	0700-1200	55 dB	50 dB
All other times		40 dB	40 dB

In the event that a property is sold and ceases to be subject to an agreement between the consent holder (or related Company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related Company) and the landowner, the location for the measurement of noise shall revert to being within or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

ii) Activities Within Areas C & D

The noise level ( $L_{Aeq}$ ) measured within or close to the boundary of any Residential or Low Density Residential zoned site, or the notional boundary of any occupied rural dwelling site within the Rural zone not owned by the Company or not subject to an agreement with the Company or related Company shall not exceed the following limits:

Monday – Friday	0700-2100	55 dB
Saturday	0700-1200	55 dB
All other times		40 dB

In the event that a property is sold and ceases to be subject to an agreement between the consent holder (or related Company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related Company) and the landowner, the location for the measurement of noise shall revert to being within or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

iii) Activities Within Areas E, F, H, I, & K

The provisions of Rule 8.3.1.3 of the Operative Hauraki District Plan 2014 shall apply.

In considering the action to be taken as a result of any breach of the noise limits, Council shall have regard to the following factors:

- 1) The total time duration for which the noise exceeded the limit
- 2) The time of the day at which the breach occurred
- 3) Whether the breach occurred as a result of factors beyond the control of the consent holder or contractor
- 4) The amount by which the noise limit was exceeded
- 5) The likelihood that the breach will recur
- 6) The actions taken to prevent recurrence of the breach
- 7) Action taken to mitigate the noise and whether the best practicable option for the circumstances was adopted

For the purposes of 4) above, a breach of the noise limit by 5dB or less shall be considered marginal. The Council will seek an explanation of the reasons for a marginal breach, and will seek that action be taken to avoid a recurrence if practical. The Council will not take enforcement action in respect of a marginal breach to achieve compliance where this would impose unreasonable restrictions on mine operations, such breach being one that will not impose anything more than minor adverse effects upon the residential areas in the vicinity of the mine. The Council may pursue enforcement action if the breach persists unduly in the circumstances or if the best practicable option is not being adopted.

(e) Noise shall be measured in accordance with the provisions of New Zealand Standard NZS6801:2008 Acoustics – Measurement of Environmental Sound and assessed in accordance with the provisions of NZS 6802:2008 Acoustics – Environmental Noise.

### 3.9 Monitoring and Reporting on Noise Levels

(a) The consent holder shall at weekly intervals during construction activities (as defined in Condition 3.3) and at intervals not exceeding six (6) months during operational activities, assess and record representative noise levels generated by mining operations.

(b) Representative noise levels during construction and operation activities shall be measured and assessed in accordance with the methods specified in Condition 3.8.

(c) The consent holder shall, unless otherwise directed to do so by the Council following consultation with the consent holder, provide a summary report to the Council at the end of each February, May, August and November on the representative noise levels.

(d) The consent holder shall prepare a Noise Management Plan. This Management Plan shall be submitted to and approved by Hauraki District Council. The objective of this plan is to detail the methods to be used to comply with condition 3.8.

## **APPENDIX 3 FAVONA - HDC LUC# 85.050.326.E NOISE CONDITIONS**

## Noise

5. All noise associated with the construction and use of the Favona Underground Mine Project (including associated activities of stockpiling and construction works) shall be measured at any point within or at the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the consent holder or related Company, or not subject to an agreement with the consent holder or related Company as shown on Figure 2-3 of the Assessment of Environmental Effects (attached to this consent as **Attachment A**). In the event that a property is sold, and is not subject to an agreement between the consent holder (or related Company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related Company) and the occupier, the measurement of noise shall revert to being measured at any point within or at the boundary of the residentially zoned site or the notional boundary of the occupied rural site.

The noise associated with the construction and use of the Favona Underground Mine Project shall be measured cumulatively with other noise emanating from the Exploration Decline (should this be operated simultaneously), all operations within the process plant, operations within the waste and tailings areas, and the conveyor and associated activities over the periods specified below, and shall not exceed the following limits:

Monday – Friday	0700-2100	55dBA L <sub>10</sub>
Saturday	0700-1200	55dBA L <sub>10</sub>
All other times		40dBA L <sub>10</sub>
All nights	2100-0700 (the following day)	70dBA L <sub>max</sub>

The measurement periods to determine the daytime L<sub>10</sub> shall be representative of any single working day (i.e., 0700 – 2100 Monday to Friday, and 0700 – 1200 Saturday) and shall consist of at least three measurement periods of at least 15 minutes duration each, in any non-consecutive 60-minute periods spread over the working day.

The daytime mean corrected noise level shall be calculated on an energy basis from the measurements and no single corrected measured level shall exceed the permitted mean level by more than 5dBA.

(Note: The term ‘related Company’ includes Waihi Mines Limited, Welcome Gold Mines Limited, Auag Resources Limited, Martha Mining Limited, Waihi Gold Mining Company Limited, and Waihi Gold Company Nominees Limited.)

6. Subject to the express provisions of Condition 5, the noise levels shall be measured and assessed in accordance with the requirements of the New Zealand Standards NZS 6801:1999 Measurement of Environmental Sound and NZS 6802:1991 Assessment of Environmental Sound.

7. Before any operations take place on or in association with the polishing pond stockpile between the hours of 2100 hrs and 0700 hrs the following day the consent holder shall demonstrate in practice, to the satisfaction of the Manager – Planning and Environmental Services, that it is able to comply with Condition 5. The process proposed to demonstrate compliance shall be included in the Noise Management Plan (Condition 10) and will require Council to obtain a report from the liaison officer appointed under Condition 40 as to complaints received and the steps taken in response.

8. The consent holder shall establish maximum sound power levels for individual items of Favona Mine equipment and record these in the noise management plan. All equipment and machinery shall be regularly maintained to ensure compliance with the noise levels in Condition 5.

### 9. Monitoring and Reporting

Unless it can be demonstrated that adverse weather conditions prevented noise monitoring on each day of the seven day period, the consent holder shall monitor noise levels at weekly intervals during any construction of buildings, haul and access roads, any noise bunds and the vent shaft riser and during stockpile site preparation works. In addition and unless it can be demonstrated that adverse weather conditions prevented noise monitoring on each day of the seven day period the consent holder shall monitor noise levels at weekly intervals for the first six months of production operations and, if the monitoring demonstrates compliance with the noise limits, thereafter at intervals not exceeding 3 months. In the event that noise limits are exceeded then monitoring shall continue at weekly intervals while steps are undertaken to remedy the situation. Such measures shall be implemented immediately.

Records of all noise monitoring shall be maintained and provided to Council on request.

Representative noise levels shall be measured and assessed in accordance with the methods specified in Condition 6, and as set out in the Noise Management Plan (Condition 10).

The consent holder shall, unless otherwise directed to do so by Council following consultation with the consent holder, provide a summary report to the Council at the end of each 3 month period from commencement of work to completion of the project (i.e. once all rehabilitation has been completed) on the following:

- i) Results of the noise monitoring;
- ii) Any complaints received during the previous 3 month period, action taken by the consent holder and the resolution (if any); and
- iii) Any other matters of concern raised with the consent holder.

#### 10. Noise Management Plan

The consent holder shall, 1 month prior to exercising this consent, prepare a noise management plan to the satisfaction of the Manager Environment and Planning. The objective of this plan is to detail the methods to be used to comply with Conditions 5, 6, 7, 8 & 9.

## **APPENDIX 4 TRIO – HDC LUC# RC-15774 NOISE CONDITIONS**

## Noise

5. All noise associated with the Trio Underground Mine Project shall be measured on or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the consent holder or related company or not subject to an agreement with the consent holder or related company. In the event that a property is sold and ceases to be subject to an agreement between the consent holder (or related company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related company) and the landowner, the measurement of noise shall revert to being on or close to the boundary of the residentially zoned site or the notional boundary of the occupied rural site.

All noise associated with the Trio Underground Mine Project shall be over the periods specified below, and shall not exceed the Noise Level limits specified below:

Time Period	Noise Limits	
	L <sub>10</sub>	L <sub>max</sub>
Monday – Friday 0700-2100	55	NA
Saturday 0700-1200	55	NA
On all nights 2100-0700 (the following day)	NA	70
All other times	40	NA

The noise shall be measured cumulatively with other noise emanating from the Martha Mine and Favona Underground Mine (should there be simultaneous sources of noise generation), all operations within the process plant, operations within the waste and tailings area, and the conveyor and associated activities

The day time measurement periods to determine the L<sub>10</sub> noise level shall be representative of any single working day and shall consist of at least three measurement periods of at least 15 minutes duration each, in any non-consecutive 60-minute periods spread over the working day.

The mean corrected noise level shall be calculated on an energy basis from the measurements and no single corrected measured level shall exceed the permitted mean level by more than 5dBA.

Subject to the express provisions in the table in this condition, the noise levels shall be measured and assessed in accordance with the requirements of the New Zealand Standards NZS6801:1999 Measurement of Environmental Sound and NZS6802:1991 Assessment of Environmental Sound.

## 6. Noise Monitoring and Reporting

a) Noise monitoring to confirm compliance with the noise levels in Condition 5 shall be undertaken as follows:

Unless it can be demonstrated that adverse weather conditions prevented noise monitoring on each day of the seven day period, the consent holder shall monitor noise levels for the site at weekly intervals for 6 weeks from the commencement of Trio Underground mining operations, and if the monitoring demonstrates compliance with the noise limits, thereafter at intervals not exceeding three months.

In the event that noise limits are exceeded then monitoring shall continue at weekly intervals while steps are undertaken to comply with Condition 5. Such measures to comply with Condition 5 shall be implemented immediately.

Note: Such ongoing monitoring may be undertaken in conjunction with the Favona Land Use Consent (85.050326E) and the Martha Mining Licence (ML 322388).

Records of all noise monitoring shall be maintained and provided to Council on request.



- b) Representative noise levels shall be measured and assessed in accordance with the methods specified in Condition 5, and as set out in the Noise Management Plan (Condition 7).
- c) The consent holder shall, unless otherwise directed to do so by Council following consultation with the consent holder, provide a summary report to the Council at the end of each 3 month period from commencement of work Trio Underground mining operations to completion on the following:
  - (i) Results of the noise monitoring that is of direct relevance to the Trio Underground Mine Project;
  - (ii) All complaints received during the previous 3 month period, action taken by the consent holder and the resolution (if any); and
  - (iii) Any other matters of concern raised with the consent holder.

#### 7. Noise Management Plan

The consent holder shall, 1 month prior to the exercise of this consent, prepare a noise management plan for the Trio Underground Mine Project for the written approval of the Manager Environment and Planning, Hauraki District Council. The objective of this plan is to detail the methods to be used to comply with Conditions 5 and 6 of this consent.

**APPENDIX 5 CORRENZO – HDC LUC# RC-202.2012 NOISE  
CONDITIONS**

## Noise

- 7 All noise associated with the use of existing facilities and infrastructure by the Correnso Underground Mine provided for under ML32 2388 and the Extended Project and Favona and Trio land use consents referenced in Condition 2 above and identified in Schedule A of this consent shall not exceed the applicable Noise Level limits contained in the existing licences and consents identified in Schedule A of this consent.
- 8 The mean corrected noise level (L10) arising from the construction, operation and decommissioning of the Correnso Underground Mine vent shaft shall not exceed the limits shown in Figure 2 – Noise Monitoring Sites attached to this consent and specified below:

		55 dBA Control Boundary	50 dBA Control Boundary
Monday – Friday	0700-2100	55 dBA	50 dBA
Saturday	0700-1200	55 dBA	50 dBA
All other times		40 dBA	40 dBA

- 9 The mean corrected noise level (L10) arising from the construction, operation and decommissioning of the Correnso Underground Mine cemented aggregate fill plant at any point measured on the boundary of any Residential, Rural Residential, Reserve (Passive), Industrial (Light) zoned site or the notional boundary of any occupied rural dwelling site within the Rural Zone shall not exceed the limits specified below:

Monday - Friday	0700-2100	55 dBA
Saturday	0700-1200	55 dBA
All other times		40 dBA

- 10 Except as provided for in Condition 8, all noise associated with the Correnso Underground Mine shall be measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the consent holder or related company, or not subject to an agreement with the consent holder or related company. In the event that a property is sold and ceases to be subject to an agreement between the consent holder (or related company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related company) and the landowner, the measurement of noise shall revert to being on or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

The noise shall be measured cumulatively with other noise emanating from the Martha Mine and the Favona and Trio Underground Mines (should there be simultaneous operations), all operations within the process plant area, operations within the waste and tailings area, and the conveyor and associated activities.

The daytime measurement periods to determine the L10 shall be representative of any single working day and shall consist of at least three measurement periods of at least 15 minutes duration each, in any non-consecutive 60-minute periods spread over the working day.

The mean corrected noise level shall be calculated on an energy basis from the measurements and no single corrected measured level shall exceed the permitted mean level by more than 5dBA.

Subject to the express provisions in this condition, the noise levels shall be measured and assessed in accordance with the requirements of the New Zealand Standards NZS6801:1999, Measurement of Environmental Sound and NZS6802:1991, Assessment of Environmental Sound.

- 11 Noise Monitoring and Reporting
- a) The consent holder shall undertake the monitoring required by these conditions at its cost. Noise monitoring to confirm compliance with the noise levels in Conditions 7, 8 and 9 shall be undertaken as follows:

- i) Unless it can be demonstrated that adverse weather conditions prevented noise monitoring on each day of the seven day period, the consent holder shall monitor noise levels for the site at weekly intervals for 6 weeks from:
  - Commencement of construction of the ventilation shaft in the Surface Facilities Area; and
  - Commencement of the Correnso Underground Mine.
- ii) Monitoring of noise from the operation of the ventilation fan shall be undertaken on two separate nights. This monitoring shall be undertaken within 2 months of the ventilation fan being installed and operating.

If the monitoring required in i) and ii) above demonstrates compliance with the noise limits, noise monitoring shall be undertaken thereafter at intervals not exceeding three months for the duration of the activity identified above.

In the event that noise limits are exceeded then monitoring shall continue at weekly intervals while steps are undertaken to comply with Conditions 7, 8 and 9. Such measures to comply with Conditions 7, 8 and 9 shall be implemented immediately.

- iii) Such ongoing monitoring shall be undertaken in conjunction with the Martha Mining Licence (ML 32 2388), the Extended Project Land Use Consent (97/98-105), the Favona Land Use Consent (85.050.326E) and the Trio Land Use Consent (RC-15774).
- b) Records of all noise monitoring shall be maintained and provided to Council on request.
- c) Representative noise levels shall be measured and assessed in accordance with the methods specified in Condition 10, and as set out in the Noise Management Plan (Condition 12).
- d) The consent holder shall, unless otherwise directed to do so by Council following consultation with the consent holder, provide a summary report to the Council at the end of each 3 month period from commencement of work to completion on the following:
  - i) Results of the noise monitoring that is of direct relevance to the Correnso Underground Mine; and
  - ii) All complaints received during the previous 3 month period, action taken by the consent holder and the resolution (if any); and
  - iii) Any other matters of concern raised with the consent holder.

## 12 Noise Management Plan

The consent holder shall prepare a Noise Management Plan for the written approval of the Council. The objective of the Plan is to detail the methods to be used to comply with Conditions 7, 8, 9, 10 and 11 of this consent. This Plan shall be submitted to the Council at least 1 month prior to the exercise of this consent and the consent shall not be exercised until the Noise Management Plan has been approved by the Council. The Noise Management Plan may be reviewed and amended from time to time, subject to the approval of Council but not in a manner inconsistent with these conditions.

Advice note:

The Noise Management Plan may be prepared in conjunction with Noise Management Plans prepared in accordance with the consent requirements applying to other mines in the Waihi Area.

**APPENDIX 6 MARTHA DRILL DRIVE PROJECT – HDC LUC#  
202.2017.664.001 NOISE CONDITIONS**

## Noise

- 7 Prior to the installation of the ventilation fan, the consent holder shall provide an acoustic report, prepared by a suitably qualified and experienced acoustical consultant to the Hauraki District Council for its certification. The acoustic report shall include the manufacturer's noise data for the ventilation fan the predicted noise levels at critical neighbouring sites, a recommendation on whether silencers are required to ensure compliance with the noise limits in condition 9 (on a cumulative basis), and the acoustic performance of any silencers, if required. Should the Council (in liaison with an independent, suitably qualified noise expert) refuse to certify the report, it will explain its reasons and the consent holder shall submit a revised report to Council. The fan shall not be operated until the report is certified.
- 8 Noise associated with the use of existing facilities and infrastructure by the MDDP provided for in the licences and consents identified in Schedule A of this consent shall not exceed the applicable noise level limits contained in the existing licences and consents identified in those licences and consents.
- 9 The mean corrected noise level ( $L_{Aeq}$ ) arising from the construction, operation and decommissioning of the inlet ventilation portal and fan located in the south-west wall of the Martha Pit shall not exceed the limits shown in Figure 2 – Noise Control Boundaries and specified below:

		55 dBA Control Boundary	50 dBA Control Boundary
Monday – Friday	0700-2100	55 dBLAeq	50 dBLAeq
Saturday	0700-1200	55 dBLAeq	50 dBLAeq
All other times		40 dBLAeq	40 dBLAeq

- 10 All noise associated with the MDDP shall be measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the consent holder or related company, or not subject to an agreement with the consent holder or related company. In the event that a property is sold and ceases to be subject to an agreement between the consent holder (or related company) and the purchaser, or in the event that there is no longer an agreement between the consent holder (or related company) and the landowner, the measurement of noise shall revert to being on or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.

The noise shall be measured cumulatively with other noise emanating from the Martha Mine and the underground mines of Favona, Trio, CEPPA and SUPA (should there be simultaneous operations), all operations within the process plant area, operations within the waste and tailings area, and the conveyor and associated activities.

Subject to the express provisions in this condition, the noise levels shall be measured in accordance with the provisions of New Zealand Standard NZS6801:2008 Acoustics - Measurement of Environmental Sound and assessed in accordance with the provisions of NZS6802:2008 Acoustics - Environmental Noise.

## 11 Noise Monitoring and Reporting

- a. The consent holder shall undertake the monitoring required by these conditions at its cost. Noise monitoring to confirm compliance with the noise levels in conditions, 8, 9 and 10 shall be undertaken as follows:
- Unless it can be demonstrated that adverse weather conditions prevented noise monitoring on each day of the seven day period, the consent holder shall monitor noise levels for the site at weekly intervals throughout the period of construction of the ventilation portal.
  - Monitoring of noise from the operation of the ventilation fan shall be undertaken on two separate nights. This monitoring shall be undertaken within two months of the ventilation fan being installed and operating.

- iii. If the monitoring required in i) and ii) above demonstrates compliance with the noise limits, noise monitoring shall be undertaken thereafter at intervals not exceeding three months for the duration of the activity identified above.

In the event that noise limits are exceeded then monitoring shall continue at weekly intervals while steps are undertaken to comply with conditions 8, 9 and 10. Such measures to comply with conditions 8, 9 and 10 shall be implemented immediately.

- iv. Such ongoing monitoring shall be undertaken in conjunction with that required under the licences and consents identified in Schedule A of this consent.

Records of all noise monitoring shall be maintained and provided to Council on request.

Representative noise levels shall be measured and assessed in accordance with the methods specified in condition 10, and as set out in the Noise Management Plan (condition 12).

The consent holder shall, unless otherwise directed to do so by Council following consultation with the consent holder, provide a summary report to the Council at the end of each three month period from commencement of work to completion on the following:

- v. Results of the noise monitoring that are of direct relevance to the MDDP; and
- vi. All complaints received during the previous three month period, action taken by the consent holder and the resolution (if any); and
- vii. Any other matters of concern raised with the consent holder.

## 12 Noise Management Plan

The consent holder shall prepare a Noise Management Plan for the written approval of the Council. The objective of the Plan is to detail the methods to be used to comply with conditions 8 to 11 of this consent. This Plan shall be submitted to the Council at least two weeks prior to the exercise of this consent and the consent shall not be exercised until the Noise Management Plan has been approved by the Council. The Noise Management Plan may be reviewed and amended from time to time, subject to the approval of Council but not in a manner inconsistent with these conditions.

Advice note:

The Noise Management Plan may be prepared in conjunction with Noise Management Plans prepared in accordance with the consent requirements applying to other mines in the Waihi Area.

**APPENDIX 7 PROJECT MARTHA – HDC LUC# 202.2018.857.001 NOISE  
CONDITIONS**



## HOURS OF WORK

8. Permissible operating hours within the Martha Pit (including the operation of the mobile crusher) and Surface Facilities Area shall be restricted to:

Monday to Friday 0700 – 2100; and

Saturday 0700 - 1200

The above hours of work apply provided that operations are only permitted between 1900 and 2100 on Monday - Friday if the operations are of an urgent nature and necessary for the effective carrying out of mining activities and that they comply with the noise limits specified in Condition 22.

Details of operations conducted between 1900 - 2100 on Monday - Friday shall be recorded and made available to the Council on request.

The above hours of work do not apply with respect to the use of water trucks for controlling dust so long as the activity complies with the noise limits specified in Condition 22.

9. Underground mining activities authorised by this consent may be carried out 24 hours per day, seven days per week.
10. Vehicle access to, and from, the Martha Underground Mine via the Martha Pit may be carried out 24 hours per day, seven days per week provided the activity complies with the noise limits specified in Condition 22.
11. Hauling ore and waste rock between the open pit portals and in pit stockpiles and associated stockpiling and rehandling, and the use of the pit lake filling corridor may be carried out 24 hours per day, seven days per week provided these activities comply with the noise limits specified in Condition 22.
12. Ventilation shafts and fresh air / return air portals, and the cement aggregate fill plant, authorised by this consent may be operated 24 hours per day, seven days per week provided these activities comply with the noise limits specified in Conditions 22 and 23.
13. Maintenance activities may be carried out 24 hours per day, seven days per week provided this activity complies with the noise limits specified in Conditions 22 and 23

## CONSTRUCTION ACTIVITIES

14. The construction noise conditions in this consent apply to the following activities authorised as part of this consent:
- All works associated with the construction of the noise bund / fencing;
  - The construction of the cement aggregate fill plant;
  - The rehabilitation of the Martha Pit;
  - The construction of the intake structure, associated infrastructure and pipeline for the pit lake.
  - The construction of the outlet and discharge structure for the pit lake; and
  - The construction of the limestone addition plant for the pit lake.
15. All construction activities authorised by this consent shall not exceed the following noise limits within the boundary of Waihi Central School during the school term:

Monday – Friday	L <sub>Aeq</sub>	L <sub>AFmax</sub>
0830 - 1500	55 dB	75 dB

16. At all locations, including the Waihi Central School outside the times specified in Condition 15, all construction activities authorised by this consent shall not exceed the following noise limits:

Monday – Friday	Saturdays	L <sub>Aeq</sub>	L <sub>AFmax</sub>
0630 - 0730		60 dB	75 dB
0730 - 1800	0730 – 1800	75 dB	90 dB
1800 - 2000		70 dB	85 dB

17. At all other times, including Sundays and public holidays, the noise level from all construction activities authorised by this consent shall not exceed 40 dB L<sub>Aeq</sub>.
18. Construction noise shall be managed, measured and assessed in accordance with New Zealand Standard *NZS6803:1999 Acoustics – Construction Noise*.
19. All construction noise shall be measured at any occupied dwelling\* not owned by the consent holder or related company, or not subject to an agreement with the consent holder or related company.
- \* 'Occupied' dwelling means any building or part of a building lawfully used for residential purposes.
20. The construction noise limits above shall not apply to any property or site that is:
- Owned by the consent holder or a related company; or
  - Owned by a third party which is subject to either a registered covenant or a written agreement (a copy of which is provided to the Council) whereby noise effects on the property caused by activities authorised under this consent are not to be taken into account for monitoring and compliance purposes.
21. The consent holder shall prepare a Noise Management Plan for certification by the Council. The objective of the Noise Management Plan is to provide detail on how compliance with Conditions 15 to 18 will be achieved for the duration the construction activities referred to in Condition 14.

As a minimum, the Noise Management Plan shall consider the requirements of Annex E of New Zealand Standard *NZS6803:1999 Acoustics – Construction Noise*, design limits, complaints procedures and noise monitoring. With respect to noise monitoring, the Noise Management Plan shall record that the company will assess and record representative noise levels on a weekly basis during construction activities and provide a summary report to the Council on a three-monthly basis.

The Noise Management Plan shall be submitted to the Council at least 20 working days prior to the first exercise of this consent. If certification is not provided within 20 working days of Council's receipt of the Noise Management Plan activities authorised by this consent may commence. The Noise Management Plan may be reviewed and amended from time to time, subject to the certification of the Council but not in a manner inconsistent with these conditions.

#### Advice Note:

The Noise Management Plan may be prepared in conjunction with any Noise Management Plans prepared in accordance with the consent or permitted activity performance standards requirements applying to the consent holder's other mines in the Waihi area.

#### Operational Noise

22. The noise level (L<sub>Aeq</sub>) around the Martha Pit arising from mining and mining related activities shall not exceed the limits specified below:

Monday – Friday	0700 - 2100	50 dB
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Saturday	0700 - 1200	50 dB
All other times		40 dB
Monday - Sunday	2100 - 0700	70 dB LAF max

23. The noise level (LAeq) associated with the use of the cement aggregate fill plant, Favona portal and polishing pond stockpiles and the pit lake filling pipeline corridor shall not exceed the limits specified below:

Monday – Friday	0700 - 2100	55 dB
Saturday	0700 - 1200	55 dB
All other times		40 dB

24. Operational noise shall be measured in accordance with the provisions of New Zealand Standard *NZS6801:2008 Acoustics – Measurement of Environmental Sound* and assessed in accordance with the provisions of New Zealand Standard *NZS 6802:2008 Acoustics – Environmental Noise*.
25. All operational noise shall be measured at any occupied dwelling not owned by the consent holder or related company or not subject to an agreement with the consent holder or related company.
26. The operational noise limits shall not apply to any property or site that is:
- Owned by the consent holder or a related company; or
  - Owned by a third party which is subject to either a registered covenant or a written agreement (a copy of which is provided to the Council) whereby noise effects on the property caused by activities authorised under this consent are not to be taken into account for monitoring and compliance purposes).

26A. The consent holder shall, unless otherwise directed to do so by Council following consultation with the consent holder, provide a summary report to the Council at the end of each three-month period from commencement of work to completion on the following:

- Results of the noise monitoring that is of direct relevance to the Martha Pit; and
  - All complaints received during the previous three-month period, action taken by the consent holder and the resolution (if any); and
  - Any other matters of concern raised with the consent holder.
27. The consent holder shall prepare a Noise Management Plan for certification by the Council. The objective of the Noise Management Plan is to provide detail on how compliance with Conditions 22 to 24 will be achieved for the duration the consent.

With respect to noise monitoring, the Noise Management Plan shall require that the company assess and record representative noise levels at intervals not exceeding six months during mining and related activities and provide a summary report following the completion of each monitoring event.

The Noise Management Plan shall be submitted to the Council at least 20 working days prior to the first exercise of this consent. If certification is not provided within 20 working days of Council's receipt of the Noise Management Plan activities authorised by this consent may commence. The Noise Management Plan may be reviewed and amended from time to time, subject to the certification of the Council but not in a manner inconsistent with these conditions.

Advice Note:

The Noise Management Plan may be prepared in conjunction with any Noise Management Plans prepared in accordance with the consent or permitted activity performance standards requirements applying to the consent holder's other mines in the Waihi area.

**APPENDIX 8 TSF2 CREST RAISE PREPARATION WORKS – HDC LUSE  
202.2018.00000812.001 NOISE CONDITIONS**

9. All activities associated with the TSF2 crest raise in combination with activities authorised by Hauraki District Plan Rule 5.17.4.1 P1 shall not exceed the following limits when measured over the periods specified below, at or within the boundary of any residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone:

Monday-Friday	0700-2100	55dB LAeq
Saturday	0700-1200	55dB LAeq
All other times		40dB LAeq
	2100-0700 (the following day)	70dB LAFmax

10. All noise shall be measured within or close to the boundary of any residentially zoned site or the notional boundary of any occupied rural dwelling site not owned by the licence holder or related Company or not subject to an agreement with the licence holder or related Company.
11. In the event that a property is sold and ceases to be subject to an agreement between the licence holder (or related Company) and the purchaser, or in the event that there is no longer an agreement between the licence holder (or related Company) and the landowner, the location for the measurement of noise shall revert to being on or close to the boundary of that residentially zoned site or the notional boundary of the occupied rural site.
12. Noise shall be measured in accordance with the provisions of New Zealand Standard NZS 6801:2008 Acoustics – Measurement of Environmental Sound and assessed in accordance with the provisions of NZS6802:2008 Acoustics – Environmental Noise.

### **Noise Management Plan**

13. The consent holder shall prepare a Noise Management Plan. This Management Plan shall be submitted to and approved by Hauraki District Council. The objective of this plan is to detail the methods to be used to comply with conditions 9 to 12 including a programme of noise monitoring. This Plan shall be submitted to the Council at least 1 month prior to the exercise of this consent and the consent shall not be exercised until the Noise Management Plan has been approved by the Council. The Noise Management Plan may be reviewed and amended from time to time, subject to approval of Council but not in a manner inconsistent with these conditions.

#### Advice Note:

The Noise Management Plan may be prepared in conjunction with Noise Management Plans prepared in accordance with the consent requirements for other mines in the Waihi Area.

**APPENDIX 9 TSF1A CREST RAISE WORKS – HDC LUSE  
202.2021.00001466.001 NOISE CONDITIONS**

2. The activities authorised by this consent shall be:

- (a) Carried out in general accordance with the plans and information submitted in the application; and
- (b) Subject to the terms and conditions in expired Mining Licence 32 2388 and expired Land Use Consent 97/98-105 insofar as they apply to land the subject of this application, with all references to the 'Minister' in mining Licence 32 2388 meaning 'Hauraki District Council';

Except as amended by the conditions set out below.

Advice note: Copies of expired Mining Licence 32 2388 and expired Land Use Consent 97/98-105 contain conditions addressing the following which apply to the works authorised by this consent:

- Provision of an annual work programme;
- Appointment of a Company Liaison Officer;
- Hours of work;
- Noise;
- Fencing;
- Lighting;
- Compliance of buildings (which includes the TSF1A structure) with the New Zealand Building Code;
- Rehabilitation; and
- Insurance, bond, and trust requirements.

## **APPENDIX 10 OGNZL STABILITY CUTBACK MEMORANDUM OF UNDERSTANDING**



## **MEMORANDUM OF UNDERSTANDING**

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**between**

**OCEANA GOLD (NEW ZEALAND) LTD**

**and**

**HAURAKI DISTRICT COUNCIL**

***Dated: 25 November 2016***

## **BACKGROUND**

1. This Memorandum of Understanding is entered into between Hauraki District Council ("the Council") and Oceana Gold (New Zealand) Ltd ("OGNZL").
2. The Council is a territorial authority constituted under the Local Government Act 2002.
3. OGNZL is the holder of the necessary mining licence and resource consents for various mining projects in and around Waihi. OGNZL and its predecessor companies have been undertaking mining operations in the area for the past 29 years.

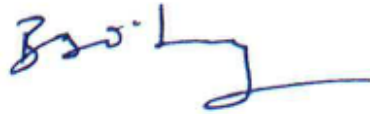
## **STATEMENT OF INTENT**

4. The intention of this Memorandum of Understanding is to express the commitment on the part of both the Council and OGNZL to continue to act in a socially responsible manner. The parties commit to respond in a timely manner, and engage in meaningful dialogue, when issues relating to potential nuisance effects on members of the Waihi community arise with respect to OGNZL mining operations.

## **COMMITMENTS OF THE PARTIES**

5. The parties commit to the establishment of a project-focussed working party, constituted by representatives from both the Council and OGNZL, and at a minimum, will include the HSEC Manager for OGNZL or their delegate. Consideration may be given to the involvement of a community representative. Technical advisors may also be called to take part in discussions where appropriate.
6. The parties commit to meaningfully discuss in a timely manner, any issues and legitimate unresolved complaints arising from activities being undertaken in relation to the mining operations in and around the urban area of Waihi. Initially complaints will be responded to through the processes set out in the mitigation and management plans and the complaints procedure, regardless of whether consent limits are exceeded.
7. The parties commit to promptly implement any agreed actions to address issues or legitimate complaints, whether that be by way of amendments to the management and mitigation plans, or by other means.
8. The parties agree to meet to discuss how unresolved complaints, other than those considered to be vexatious, are to be addressed, and to discuss technical issues relating to effects and actual or proposed mitigation responses.
9. The Council commits to identifying an employee to act as the Council Liaison Officer (in accordance with conditions 3.4 of Land Use consent No. 97/98 – 105 and 7B of ML 32 2388). The Council Liaison Officer is the person to whom all complaints and issues raised by the Waihi community are to be directed in the first instance. The Council Liaison Officer will liaise with the Company Liaison Officer and, as necessary, with the working party.

The above intention and commitments are agreed to by the Council and OGNZL as shown by the signatures below:

A handwritten signature in blue ink, appearing to read 'Bernie O'Leary', with a long horizontal flourish extending to the right.

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Bernie O'Leary  
General Manager for  
OGNZL – Waihi Operations

A handwritten signature in blue ink, appearing to read 'Langley Cavers', with a large, stylized 'L' and 'C'.

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Langley Cavers  
Chief Executive Officer for  
Hauraki District Council

**APPENDIX 11 Waihi North Project - Conditions for the Hauraki  
District Council Land Use Consents CONSTRUCTION,  
OPERATIONAL AND HELICOPTER NOISE CONDITIONS**

	Condition
1	<p>The activities authorised by this consent include those listed below, which are to be undertaken in general accordance with the descriptions in the Application and supporting technical documents submitted by OceanaGold New Zealand Limited to the Environment Protection Authority in support of authorisations for the Waihi North Project under the Fast-track Approvals Act 2024 ("Act"). The areas within which these activities will occur are depicted on Map 1 provided in <b>Attachment 1</b> to this consent.</p> <p>The consent must be exercised in accordance with those existing authorisations contained in Part E.02 of the Application and supporting technical documents submitted by OceanaGold New Zealand Limited to the Environment Protection Authority in support of authorisations for the Waihi North Project under the Act. Prior to the exercise of the consent, the consent holder must advise the Hauraki District Council which of these authorisations (and related conditions) are to be superseded by this consent, and make application to surrender or vary those consents accordingly. Until such time as that occurs, the conditions of those consents continue to apply.</p> <p>a. Within the Biodiversity Project Area:</p> <ol style="list-style-type: none"> <li>Pest control and habitat enhancement works; and</li> <li>Ecological monitoring activities</li> </ol> <p>b. Within Area 1:</p> <ol style="list-style-type: none"> <li>Clearance of indigenous vegetation within a Significant Natural Area (<b>SNA</b>) to enable the establishment of Drill Sites and Vent Shaft / Pump Test Sites;<sup>1</sup></li> <li>Exploration, mining operations and underground mining, including: <ol style="list-style-type: none"> <li>Establishment of tunnels to the Wharekirauponga orebody (Wharekirauponga Mine Dual Tunnel);</li> <li>Establishment of up to four ventilation shafts and associated surface ventilation sites, including ventilation easements and onsite construction amenities;</li> <li>Establishment of Drill Sites, Vent Shaft / Pump Test Sites in the Coromandel Forest Park ("<b>CFP</b>"), including drilling platforms and all necessary associated infrastructure;</li> <li>Establishment of Water Pump Sites<sup>2</sup> to service drilling activities;</li> <li>Exploration and investigative drilling, allowing for simultaneous operation of six surface drill rigs, of which a maximum of five may be platform-based rigs (the balance (1) being portable rig(s)). This is inclusive of previously authorised exploration activity within Area 1;</li> <li>Establishment and use of, camp facilities and supporting amenity facilities such as portaloos, showers, and kitchens on sites previously cleared/used for Exploration or investigative drilling;</li> <li>Use of existing helipads and establishment of new helicopter landing facilities at investigative or exploratory Drill Sites, and Vent Shaft / Pump Test Sites (a total of 4 non-Man-portable sites used as helipads);</li> </ol> </li> </ol>

<sup>1</sup> For the purpose of these conditions, a "Drill Site" means a site used for exploration or investigative drilling, which is undertaken using a fixed drill rig mounted on a platform, and a "Vent Shaft / Pump Test Site" means a site used for constructing a vent shaft or undertaking a pumping test.

<sup>2</sup> For the purpose of these conditions, a Water Pump Site means any site where a water pump is situated to pump water from a stream.

	Condition
	<ul style="list-style-type: none"> <li>viii. Accessing Drill Sites, Vent Shaft / Pump Test Sites by helicopter, with landings limited to approved helipad sites;</li> <li>ix. Erection and maintenance of security fencing;</li> <li>x. Exploration and investigative drilling from underground and surface Drill Sites and Portable Rig Sites<sup>3</sup>;</li> <li>xi. Establishment of walking tracks to access Drill Sites, Vent Shaft / Pump Test Sites, and monitoring equipment;</li> <li>xii. Establishment of mine access tunnels;</li> <li>xiii. Development, stoping and mining of the orebody;</li> <li>xiv. Drilling, blasting, earthworks and the removal of waste material and ore;</li> <li>xv. Injection of cementation or other grout or sealant into ground for geotechnical and/or hydrogeological requirements;</li> <li>xvi. Backfilling of underground voids with rock, cemented rock fill (CRF) or cemented aggregate fill (CAF);</li> <li>xvii. Underground rock storage and stockpile areas;</li> <li>xviii. Establishment of an underground explosives magazine;</li> <li>xix. Establishment of an underground workshop to service and maintain mine equipment;</li> <li>xx. Establishment of communications and general amenities within the tunnels;</li> <li>xxi. Establishment of refuge chambers, tunnel recesses and other areas necessary to effectively complete mining of the orebody;</li> <li>xxii. Establishment of sumps, pumps, pipelines, electrical equipment, ventilation infrastructure and other equipment to effectively and efficiently complete mining of the orebody;</li> <li>xxiii. Use of a range of mining equipment to service the mine;</li> <li>xxiv. Storage and use of hazardous substances;</li> <li>xxv. Installation and use of monitoring equipment including piezometers, standpipes, telemetry nodes, weather stations, vibration monitoring equipment, level loggers and any ancillary monitoring equipment necessary to exercise this consent;</li> <li>xxvi. Maintenance of all equipment and installations;</li> <li>xxvii. Restoration, mitigation and enhancement planting, habitat enhancement and pest control;</li> <li>xxviii. Fauna salvage and monitoring;</li> <li>xxix. The establishment and maintenance of electric fencing around fauna release sites and fencing within fauna release sites;</li> <li>xxx. The establishment and maintenance of frog / lizard exclusion fences around Drill Sites; Vent Shaft / Pump Test Site;</li> <li>xxxi. Any fauna salvage undertaken in accordance with the ELMP-WUG;</li> <li>xxxii. Rehabilitation and closure activities.</li> </ul>

<sup>3</sup> For the purpose of these conditions, a "Portable Rig Site" means any location at which a man-portable drilling rig is used for any purpose.

	Condition
	<p>xxxiii. Installation of surface and groundwater monitoring devices, including piezometers installed in drilled holes, adjacent to Natural State Water Bodies and Natural Inland Wetlands; and</p> <p>xxxiv. Undertaking of surface and groundwater monitoring in Natural State Water Bodies and Natural Inland Wetlands.</p>
	<p>c. Within Area 2:</p> <ul style="list-style-type: none"> <li>i. Establishment and use of the Willows Portal and associated infrastructure;</li> <li>ii. Establishment and use of the Willows Access Tunnel from Willows Portal to the Wharekirauponga Mine Dual Tunnel (tunnel decline to the boundary of the property shared with the Coromandel (Indigenous Forest) Zone) and associated infrastructure;</li> <li>iii. Injection of cementitious or other grout / sealant into ground for geotechnical and/or hydrogeological requirements;</li> <li>iv. Establishment of refuge chambers, tunnel recesses and other areas necessary to effectively complete mining of the orebody;</li> <li>v. Establishment of sumps, pumps, pipelines, electrical equipment, ventilation infrastructure and other equipment to effectively and efficiently complete mining of the orebody;</li> <li>vi. Drilling, blasting, earthworks and the removal of material;</li> <li>vii. Establishment and use of a ventilation shaft for the Willows Access Tunnel and associated infrastructure;</li> <li>viii. Vegetation clearance;</li> <li>ix. Earthworks including topsoil removal and stockpiling and the implementation of sediment control measures;</li> <li>x. Establishment of bunds, screens and security fencing;</li> <li>xi. Establishment of services and water management systems;</li> <li>xii. Establishment and use of the Willows Rock Stack and associated infrastructure;</li> <li>xiii. Establishment and use of topsoil, limestone and other non-acid forming material stockpiles;</li> <li>xiv. Establishment of silt, collection, and sediment ponds, and chemical treatment devices;</li> <li>xv. Establishment of a surface explosives magazine;</li> <li>xvi. Installation and use of a substation and switch room;</li> <li>xvii. Installation and use of electricity generators;</li> <li>xviii. Establishment, use and lighting of offices, amenity facilities and workshops; laydown yards, water and wastewater services, emergency response facilities, security hut, boom gate, and other mine services (such as a first aid room, crib room, change house, and stores building);</li> <li>xix. Establishment and use of refuelling facilities, including fuel storage tanks;</li> <li>xx. Establishment of vehicle crossings from Willows Road to the Willows SFA;</li> <li>xxi. Construction of internal access roads and parking areas;</li> <li>xxii. Establishment and operation of a helipad and associated carparking.</li> <li>xxiii. Erection of internal signs to provide directions, safety instructions and information for staff and visitors within the site;</li> <li>xxiv. Storage and use of hazardous substances;</li> </ul>

	Condition
	<ul style="list-style-type: none"> <li>xxv. Installation and use of monitoring equipment, including piezometers in subsurface drilled holes, standpipes, vibration monitoring equipment, subsidence monitoring and all other necessary monitoring equipment necessary to exercise this consent;</li> <li>xxvi. Disturbance of soil and change of the land use at a Hazardous Activities and Industries List (HAIL) site;</li> <li>xxvii. Underground and surface infrastructure including conveyance of compressed air, water, communications and electricity;</li> <li>xxviii. Maintenance of all equipment and installations;</li> <li>xxix. Rehabilitation and closure activities;</li> <li>xxx. Restoration, mitigation and enhancement planting, habitat enhancement and pest control; and</li> <li>xxxi. Any fauna salvage undertaken in accordance with the ELMP—Waihi Area.</li> </ul> <p>d. Within Area 3:</p> <ul style="list-style-type: none"> <li>i. Construction, operation and maintenance of the Wharekirauponga Access Tunnel and associated infrastructure, including the new access portal for the Tunnel;</li> <li>ii. Drilling, blasting, earthworks and the removal of material;</li> <li>iii. The removal of excavated rock material from Area 3 for placement into existing underground mines for backfill;</li> <li>iv. Injection of cementitious or other grout / sealant into ground for geotechnical and/or hydrogeological requirements;</li> <li>v. Erection and maintenance of security fencing and a security hut;</li> <li>vi. Establishment and use of monitoring equipment, including piezometers in subsurface drilled holes, standpipes, vibration monitoring equipment, subsidence monitoring and all other necessary monitoring equipment necessary to exercise this consent;</li> <li>vii. Use of hazardous substances;</li> <li>viii. Maintenance of all equipment and installations;</li> <li>ix. Restoration, mitigation and enhancement planting, habitat enhancement and pest control; <del>and</del></li> <li>x. Any fauna salvage undertaken in accordance with the ELMP—Waihi Area; and</li> <li>xi. Rehabilitation and closure activities.</li> </ul> <p>e. Within Area 5:</p> <p><b>Activities Specifically Related to the Gladstone Open Pit (GOP)</b></p> <ul style="list-style-type: none"> <li>i. Surface mining of GOP (including drilling and blasting);</li> <li>ii. Partial backfilling and lining of GOP in preparation for tailings disposal;</li> <li>iii. Disposal of tailings within GOP TSF;</li> <li>iv. Capping of the GOP TSF with rock and soil, and undertaking rehabilitation activities;</li> <li>v. Capping of any potentially acid forming (PAF) pit walls above the spillway level;</li> </ul> <p><b>Other (Non-Gladstone Open Pit Specific) Activities</b></p> <ul style="list-style-type: none"> <li>vi. Establishment and use of a new access portal(s) for the Wharekirauponga Access Tunnel and to provide a new access Portal to the existing Martha Underground Mine;</li> <li>vii. Drilling, blasting, earthworks and the removal of material</li> </ul>



	Condition
	<ul style="list-style-type: none"> <li>viii. The removal of excavated rock material from Area 5 for placement in existing underground mines for backfill;</li> <li>ix. Injection of cementitious or other grout / sealant into ground for geotechnical and/or hydrogeological requirements;</li> <li>x. Underground and surface infrastructure including conveyance of compressed air, water, communications and electricity;</li> <li>xi. Exploration and investigative drilling and the installation of piezometers and other monitoring equipment associated with the establishment and operation of GOP and associated infrastructure;</li> <li>xii. Clearance of vegetation, earthworks including stripping and stockpiling of topsoil, and the implementation of sediment control measures;</li> <li>xiii. Erection and maintenance of security fencing;</li> <li>xiv. Establishment and use of a topsoil stockpile adjacent to GOP;</li> <li>xv. Establishment of bunds or screens;</li> <li>xvi. Establishment and use of water management infrastructure, including new diversion and dewatering drains and storage ponds;</li> <li>xvii. Formation and use of internal access roads;</li> <li>xviii. Transportation of crushed rock, either by conveyor or vehicles;</li> <li>xix. Disestablishment of the existing Favona Portal and related infrastructure;</li> <li>xx. Upgrades to the existing conveyor system;</li> <li>xxi. Hauling and/or conveying of rock to, from and between the new access portal(s), GOP, Polishing Pond Stockpile, Run of Mine Stockpile, Favona Stockpile, the Northern Rock Stack or TSF 3;</li> <li>xxii. Temporary stockpiling of limestone;</li> <li>xxiii. Establishment and operation of carparking facilities;</li> <li>xxiv. Relocation of any existing overhead or underground power lines, water and / or communication cables;</li> <li>xxv. Upgrade and operation of the Processing Plant to process up to 2.25 million tonnes of ore per annum;</li> <li>xxvi. Upgrade and operation of the existing Water Treatment Plant;</li> <li>xxvii. Continued use of other existing facilities and infrastructure within the Waihi SFA, including the helipad, maintenance workshop, store, office and amenity facilities (as identified in Section 2.10 of the Substantive Application Report);</li> <li>xxviii. Erection of internal signs to provide directions, safety instructions and information for staff and visitors within the site;</li> <li>xxix. Storage and use of hazardous substances;</li> <li>xxx. Disturbance of soil and change of the land use at a Hazardous Activities and Industries Lis (HAIL) site;</li> <li>xxxi. Maintenance of all equipment and installations;</li> <li>xxxii. Rehabilitation and closure activities;</li> <li>xxxiii. Restoration, mitigation and enhancement planting, habitat enhancement and pest control; and</li> </ul>

	Condition
	<p>xxxiv. Any fauna salvage undertaken in accordance with the ELMP—Waihi Area.</p> <p>f. Within Area 6:</p> <ul style="list-style-type: none"> <li>i. Vegetation clearance;</li> <li>ii. Temporary and permanent storage of rock, including the establishment and operation of the Northern Rock Stack and associated infrastructure;</li> <li>iii. Earthworks including stripping and stockpiling of topsoil and subsoil from the Northern Rock Stack footprint;</li> <li>iv. Removal or relocation of existing structures, including any OGNZL owned dwelling, workshop structures, a fuel bowser and grease storage facilities;</li> <li>v. Relocation of any existing overhead or underground power lines, water and / or communication cables;</li> <li>vi. Establishment and use of water management infrastructure including diversion drains, pumps, pipelines and silt and collection ponds and associated spillways and discharge channels;</li> <li>vii. Installation and use of monitoring equipment, including piezometers in subsurface drilled holes, standpipes, vibration monitoring equipment, subsidence monitoring and all other necessary monitoring equipment necessary to exercise this consent;</li> <li>viii. Upgrades to the existing conveyor system;</li> <li>ix. Mining activities, including drilling, blasting and excavation at the Western Borrow Area;</li> <li>x. The removal of excavated rock material from Area 6 for placement in existing underground mines for backfill;</li> <li>xi. Establishment and use of an explosives magazine;</li> <li>xii. Formation and use of internal access roads and parking areas;</li> <li>xiii. Installation of security fencing;</li> <li>xiv. Storage and use of hazardous substances;</li> <li>xv. Erection of internal signs to provide directions, safety instructions and information for staff and visitors within the site;</li> <li>xvi. Disturbance of soil and change of land use at a Hazardous Activities and Industries Lis (HAIL) site associated with rehabilitation works;</li> <li>xvii. Excavation at the western borrow area;</li> <li>xviii. Maintenance of all equipment and installations;</li> <li>xix. Rehabilitation and closure activities;</li> <li>xx. Restoration, mitigation and enhancement planting, habitat enhancement and pest control; and</li> <li>xxi. Any fauna salvage undertaken in accordance with the ELMP—Waihi Area.</li> </ul> <p>g. Within Area 7:</p> <ul style="list-style-type: none"> <li>i. Erection and maintenance of security fencing;</li> <li>ii. Clearance of indigenous vegetation, including clearance within a SNA;</li> <li>iii. Establishment and operation of TSF 3 and associated infrastructure;</li> <li>iv. Earthworks, including stripping topsoil and subsoil from the TSF 3 footprint, with associated erosion and sediment control measures;</li> </ul>

	Condition
	<ul style="list-style-type: none"> <li>v. Establishment and use of soil and non-acid forming material stockpiles adjacent to TSF 3;</li> <li>vi. Establishment and use of water management infrastructure including diversion drains, perimeter drains, subsurface drains, pipelines and silt and collection ponds;</li> <li>vii. The realignment of a section of the Ruahorehore Stream;</li> <li>viii. The installation and use of monitoring equipment including piezometers in subsurface drilled holes, standpipes, vibration monitoring equipment, subsidence monitoring and all other necessary monitoring equipment necessary to exercise this consent;</li> <li>ix. Extension of existing TSF services to TSF 3, including, electricity for the leachate and pumping systems, existing tailings delivery lines, decant water return pipes, electricity for the decant return pumps, and extension of the overhead powerline;</li> <li>x. Construction of the TSF 3 embankment and impoundment and associated infrastructure, including placement of soil, limestone and other material and geomembrane liners;</li> <li>xi. Discharge of tailings;</li> <li>xii. Formation and use of internal access roads, haul roads and parking areas,</li> <li>xiii. Use of hazardous substances;</li> <li>xiv. Erection of internal signs to provide directions, safety instructions and information for staff and visitors within the site;</li> <li>xv. Change of land use at a Hazardous Activities and Industries List (HAIL) site associated with rehabilitation works;</li> <li>xvi. Mining activities, including drilling, blasting, and excavation at the central and eastern borrow areas;</li> <li>xvii. Maintenance of all equipment and installations;</li> <li>xviii. Rehabilitation and closure activities;</li> <li>xix. Restoration, mitigation and enhancement planting, habitat enhancement and pest control; and</li> <li>xxii. Any fauna salvage undertaken in accordance with the ELMP—Waihi Area.</li> </ul>
	<p>h. Outside the Biodiversity Project Area and Areas 1 – 7 (as defined further in Section 2.13 of the Substantive Application Report):</p> <ul style="list-style-type: none"> <li>i. Upgrade and use of the Kenny Street carpark;</li> <li>ii. Upgrade of Willows Road and the Willows Road / State Highway 25 intersection;</li> <li>iii. Operation of the conveyor in a reverse direction (i.e. from Area 6 to Area 5) to transport rock from the Northern Rock Stack to GOP or the WUG via the underground tunnels;</li> <li>iv. Restoration and enhancement planting, habitat enhancement and pest control;</li> <li>v. Installation of surface and groundwater monitoring devices, including piezometers installed in drilled holes, adjacent to Natural State Water Bodies and Natural Inland Wetlands;</li> <li>vi. Undertaking of surface and groundwater monitoring in Natural State Water Bodies and Natural Inland Wetlands; and</li> <li>vii. Establishment and operation of any infrastructure which may be required to supplement water into Natural State Water Bodies and Natural Inland Wetlands.</li> </ul> <p>Activities not listed above may also be carried out, but only provided they are directly related to, and form part of, the Waihi North Project and correspond to an activity as described in the Application and supporting technical documents submitted by OceanaGold New Zealand Limited to the Environment</p>

	Condition
	<p>Protection Authority in support of authorisations for the Waihi North Project under the Fast-track Approvals Act 2024.</p> <p><i>Advice Note: Vegetation clearance associated with Drill Sites, Vent Shaft / Pump Test Sites will comprise the clearance of any / all vegetation in the identified areas. Vegetation clearance associated with Portable Rig Sites and Water Pump Sites does not require tree clearance but will comprise the clearance of canopy material required to lower equipment into the site via helicopter, and the movement of any on groundcovers, wood debris, and forest duff within the identified area.</i></p>
2	Pursuant to Section 87(b) of the Fast-track Approvals Act 2024, this consent shall lapse if not given effect to within 10 years of its date of commencement.
3	Pursuant to Section 96 of the Fast-track Approvals Act 2024, this consent is for an unlimited period.
4	At least 20 working days prior to the first exercise of this consent, the Consent Holder must advise the Hauraki District Council in writing of the date upon which the exercising of this consent is to be commenced.

5	<p>The Consent Holder must comply with the common conditions between the Hauraki District Council and the Waikato Regional Council in Schedule One.</p> <p><i>Advice Note: Schedule One includes conditions which address the following:</i></p> <ul style="list-style-type: none"> <li><i>a. Interpretation (Definitions and acronyms)</i></li> <li><i>b. Management Plans</i></li> <li><i>c. Tangata Whenua Conditions</i></li> <li><i>d. Annual Work Programme</i></li> <li><i>e. Company Liaison Officer</i></li> <li><i>f. Complaints Procedure</i></li> <li><i>g. Accidental Discovery Protocols</i></li> <li><i>h. Waihi North Biodiversity Project</i></li> <li><i>i. Dewatering and Settlement</i></li> <li><i>j. Ecology and Landscape Management</i></li> <li><i>k. Peer Review Panel</i></li> <li><i>l. Rehabilitation and Closure</i></li> <li><i>m. Public Provision of Management Plans and Monitoring Reports</i></li> <li><i>n. Rehabilitation Bond and</i></li> <li><i>o. The Martha Trust &amp; Capitalisation Bond.</i></li> </ul>
	<b>Construction Noise</b>
6	<p>Conditions 7 - 14 apply to the following construction activities:</p> <ul style="list-style-type: none"> <li>a. Within all Areas: <ul style="list-style-type: none"> <li>i. Construction of access roads;</li> </ul> </li> </ul>

	<ul style="list-style-type: none"> <li>ii. Clearance of vegetation, stripping and stockpiling subsoils and topsoil;</li> <li>iii. Excavation and backfilling of excavations;</li> <li>iv. Construction of clean and dirty water drains, underdrains, and silt and collection ponds and associated spillways; and</li> <li>v. Deconstruction works on closure of the facilities, e.g. removal of infrastructure and earthworks, and rehabilitation for future land use.</li> </ul> <p>b. Within Area 2:</p> <ul style="list-style-type: none"> <li>i. Construction of buildings and structures within the Willows SFA, and construction and maintenance of site roads and access tracks;</li> <li>ii. Construction of Willows Portal and associated infrastructure, and the initial 100 metre length of the Willows Access Tunnel;</li> <li>iii. Construction of drill pads, ventilation shaft and evasé;</li> <li>iv. Upgrades to Willows Road; and</li> <li>v. Rock stack preparatory work, including subsoil and topsoil stripping and stockpiling, foundations, underdrains, surface water diversion drains and silt ponds.</li> </ul> <p>c. Within Area 3:</p> <ul style="list-style-type: none"> <li>i. Construction of the underground components of the access portal to the Wharekirauponga Access Tunnel and associated infrastructure, and the underground components of the Martha access portal, including the initial 100 metre length of the Wharekirauponga Access Tunnel.</li> </ul> <p>d. Within Area 5:</p> <ul style="list-style-type: none"> <li>i. Relocation of services, including overhead powerlines;</li> <li>ii. All activities associated with installing or replacing existing facilities and constructing new facilities within the Processing Plant and Water Treatment Plant;</li> <li>iii. Construction of noise barriers (bunds or walls) and soil stockpiles;</li> <li>iv. Stripping of soil, subsoil and overburden within the footprint of the GOP for the purpose of bund construction and soil stockpiling; and</li> <li>v. Construction of the surface components of the access portal to the Wharekirauponga Access Tunnel and associated infrastructure, and the surface components of the Martha access portal.</li> </ul> <p>e. Within Area 6:</p> <ul style="list-style-type: none"> <li>i. Rock stack preparatory work, including subsoil and topsoil stripping and stockpiling, and the construction of foundations, compacted liner, underdrains, surface water diversion drains and silt ponds;</li> <li>ii. Local material borrowing activities;</li> <li>iii. Relocation of existing facilities and amenities; and</li> <li>iv. Establishment and use of an explosives magazine</li> </ul> <p>f. Within Area 7:</p> <ul style="list-style-type: none"> <li>i. Construction of upstream clean water diversion drains;</li> <li>ii. Placement and compaction associated with the ongoing operation of the Tailing Storage Facility 3;</li> <li>iii. Local material borrowing activities; and</li> </ul>
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	<p>v. Foundation preparation for the soil stockpiles and stripping and stockpiling soil from construction activities.</p> <p>g. Other activities:</p> <p>i. Upgrade works at State Highway 25 / Willows Road intersection; and</p> <p>ii. Upgrade of the Kenny Street carpark.</p> <p>2. Construction activities must not be operational activities and must meet the definition of "Construction Work" in NZS6803:1999 Acoustics – Construction Noise</p>
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	Construction Noise Standards																																																										
7	<p>Subject to Condition 8 and Condition 9, noise from construction activities must be managed, measured and assessed in accordance with NZS 6803:1999 Acoustics - Construction Noise. The cumulative noise level from all construction activities must comply with the noise limits set out in the following table.</p> <table><tr><th>Day</th><th>Time</th><th>L<sub>Aeq</sub></th><th>L<sub>Amax</sub></th></tr><tr><td colspan="4">Residential Receivers: measured at or within the boundary of any occupied residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone.</td></tr><tr><td rowspan="4">0630h Monday to 0630h Saturday</td><td>0630h – 0730h</td><td>55 dB</td><td>75 dB</td></tr><tr><td>0730h – 1800h</td><td>70 dB</td><td>85 dB</td></tr><tr><td>1800h – 2000h</td><td>65 dB</td><td>80 dB</td></tr><tr><td>2000h – 0630h</td><td>45 dB</td><td>75 dB</td></tr><tr><td rowspan="4">0630h Saturday to 0630h Sunday</td><td>0630h – 0730h</td><td>45 dB</td><td>75 dB</td></tr><tr><td>0730h – 1800h</td><td>70 dB</td><td>85 dB</td></tr><tr><td>1800h – 2000h</td><td>45 dB</td><td>75 dB</td></tr><tr><td>2000h – 0630h</td><td>45 dB</td><td>75 dB</td></tr><tr><td rowspan="4">0630h Sunday and Public Holidays to 0630 the following morning</td><td>0630h – 0730h</td><td>45 dB</td><td>75 dB</td></tr><tr><td>0730h – 1800h</td><td>55 dB</td><td>85 dB</td></tr><tr><td>1800h – 2000h</td><td>45 dB</td><td>75 dB</td></tr><tr><td>2000h – 0630h</td><td>45 dB</td><td>75 dB</td></tr><tr><td colspan="4">Commercial and Industrial Receivers: measured 1 m from the façade of any occupied building.</td></tr><tr><td rowspan="2">All</td><td>0730h – 1800h</td><td>70 dB</td><td></td></tr><tr><td>1800h – 0730h</td><td>75 dB</td><td></td></tr></table> <p><i>Advice Note: Noise from helicopters hovering as part of construction activities is subject to this condition. Noise from helicopters taking-off and landing at defined helipads must comply with condition 23A.</i></p>	Day	Time	L <sub>Aeq</sub>	L <sub>Amax</sub>	Residential Receivers: measured at or within the boundary of any occupied residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone.				0630h Monday to 0630h Saturday	0630h – 0730h	55 dB	75 dB	0730h – 1800h	70 dB	85 dB	1800h – 2000h	65 dB	80 dB	2000h – 0630h	45 dB	75 dB	0630h Saturday to 0630h Sunday	0630h – 0730h	45 dB	75 dB	0730h – 1800h	70 dB	85 dB	1800h – 2000h	45 dB	75 dB	2000h – 0630h	45 dB	75 dB	0630h Sunday and Public Holidays to 0630 the following morning	0630h – 0730h	45 dB	75 dB	0730h – 1800h	55 dB	85 dB	1800h – 2000h	45 dB	75 dB	2000h – 0630h	45 dB	75 dB	Commercial and Industrial Receivers: measured 1 m from the façade of any occupied building.				All	0730h – 1800h	70 dB		1800h – 0730h	75 dB	
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8	<p>The limits in Condition 7 do not apply in circumstances where:</p> <p>a. A certified CNMP (in accordance with Condition C5 of Schedule 1) specifically identifies the activity and authorises an infringement of the limits in Condition 7 and the noise generating activity is undertaken using the Best Practicable Option (“BPO”) for minimising the noise effects of the activity; or</p>																																																										

	<p>b. The exceedance of the noise limits in Condition 7 is no greater than 5 decibels; and</p> <p>c. The exceedance of the noise limits only occurs:</p> <ul style="list-style-type: none"> <li>i. between 0700 and 2200 for 1 period of no more than 2 consecutive weeks in any 2 months; or</li> <li>ii. between 2200 and 0700 for 1 period of up to 2 consecutive nights in any 10 days.</li> </ul>
9	<p>The construction noise limits in Conditions 7 and 8 do not apply to any property or site that is:</p> <ul style="list-style-type: none"> <li>a. Owned by the Consent Holder or a related company; or</li> <li>b. Owned or occupied by a third party which is subject to either a registered covenant or a written agreement (a copy of which has been provided to the Hauraki District Council) whereby noise effects on the property caused by activities authorised by this consent are not to be taken into account for monitoring and compliance purposes.</li> </ul>
	<i>Construction Hours</i>
10	<p>Construction activities listed in Condition 6 must only occur between 0730 to 1800 on weekdays and Saturdays unless those activities are first specified in terms of their location, duration, timing and predicted noise levels in a certified Construction Noise Management Plan.</p>
11	<p>1. Other than underground activities in Area 1 and Area 3 for each Area described in Condition C1(i) of Schedule One, the Consent Holder must provide a Construction Noise Management Plan for written certification under Condition C5 of Schedule One.</p> <p>2. Certification is required to verify that the Construction Noise Management Plan:</p> <ul style="list-style-type: none"> <li>a. Includes actions, methods, monitoring programmes and trigger levels as appropriate to meet the objective in Condition 12; and</li> <li>b. Satisfies the requirements in Condition 13</li> </ul> <p><i>Advice Note: Construction Noise Management Plans may be submitted for each Area separately or multiple Areas combined (if submitted separately, it may be necessary to cross reference Construction Noise Management Plans in other areas).</i></p>
12	<p>The objective of the Construction Noise Management Plan is to provide procedures for the development and implementation of the BPO for the minimisation of all construction noise effects, how the requirements of Condition 7 will be achieved, circumstances where Condition 8 applies, and to define the procedures to be followed if the noise standards in Condition 7 will be exceeded.</p>
13	<p>The Construction Noise Management Plan must as a minimum, address the noise management measures set out in Annexure E of the NZS6803:1999 Acoustics - Construction Noise and address the following matters:</p> <ul style="list-style-type: none"> <li>a. Construction sequencing;</li> <li>b. Machinery and equipment to be used, including the use of non-percussive or low noise machinery where practicable;</li> <li>c. Hours of operation, including times and days when noisy construction work will occur;</li> <li>d. The design of noise mitigation measures such as temporary barriers or enclosures;</li> <li>e. Construction noise limits for specific areas;</li> <li>f. A specific section that specifies and requires the adoption of mitigation strategies where full compliance with the noise standards in Condition 7 cannot be achieved. This must include consultation with occupiers of affected buildings to inform the BPO. The BPO may include the temporary relocation of building occupants;</li> </ul>

	<ul style="list-style-type: none"> <li>g. Procedures for notifying nearby residents of activities that are likely to generate noise levels above the limits in Condition 7;</li> <li>h. Methods for monitoring and reporting on construction noise; and</li> <li>i. The procedures that will be followed by the Consent Holder to receive, record, and respond to any complaint received in relation to construction noise.</li> </ul>
14	<p>The-Consent Holder must provide a summary report on compliance with Condition 7 to the Hauraki District Council every three months.</p> <p><i>Advice note: compliance may be assessed by recording representative noise levels on a weekly basis during construction activities.</i></p>

Operational Noise											
15	<p>For the purposes of Conditions 16-25, operational noise is all noise associated with activities authorised by these consents other than construction noise arising from activities specified in Condition 6.</p> <p><i>Advice note: For avoidance of doubt, operational noise includes:</i></p> <ul style="list-style-type: none"> <li>i. noise associated with any activity undertaken in Area 1;</li> <li>ii. noise arising from maintenance activities in any Area.</li> </ul>										
16	<p>a. The noise rating level from operational activities authorised by this consent assessed cumulatively must not exceed the limits specified below when measured at or within the boundary of any residentially zoned site or the notional boundary of any occupied dwelling in the Rural Zone:</p> <table border="1"> <tr> <td>0700 - 2200</td><td>Monday to Saturday</td><td>50 dB L<sub>Aeq</sub></td></tr> <tr> <td></td><td>All other times</td><td>40 dB L<sub>Aeq</sub></td></tr> <tr> <td>2200 – 0700 (the following day)</td><td>Every day</td><td>70 dB L<sub>AFmax</sub></td></tr> </table> <p>2. Unless 111 Willows Road and 122 Willows Road are owned by the Consent Holder, the noise level arising from road traffic associated with the Project on Willows Road must not exceed a level of 50dB L<sub>Aeq</sub>(1hr) when measured and assessed 1m from the façade of 111 Willows Road and 122 Willows Road. No adjustments for special audible character or duration apply to this noise limit.</p> <p><i>Advice Note: Noise from helicopters taking-off and landing at defined helipads is controlled by condition 23A.</i></p>		0700 - 2200	Monday to Saturday	50 dB L <sub>Aeq</sub>		All other times	40 dB L <sub>Aeq</sub>	2200 – 0700 (the following day)	Every day	70 dB L <sub>AFmax</sub>
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	All other times	40 dB L <sub>Aeq</sub>									
2200 – 0700 (the following day)	Every day	70 dB L <sub>AFmax</sub>									
17	<p>Operational noise must be measured in accordance with the provisions of New Zealand Standard NZS 6801:2008 Acoustics – Measurement of Environmental Sound and assessed in accordance with the provisions of New Zealand Standard NZS 6802:2008 Acoustics – Environmental Noise.</p>										
18	<p>The Consent Holder must:</p> <ul style="list-style-type: none"> <li>a. Once every six months, record representative noise levels from all Areas and those activities outside of Areas 1 – 7 (as identified in Condition 1(h)) subject to active operations and assess them against the requirements of Condition 16; and</li> <li>b. Provide a summary report on compliance with Condition 16 to the Hauraki District Council every three months.</li> </ul>										
19	<p>The operational noise limits in Condition 16 do not apply to any property or site that is:</p> <ul style="list-style-type: none"> <li>a. Owned by the Consent Holder or a related company; or</li> </ul>										



	<p>b. Owned or occupied by a third party which is subject to either a registered covenant or a written agreement (a copy of which has been provided to the Hauraki District Council) whereby noise effects on the property caused by activities authorised by this consent are not to be taken into account for monitoring and compliance purposes.</p>
Helicopter Noise	
20	<p>Helicopter flights from the Willows Road, Baxter Road and Golden Cross helipads must not exceed the following rolling 7-day averages:</p> <p>a. Willows Road / Golden Cross combined: 50 movements</p> <p>b. Baxter Road: 10 movements</p> <p><i>Advice Note: A helicopter movement is any departure from or arrival at a helipad. These movements are inclusive of and not in addition to any movements that form part of any authorisations identified in Part E.02 of the Application and supporting technical documents submitted by OceanaGold New Zealand Limited to the Environment Protection Authority in support of authorisations for the Waihi North Project under the Act</i></p>
21	Helicopters must not fly over the Waihi Township area shown in Map 1 provided in <b>Attachment 2</b> .
22	Other than flights arriving or departing the Golden Cross helipad, helicopter movements must not occur between 8pm and 7am Monday – Saturday or at any time on a Sunday or statutory public holiday.
23	<p>1. For each Area described in Condition C1(a) of Schedule One other than for Area 3 where activities are to occur underground, the Consent Holder must provide an Operational Noise Management Plan for written certification under Condition C5 of Schedule One.</p> <p>2. Certification is required to verify that the Operational Noise Management Plan:</p> <p>a. Includes actions, methods, monitoring programmes and trigger levels as appropriate to meet the objectives in Condition 24; and</p> <p>b. Satisfies the requirements in Condition 25.</p> <p><i>Advice Note: Operational Noise Management Plans may be submitted for each Area separately or multiple Areas combined.</i></p>
23A	<p>1. The consent holder must ensure that the noise from helicopter movements does not exceed the following noise limits when measured and assessed at the notional boundary of any dwelling on land not owned by the consent holder:</p> <p>a. 50dB Ldn when assessed as the rolling average over any 7-day period</p> <p>b. 53dB Ldn on any single day</p> <p>c. 70dB LAFmax between 10pm and 7am the following day</p> <p>2. Except that unless 111 and 122 Willows Road are owned by the Consent Holder, the noise from helicopter movements must be at least 5dB below these LDN levels when measured and assessed at the notional boundary of 111 and 122 Willows Road</p> <p>3. The measurement and assessment of helicopter noise must be undertaken in accordance with NZS6807:1994 Noise management and land use planning for helicopter landing areas</p> <p><i>Advice Note: A helicopter movement is any departure from or arrival at a helipad.</i></p>
24	<p>The objectives of the Operational Noise Management Plan are to ensure:</p> <p>a. Compliance with Condition 16 of this consent; and</p>

	<p>b. That Noise from the operational activities authorised by this consent is minimised in accordance with the requirements of Section 16 of the Resource Management Act 1991 and the Consent Holder adopts the BPO to ensure the emission of noise from the activities does not exceed a reasonable level.</p>
25	<p>1. The Operational Noise Management Plan must as a minimum, address the following matters:</p> <ul style="list-style-type: none"> <li>a. The proposed measures to be used to control operational noise;</li> <li>b. Noise monitoring programmes</li> <li>c. The procedures that will be followed by the Consent Holder to receive, record, and respond to any complaint received in relation to operational noise;</li> <li>d. The role of the Consent Holder's staff in the management of operational noise, including the nomination of specific staff member(s) responsible for overseeing the implementation and upkeep of the Operational Noise Management Plan.</li> <li>da. The methods and procedures to ensure that the road traffic noise limit set out in condition 16B is complied with. This could include physical measures (such as barriers) or management measures (such as speed restrictions).</li> <li>e. The specific noise management and mitigation methods that will be used to minimise noise effects on users of the Coromandel Forest Park, including minimising the noise of surface plant in the Park such as pumps, compressors and other stationary plant.</li> </ul> <p>2. The Operational Noise Management Plan must include a specific section which demonstrates how operational activities at the GOP and the Processing Plant will be undertaken to achieve compliance with Condition 16, including:</p> <ul style="list-style-type: none"> <li>a. The activity and location of noise sources associated with the works;</li> <li>b. The timing and duration of the activities generating noise;</li> <li>c. The noise-generating plant and equipment and their sound power levels;</li> <li>d. The specific noise mitigation measures that will be adopted to maintain compliance with the noise limits in Condition 16;</li> <li>e. Noise monitoring of the Processing Plant following its upgrade in relation to (g); and</li> <li>f. Procedures for noise monitoring and reporting to demonstrate compliance with the noise limits in Condition 16.</li> </ul> <p><i>Advice notes:</i></p> <ul style="list-style-type: none"> <li>1. <i>Specific management and mitigation measures are required for the GOP and the processing plant, where operational noise levels have potential to adversely affect amenity at dwellings located on Moore Street, Barry Road and George Street.</i></li> <li>2. <i>Use of real time monitoring will assist verification of compliance and to inform the scheduling and adaptation of activities to minimise noise effects.</i></li> </ul>
25A	<p>1. The Consent Holder must provide a Helicopter Noise Management Plan for written certification under Condition C5 of Schedule One. The Helicopter Noise Management Plan applies to the use of helicopters for construction and operations.</p> <p>2. Certification is required to verify that the Helicopter Noise Management Plan:</p> <ul style="list-style-type: none"> <li>a. Includes actions, methods and monitoring programmes to meet the objectives in this condition; and</li> <li>b. To ensure that helicopter noise meets the noise limits in condition 23A.</li> </ul> <p>3. The objectives of the Helicopter Noise Management Plan are to ensure:</p> <ul style="list-style-type: none"> <li>a. Compliance with Condition 23A of this consent; and</li> </ul>

	<p>b. That noise from all helicopter use authorised by this consent is managed in accordance with the requirements of Section 16 of the Resource Management Act 1991 and adopts the BPO to ensure the emission of noise from the activities does not exceed a reasonable level.</p> <p>3. The Helicopter Noise Management Plan must as a minimum, address the following matters:</p> <p>a. Defined approach and departure tracks from each formal landing area that minimise noise effects for receivers near to all landing areas;</p> <p>b. Preferred flight paths, flight procedures and any minimum altitude requirements for regular helicopter movements to minimise noise to all receivers under the flight paths, including users of the Wharekirauponga track when the track is open between 1 December and 28 February (inclusive);</p> <p>c. Procedures to ensure that helicopter idling time on the ground is kept to a minimum;</p> <p>d. methods and procedures to record flight numbers and track movements and helicopter types to ensure that compliance with the noise limits in condition 23A can be determined on a daily basis.</p> <p>e. Methods and procedures to ensure that all pilots are aware of the requirements of all conditions relating to helicopter activity, including the noise limits, the need to minimise noise as far as practicable and the need to comply with the certified ONMP.</p>
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## APPENDIX 12 ENVIRONMENTAL STANDARDS

### 9 Environmental Noise, Vibration and visual impacts

#### Purpose

To ensure effective control measures and monitoring programs are implemented to manage noise, vibrations and visual impacts and comply with relevant regulatory requirements.

#### Minimum Standards

- 9.1 Where noise, vibration and visual impacts are not assessed as Material Risks, the Business Unit shall document systems and processes that demonstrate how impacts from these aspects are managed at the Business Unit.
- 9.2 Baseline noise and visual impact conditions shall be characterised prior to the construction of new facilities and extensions to existing facilities.
- 9.3 Business units shall identify all affected external receivers that will be impacted by noise, vibration and intrusive visual impacts.  
  
Where applicable, noise, vibration and visual impact monitoring shall be undertaken to identify any adverse effects from the Business Unit.
- 9.4 Equipment design and purchasing requirements shall consider the minimisation of noise and vibration levels.
- 9.5 Blasting activities shall comply with regulatory requirements and consider the potential impacts to the community.
- 9.6 In the absence of host country requirements and guidelines, peak overall sound pressure level due to air blasts shall not exceed 128 dB (unweighted) at any residential property not owned by Business Units.
- 9.7 Blasting shall be designed to prevent damage to structures unless they are owned by Business Units.
- 9.8 Monitoring systems and programs shall be established to ensure Business Units activities operate in compliance, including a mechanism for assessing noise and vibration monitoring results against the relevant criteria.
- 9.9 In the absence of host country requirements or guidelines Australian Standard AS 2 187.2- 2006, Explosives – Storage and Use of Explosives (or equivalent) shall be applied.