

Mining Licence 32 2388

Variation to Condition 42A

ASSESSMENT OF ENVIRONMENTAL EFFECTS



Waihi Gold Company Ltd

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1 INTRODUCTION

1.1 Newmont Waihi Gold

Waihi Gold Company Ltd (trading as Newmont Waihi Gold) is the owner and operator of the Martha Mine, an open pit mining operation located more-or-less in the middle of Waihi township within 100m of the main street through the town. NWG also owns and operates the Favona Underground Mine, an underground mine in the vicinity of the process plant several kilometres east of the Waihi township, as well as the Trio Underground Mine which is located under Union Hill about halfway between the existing process plant and the Martha open pit.

Waihi Gold Company Ltd has also recently permitted the Martha Exploration Project (MEP) which is a project designed to test the potential for an underground mine beneath and adjacent to the existing open pit. In addition the Correnso Underground Mine has also recently been permitted. This involves mining beneath residential properties at Waihi East.

MEP has not yet commenced and development of the Correnso Mine is expected to commence in early 2014.

1.2 Mining Licence Condition 42A

The Trio Underground Mine required a variation to ML 32 2388 as well as 'regional' resource consent from the Waikato Regional Council. One of the variations sought a crest raise for the Storage 1A embankment from RL166 m to RL 177.25 m. As a result of an appeal by an adjacent property owner, condition 42A was introduced to Mining Licence 32 2388.

The condition was accepted by Waihi Gold Company at the time, however unforeseen pit wall failures and the requirement for remedial works in the Martha Mine have resulted in a delay in completing the rehabilitation of the Storage 1A embankment to RL166m by 31st March 2014¹. Due to this change in circumstances, Waihi Gold Company Ltd is seeking amendments to the wording of condition 42A as shown below:

"42A

- (a) *Prior to each increase in embankments and crest height of Tailings Storage Facility 1A above RL 166, as part of the Third Stage - Continued Waihi Operations within Annex A, the licensee shall provide to the Hauraki District and Waikato Regional Councils for their approval, a report detailing the height of the crest rise, the sequence of works proposed, and an anticipated timeline in which the physical works and revegetation of the embankments and crest will occur. The approved report shall form part of the Rehabilitation and Closure Plan required by 1(c) of this licence and shall incorporate the revegetation programme in 42A(c) below.*
- (b) *The licensee shall have completed revegetation of the embankment slopes of Storage 1A to RL166 by 31st March ~~2014~~ 2015.*
- (c) *Unless otherwise agreed in writing by Hauraki District Council and Waikato Regional Council, the licensee shall undertake the revegetation planting of the embankment slopes*

¹ Refer the attached application document for more details

of Storage 1A such that after 31st March 2014, all revegetation planting shall be staged relative to the annual lifts of the embankment crest, i.e. the lift undertaken in the previous season is to be revegetated while the current season's lift is being undertaken. Stockpile areas are excluded from the requirements of 42A (b) & (c).

- (d) *If the programme in 42A (b) or (c) above is not achieved, the licensee shall forthwith provide a review to Hauraki District and Waikato Regional Councils detailing the reasons why this has occurred and measures proposed to address programme timing."*

While it is expected that rehabilitation of the embankment slopes of Storage 1A to RL 166m will be completed by 31st March 2015, based on previous experience a change is sought to condition 42A (d) so that the Company has a way of resolving a potential breach due to unforeseen delays that are not of its own making.

1.3 Statutory Context

ML 32 2388 is an existing privilege, as defined by section 106 of the Crown Minerals Act 1991 (CMA). Accordingly, NWG continues to have the same statutory rights in respect of ML 32 2388 as it would have had if the Mining Act 1971 had not been repealed and the CMA and Resource Management Act 1991 (RMA) had not been enacted.

The Mining Act specifically excluded the ambit of the Town and Country Planning Act 1977 - the predecessor legislation to the RMA. As a result, no district land use consent was required to be held by the holder of a mining licence in respect of land use activities carried out within the mining licence area.

Further, section 103D of the Mining Act provided for the variation of the conditions of an existing mining privilege. Therefore, NWG is able to apply for the variation of the condition contained in ML 32 2388 to the extent required to vary condition 42A.

The transitional provisions of the CMA (namely section 108) provide for the administration of existing mining privileges, and essentially splits the responsibilities in respect of ML 32 2388 between the Minister of Energy and Resources, Environment Waikato (EW), Hauraki District Council (HDC) and the Health and Safety Inspector.

This application to vary ML 32 2388 has been made to the Minister of Energy and Resources, Environment Waikato and Hauraki District Council, to the extent that the variations fall within their role as set out in section 108 of the Crown Minerals Act 1991.

The procedure to be followed in processing the applications for the variation of ML 32 2388 is set out in section 103D of the Mining Act. In summary, each of the relevant authorities must consider the variations sought, and consult with the other two authorities, and other prescribed parties set out in section 103D of the Mining Act. The authorities must then notify their recommendations on the variations sought to ML 32 2388 and objections from the public are called for. Objections must be filed with the Environment Court within 20 working days after the date of the public notice. The Environment Court then holds a hearing into any objections lodged and makes a decision on the application.

1.4 Activity covered by this application

The activity covered by this application relates entirely to condition 42A of Mining Licence 32 2388. It includes the placement of waste rock to construct the structural zones of the embankment, followed by the placement of subsoil and topsoil and the seeding of grass for the purposes of embankment rehabilitation.

The embankment of Storage 1A is entirely contained within the boundaries of ML 32 2388. ML 32 2388 contains a number of conditions that are relevant to the construction of the embankment with waste rock as well as the rehabilitation of the embankment.

1.4.1 Embankment Construction

Condition 32 requires testing of the compaction of the waste rock during placement into structural and/or seepage control zones within the embankments as follows:

“Waste Rock Embankments and Tailings Ponds”

32. *The licensee shall, during the placement of waste rock in waste rock embankments, test on a daily basis the compaction of waste rock being placed in structural and/or seepage control zones...”*

Annex A also makes comment regarding the embankment construction:

80. *Selected mine waste will be used for the construction of the structural zone of the tailings confining embankments (See Figure 2.10).*
81. *Construction of the confining embankments is an integral part of waste disposal operations. Therefore, construction must continue throughout the year at a rate dictated by mine waste production.*
82. *Material selection will be achieved by co-ordination of mining and waste disposal. As far as practicable construction materials will be placed and compacted at close to the optimum water content for compaction. The properties of the compacted waste will be monitored to ensure that the embankment complies with the design requirements.*

...”

1.4.2 Rehabilitation

Condition 1(c) of ML 32 2388 provides for, amongst other things, rehabilitation of the embankment as described below:

“(c) Rehabilitation

The licensee shall progressively implement Part A of the approved Rehabilitation and Closure Plan and shall implement Part B of the approved Rehabilitation and Closure Plan in the event of closure occurring. The approved Rehabilitation and Closure Plan is the plan approved pursuant to the conditions of the resource consents granted by the Waikato Regional Council for the extended project.”

Other relevant conditions of ML 32 2388 that provide for rehabilitation are shown below:

"Rehabilitation"

General

33. *The licensee shall rehabilitate the whole licence area in accordance with the approved Rehabilitation and Closure Plan referred to in condition 1c, and in accordance with the work programme specified in condition 2.*
34. *The licensee shall progressively strip and stockpile, as far as practical, topsoil from all areas to be used for construction and waste disposal in the process plant and waste disposal area. This stockpiled topsoil or topsoil stripped during the course of operations shall be used to produce the maximum rehabilitation benefit.*

Tailings and Waste Disposal Site

41. *The licensee shall make good all final surfaces of the waste rock embankments, tailings storage areas, perimeter bund and any associated work in the waste and tailings disposal area at Baxter Road.*
42. *Rehabilitation of the final surface shall be progressive as areas of a practical working size become available and shall include the provision of a suitable rooting medium, contouring and drainage as required, to ensure the establishment and maintenance of a surface which will protect water quality and avoid soil erosion.*

2 SITE DESCRIPTION

The land immediately surrounding Storage 1A is rural in nature and the land use is predominantly dairy farming with some horticulture, predominantly kiwifruit. **Figure 1** shows the major roads surrounding Storage 1A (Waihi Beach Road and Trig Road) and it also shows the land that is owned by Waihi Gold Company Ltd as opposed to private ownership.

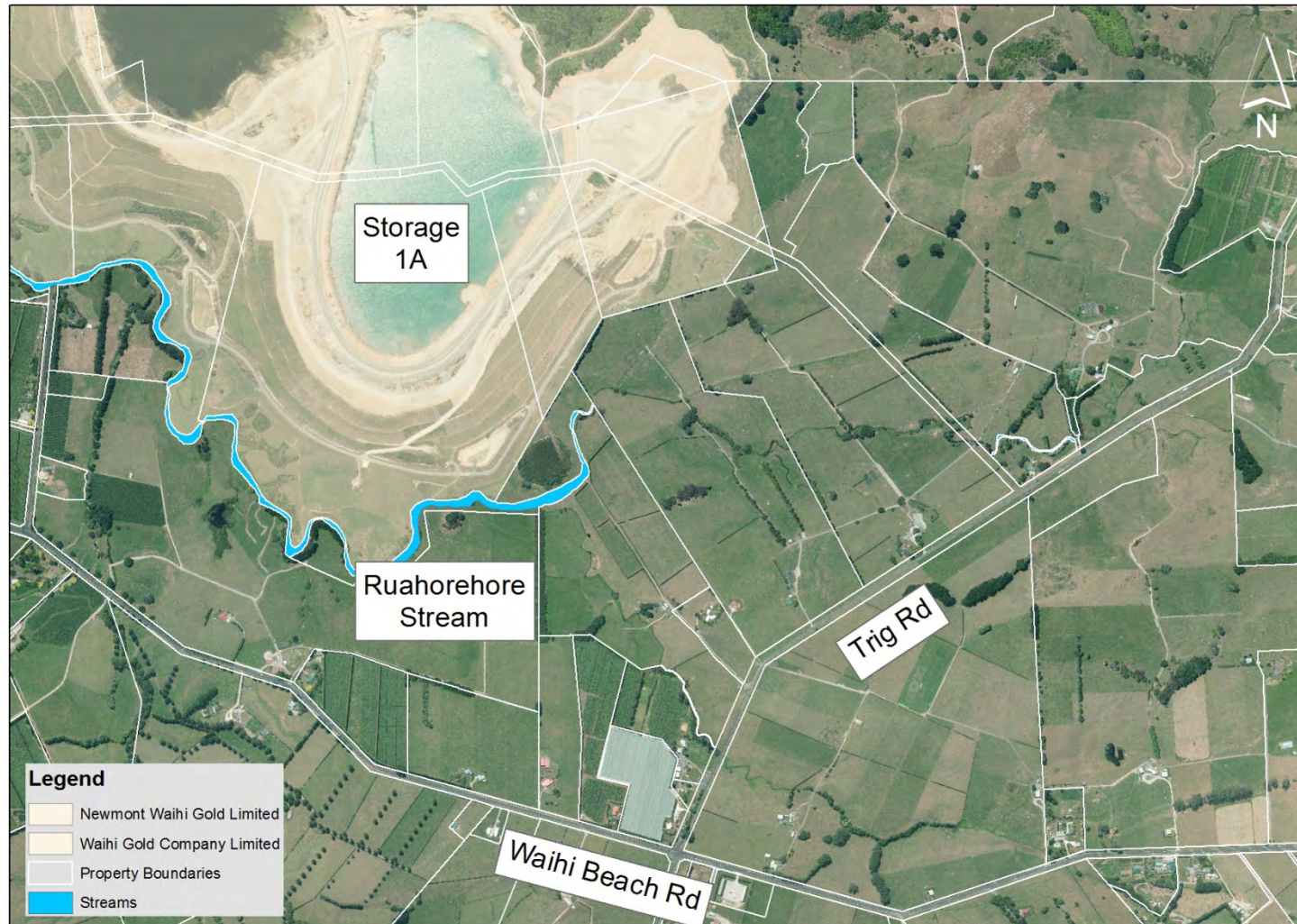


Figure 1 – Location of Storage 1A Embankment and Neighbouring Properties

3 PROPOSED WORKS

While efforts are being made to construct and rehabilitate as much of the Storage 1A embankment to RL 166m as possible by 31 March 2014, it may be that some of the embankment rehabilitation remains incomplete at that time. Due to the onset of winter it is possible that the work will have to cease and recommence next spring.

The current estimate is that by 31 March 2014, the Storage 1A embankment will be rehabilitated to within 10m of the RL166m height, and the whole of the embankment will be rehabilitated to RL166m by November 2014. The current relatively dry spring weather is allowing good progress to be made.

Progress could however be hindered by the weather and based on past experience there is a risk of unforeseen events that could delay progress.

4 ASSESSMENT OF ENVIRONMENTAL EFFECTS

The following assessment of effects is provided to support this application to vary ML 32 2388. It is important to note that the variation will not result in additional adverse effects over and above what would have occurred pre-variation. Instead, the variation will result in a delay in activities and potential effects, rather than additive adverse effects.

4.1 Operating Hours and Noise

Waihi Gold Company Ltd considered using the extended hours that are available through condition 19 (d) of Mining Licence 32-2388. This would allow mining, conveying and placement of waste rock between 1900 and 2100 hours Monday to Friday. However it was recognised that this could result in disruption to, and complaints from neighbouring properties. Also, in the event of wet weather the extended hours would offer little assistance in terms of being able to complete the embankment.

At present, the potential disruption to neighbours outweighs the potential to make significant advances to the embankment rehabilitation, so the decision was made to continue with the normal operating hours, i.e. Monday to Friday 0700 -1900 and Saturday 0700-1200. The existing noise limits will continue to apply: i.e.

Monday to Friday 0700-2100	55 dBA,
Saturday 0700-1200	55 dBA and
All other times	40 dBA.

4.2 Dust

The major sources of dust at the Waste Disposal Area are haul roads and stockpiles. Water carts are used during dry weather to reduce dust from the haul roads.

While it would appear that leaving the waste rock embankment unrehabilitated for longer would result in increased dust levels, in practice there is generally no visible dust seen coming from the embankment itself. For this reason a delay in the embankment rehabilitation is not expected to result in an increased dust nuisance, and it would be very unlikely that neighbouring properties would notice the difference in terms of dust nuisance.

4.3 Water Quality

The conditions of the Mining Licence and relevant WRC consents and conditions are centred around maintaining surface water quality and avoiding erosion. Erosion is avoided by timing topsoiling and seeding to reduce the risk of it washing away in heavy rain. Stormwater runoff from the Storage 1A embankment is diverted to collection ponds and the water is treated through the Water Treatment Plant prior to discharge to the Ohinemuri River.

4.4 Visual Effects

Figures 2 to 11 consist of visual simulations at a number of viewpoints surrounding the Storage 1A Embankment. The photographs show the current view as at 30 October 2013 (series a) together with simulations that show what the same area is expected to look like at 31 March 2014, based on current progress (series b). The red line indicates approximately the location of the RL 166m level.

In summary, rehabilitation is expected to have progressed to within 10m of the RL166m level by 31 March 2014, i.e. somewhere above RL156m. The visual simulations show that this will not be significant in terms of the visual effects. In some areas the view is screened by vegetation and shelter belts growing in the area.

4.5 Rehabilitation Bond

The closure works for the Storage 1A embankment will continue to be included in the existing rehabilitation bond which is maintained in favour of both EW and Hauraki District Council.

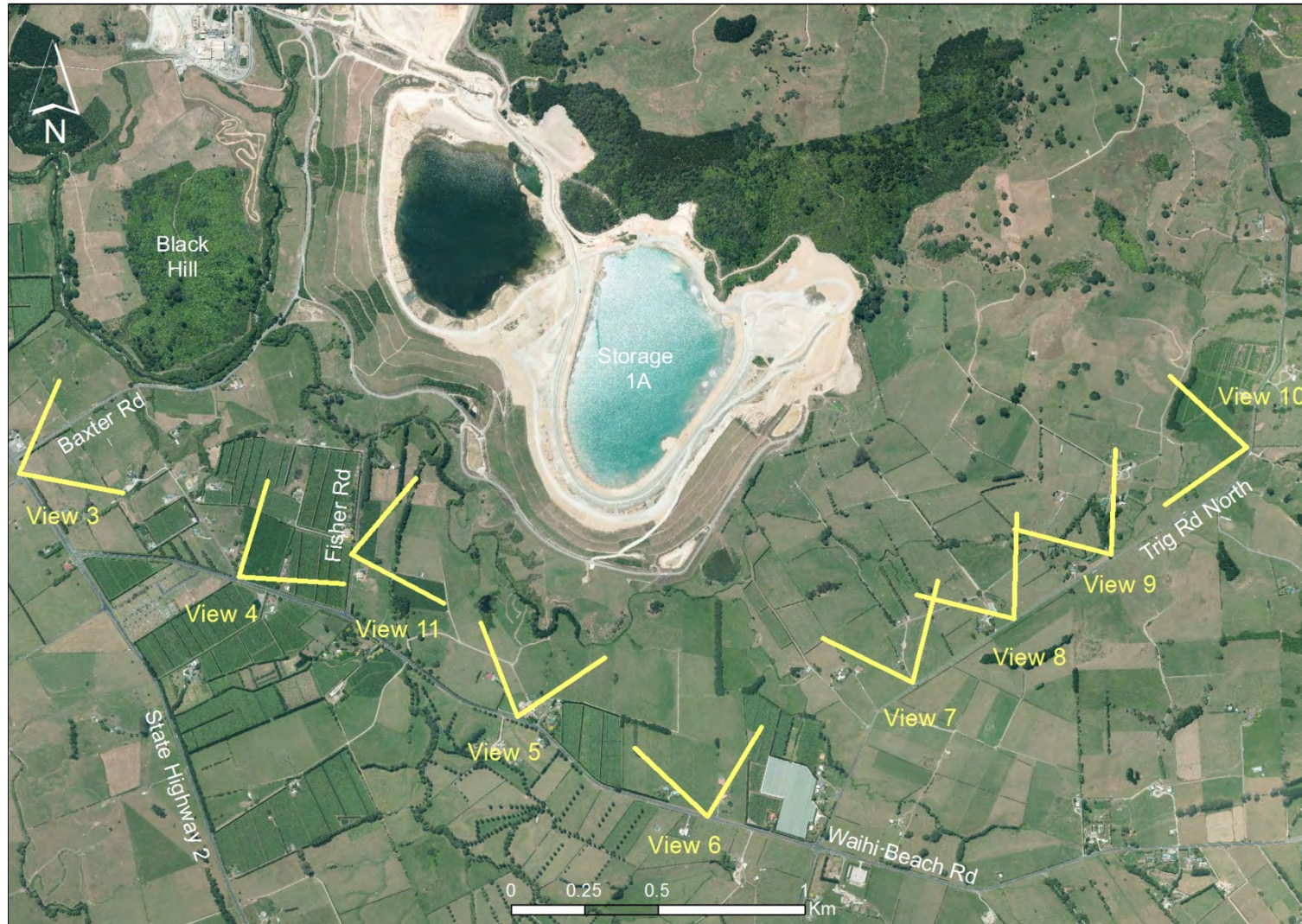


Figure 2 – Location of Photographs Taken for Visual Simulations (Refer Overleaf)



Figure 3a - View 3, State Highway 2/Baxter Rd, 30 October 2013



Figure 3b - View 3, State Highway 2/Baxter Rd, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 4a - View 4, Waihi Beach Road, 30 October 2013



Figure 4b - Waihi Beach Road, View 4, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 5a - View 5, Waihi Beach Road, 30 October 2013



Figure 5b - View 5, Waihi Beach Road, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 6a - View 6, Waihi Beach Road, 30 October 2013



Figure 6b - View 6, Waihi Beach Road, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 7a - View 7, Trig Road North, 30 October 2013



Figure 7b - View 7, Trig Road North, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 8a - View 8, Trig Road North, 30 October 2013



Figure 8b - View 8, Trig Road North, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 9a - View 9, Trig Road North, 30 October 2013



Figure 9b - View 9, Trig Road North, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 10a - View 10, 204 Trig Road North, 30 October 2013



Figure 10b - View 10, 204 Trig Road North, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014



Figure 11a - View 11, Fisher Road, 30 October 2013



Figure 11b - View 11, Fisher Road, Visual Simulation Showing Expected Embankment Rehabilitation Progress at 31 March 2014

5 PUBLIC CONSULTATION

Waihi Gold Company Ltd has telephoned the following landowners/occupiers in the vicinity of Baxter Road, Kingsley Road, Fisher Road, Waihi Beach Road, and Trig Road to:

- discuss the purpose of the application,
- offer to visit with visual simulations and discuss the application in more detail, and,
- let people know that there will be more information in the Waihi Leader on 5th December, and that they can phone NWG if they have any questions at that time.

A summary of the consultation undertaken is presented overleaf.

Waihi Gold Company Ltd has also made this application the subject of an Update Newsletter that will be published in the Waihi Leader to provide information to the wider community. The phone number of the Company Liaison Officer is printed within the newsletter and people are encouraged to phone the Company Liaison Officer if they require further information or would like to arrange a meeting.

Considering the very limited effects arising from this variation, this level of consultation is considered to be more than adequate. The surrounding land is zoned rural and there are relatively few residences. It is unlikely that people will notice a difference in terms of effects.

6 CONCLUSION

NWG is applying for a variation to ML 32 2388 to amend condition 42A. The variation is necessary due to changing circumstances since the condition was written. Unforeseen pit wall failures and the requirement for remedial works in the Martha Mine, have resulted in a delay in completing the rehabilitation of the Storage 1A embankment to RL166m by 31st March 2014 which is currently a requirement of Condition 42A.

As assessed in Section 4 above, the potential adverse effects on the environment of the proposed variation are no more than minor. The proposed variation results in a delay in timing as opposed to additive effects. Operations will continue at the open pit, Surface Facilities Area and at the Waste Disposal Area just as they have done for the last approximately 25 years, and the changes resulting from this variation will be so minor that it is unlikely that any difference will be noticed by neighbouring properties. Notwithstanding that, Waihi Gold Company has consulted with neighbouring properties and will be advising the wider community of its intention to vary Condition 42A via the Update Newsletter.

NWG has operated the Martha Mine with a high level of compliance with the existing licence conditions and related management plans including the Tailings Storage Facility Monitoring Plan, Air Quality Management Plan, and the Rehabilitation and Closure Plan. The same careful and proactive approach to monitoring and environmental management will continue following the variation.

While Waihi Gold Company Ltd will be proceeding with the embankment rehabilitation as quickly as possible, it is likely that the rehabilitation will not be sufficiently advanced to ensure compliance with condition 42A as it currently stands. The proposed variation to condition 42A will ensure that compliance is able to be achieved in the event that the rehabilitation is delayed due to unforeseen events and/or wet weather conditions.

Appendix A: Schedule of existing consents and authorisations

Type	Reference	Summary	Date of grant	Expiry Date
1. Martha Mine and Extended Project				
<i>Table 1: Mining Licence and Key Land Use Consent</i>				
Mining Licence and variations thereto	32 2388	Original Mining Licence granted in 1987 and variations granted since for Favona and MEP.	16/07/1987	16/7/2017
HDC Land Use Consent	Env Court Decision A114/99, Land Use Consent 97/98-105	Land Use Consent for Extended Project mining operations outside of the area subject to the mining licence.	13/10/1999	10/12/2019
<i>Table 2: Waikato Regional Council Resource Consents – Martha Pit Activities</i>				
Land use (vegetation removal) consent	Env Court Decision A114/99, Land Use Consent 971282	To remove up to 20 hectares of vegetation from Areas A and B	13/10/1999	15/07/2017
Land use (earthworks)	Env Court Decision A114/99, Land Use Permit 971283	To carry out earthworks and contouring of land of up to 82 hectares for mining, mining operations and rehabilitation in Areas A and B	13/10/1999	15/07/2017
Discharge permit (to land)	Env Court Decision A114/99, Land Use Permit 971284	To place ore, waste rock, topsoil and tramp material in stockpiles in Area B and noise bunds created in Areas A and B	13/10/1999	15/07/2017
Water take (ground)	Env Court Decision A114/99, Water permit 971286	To dewater the pit (Areas A and B) and surrounding areas at a rate of 15,000 m ³ of surface water and groundwater per day, at or about NZMS260 T13:620 202	13/10/1999	15/07/2017
Water permit (diversion)	Water permit 118633	To divert clean stormwater in the Surface Facilities Area	13/10/1999	16/07/2017
Discharge permit (air)	Env Court Decision A114/99, Discharge permit 971281	Air permit to discharge contaminants to air for all of the site	13/10/1999	15/07/2017

Type	Reference	Summary	Date of grant	Expiry Date
<i>Table 3: Waikato Regional Council 'Rehabilitation Specific' Resource Consent for the Mine Pit Area</i>				
Water permit (surface water take)	Env Court Decision A114/99, Water permit 971287	To take up to 15,000 m ³ /day of surface water to fill the lake	13/10/1999	13/10/2021
Land use permit (intake structure)	Env Court decision A114/99, Land use permit 971288	To construct and place a water intake structure into the Ohinemuri River for the purposes of taking water to accelerate lake filling	13/10/1999	13/10/2021
Discharge permit	Env Court Decision A114/99, Discharge permit 971289	To discharge up to 15,000 m ³ /day of surface water into pit to accelerate lake filling	13/10/1999	13/10/2021
Water permit (diversion)	Env Court Decision A114/99, Water permit 971290	To divert groundwater during the construction of the pit lake outlet structure	13/10/1999	13/10/2021
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971291	To discharge groundwater diverted during the construction of the pit lake outlet to the Mangatoetoe Stream	13/10/1999	13/10/2021
Land use permit (outlet structures)	Env Court Decision A114/99, Discharge permit 971292	To place and use outlet structures in the Mangatoetoe Stream to allow discharge of lake overflow	13/10/1999	13/10/2046
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971293	To discharge overflow from the lake via an outlet structure and channel to the Mangatoetoe Stream	13/10/1999	13/10/2056
<i>Table 4: Waikato Regional Council resource consents – Conveyor, Process and Waste Areas</i>				
Land use consent (earthworks)	Env Court Decision A114/99, Land use permit 971294	To carry out earthworks of up to 383 hectares associated with the construction of Storage 1A	13/10/1999	13/10/2034
Discharge permit (to land)	Env Court Decision A114/99, Discharge permit 971295	To place ore, waste rock, topsoil and other materials in stockpiles within Area D	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Discharge permit 971296	To divert natural water around oxidized stockpile N2	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971297	To discharge natural water around oxidized stockpile N2 into unnamed stream 1	13/10/1999	13/10/2034

Type	Reference	Summary	Date of grant	Expiry Date
Water permit (diversion)	Env Court Decision A114/99, Discharge permit 971298	To divert and unnamed tributary (unnamed stream 2) of the Ohinemuri River	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Discharge permit 971299	To divert part of an unnamed tributary (unnamed stream 1)	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Discharge permit 971300	To divert natural water around surplus soil stockpiles	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971301	To discharge natural water diverted around surplus soil stockpiles	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Water permit 971302	To divert an unnamed tributary (unnamed stream 3)	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Water permit 971307	To divert natural water via the southern diversion drain	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Water permit 971308	To discharge natural water via the southern diversion drain	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Water permit 971309	To divert natural water via the northern diversion drain	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971310	To discharge natural water diverted around Storage 2	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Water permit 971316	To divert natural water to the south on the western side of the process plant	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Water permit 971317	To discharge natural water diverted to the south on the western side of the process plant	13/10/1999	13/10/2034
Land use permit (ground water monitoring)	Env Court Decision A114/99, Land use permit 3617	Land use consent for the establishment of monitoring bores within Area D	13/10/1999	13/10/2034
Water permit (ground water take)	Env Court Decision A114/99, Water permit 971322	To divert and take water from the monitoring bores with Area D	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971311	To discharge settled stormwater from silt ponds	13/10/1999	13/10/2034

Type	Reference	Summary	Date of grant	Expiry Date
Land use permit (structures in water course)	Env Court Decision A114/99, Discharge permit 971313	To place and use structures across a watercourse for constructing a collection pond for WTP area	13/10/1999	13/10/2034
Water permit (dam)	Env Court Decision A114/99, Water permit 971314	To dam a watercourse for constructing a collection pond for the WTP area	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Water permit 971315	To discharge water from the WTP collection pond	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971312	To discharge water from the collection ponds	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971318	To discharge treated water via two discharge points	13/10/1999	13/10/2034
Land use permit (structures in water course)	Env Court Decision A114/99, Land use permit 971319	To place and use structures to discharge treated water	13/10/1999	13/10/2034
Land use permit (structures in water course)	Env Court Decision A114/99, Land use permit 971320	To place and use existing structures to discharge treated water	13/10/1999	13/10/2024
Discharge permit (to land)	Env Court Decision A114/99, Land use permit 971303	To place waste rock and other material to establish Storage 1A	13/10/1999	13/10/2034
Discharge permit (to land)	Env Court Decision A114/99, Land use permit 971304	To discharge tailings into Storage 1A	13/10/1999	13/10/2034
Discharge permit (to land)	Env Court Decision A114/99, Discharge permit 971305	To discharge seepage from Storage 1A into the ground	13/10/1999	13/10/2034
Water permit (diversion)	Env Court Decision A114/99, Water permit 971306	To divert groundwater from within the footprint of Storage 1A into underdrains	13/10/1999	13/10/2034
Discharge permit (to water)	Env Court Decision A114/99, Discharge permit 971323	To discharge water from tailings ponds following rehabilitation	13/10/1999	23/10/2042

Type	Reference	Summary	Date of grant	Expiry date
Land use permit (earthworks and trenching)	Env Court Decision A114/99, Land use permit 971321	To carry out earthworks, trenching and other activities to construct pipeline corridor	13/10/1999	13/10/2034
<i>Table 5: Earlier (non Extended Project) consents for Storages 1 and 2 and Conveyor</i>				
Water Permit	Water permit W1750	To construct an impoundment structure for containment of tailings (disposal area)	24/07/1987	1/10/2026
Discharge permit (to water)	Discharge permit W1761	To discharge water beneath Storage 2 and the holding pond	24/07/1987	1/10/2026
Water permit (dam)	Water permit W1749	To dam watercourses (disposal area)	24/07/1987	1/10/2026
Water permit	Water permit W1751	To dam unnamed watercourse to construct a perimeter bund and access road	24/07/1987	1/10/2026
Discharge permit (to water)	Discharge permit W1742	To discharge clean stormwater from conveyor trench (Barry Rd silt pond)	24/07/1987	24/7/2017
Discharge permit (to water)	Discharge permit W1743	To discharge clean stormwater from conveyor trench (Union Hill)	24/07/1987	24/7/2017
2. Favona Mine (includes decline project and mine project)				
<i>Table 6: Favona Decline Consents</i>				
Mining permit	Mining Permit 41 808	Covers an area of approximately 121.4 ha	22/03/2004	22/3/2029
Mining Licence	32 2388	Original Mining Licence granted in 1987 and variations granted since for Favona and MEP.	16/07/1987	16/07/2017
HDC Land Use Consent	No number on it	Construction and use of exploration decline within Favona Exploration Project Area	21/02/2003	Unlimited duration

Type	Reference	Summary	Date of grant	Expiry date
Water permit (groundwater take)	108554	To take groundwater by passive means for dewatering exploration decline	N/A - Consent expired	N/A - Consent expired
Discharge permit (to land)	108556	To discharge treated wastewater from the treatment plant to flood the exploration decline	N/A - Consent expired	N/A - Consent expired
<i>Table 7: Favona Mine Consents</i>				
Mining permit	Mining Permit 41 808	Covers an area of approximately 121.4 ha	22/03/2004	22/3/2029
Mining Licence	32 2388	Original Mining Licence granted in 1987 and variations granted since for Favona and MEP.	16/07/1987	16/07/2017
HDC Land Use Consent	Consent order ENV A00009/04 (19 Aug 04)	Mining and mining activities for Favona Underground Mine Project	19/08/2004	Unlimited term
Discharge permit (to Air)	109741	To discharge contaminants to air from mine portal etc	13/04/2004	31/12/2028
Water permit (groundwater take)	109742	To take groundwater and mine water for dewatering the underground mine	13/04/2004	31/12/2028
Water permit to divert and discharge water	109743	To divert and discharge ground and surface water from around the project area	13/04/2004	31/12/2028
Discharge permit (to land)	109744	To discharge waste rock and ore onto land in temporary surface stockpiles and to discharge any seepage from temporary stockpiles (note this refers to collection pond also)	13/04/2004	31/12/2028

Type	Reference	Summary	Date of grant	Expiry date
Discharge permit (to land)	109745	To discharge waste rock onto land underground in the project area as backfill and to allow degraded quality groundwater to discharge from the flooded workings into surrounding ground post closure	13/04/2004	31/12/2028
Discharge permit (to land)	109746	To discharge treated mine water from the treatment plant to ground in assoc with flooding the underground mine on completion of the project	13/04/2004	31/12/2028

3. Trio Mine (includes Trio Development and mine projects).

Table 8: Trio Development Project Consents

Mining permit	Mining Permit 41 808	Covers an area of approximately 121.4 ha	22/03/2004	22/3/2029
Mining Licence	32 2388	Original Mining Licence granted in 1987 and variations granted since for Favona and MEP.	16/07/1987	16/07/2017
HDC Land Use Consent	RC-15735	To develop land under and around Union Hill, Waihi, between the existing Martha mine and water treatment plant adjacent to the Favona mine as part of the Trio Development Project	15/09/2010	Unlimited term
Land use consent and discharge permit (to land)	121416	Place waste rock (overburden) into land underground as backfill, and to discharge groundwater from the flooded workings into the ground following closure, all associated with the Trio Development Project	24/09/2010	12/03/2028

Type	Reference	Summary	Date of grant	Expiry date
Water permit (surface water take)	121417	Take up to 15,000 cubic metres of water per day from the Ohinemuri River associated with the flooding of the Trio Development Project underground workings	24/09/2010	13/10/2025
Discharge permit (to land)	121418	Discharge untreated and treated water into ground to flood the mine	24/09/2010	31/12/2028
Water permit (groundwater take)	121446	Undertake dewatering of the underground workings associated with Trio Development Project	24/09/2010	31/12/2028
Discharge permit (to air)	121447	To discharge contaminants to air from the Ventilation shaft	24/09/2010	31/12/2028

Table 9: Trio Underground Mine Consents

Mining permit	Mining Permit 41 808	Covers an area of approximately 121.4 ha	22/03/2004	22/3/2029
Mining Licence	32 2388	Original Mining Licence granted in 1987 and variations granted since for Favona and MEP.	16/07/1987	16/07/2017
HDC Land Use Consent	RC-15774	To develop land under and around Union Hill, Waihi between the existing Martha Mine and water treatment plant adjacent to the Favona mine as part of the Trio Underground Mine.	27/07/2011	Unlimited term
Land use consent (deposit) and discharge permit	121694	Place waste rock (overburden) into land underground as backfill, and to discharge groundwater from the flooded workings into the ground following closure, all associated with the Trio Underground Mine Project.	3/12/2010	31/12/2028
Water permit (surface water take)	121695	Take up to 15,000 cubic metres of water per day from the Ohinemuri River associated with the flooding of the Trio Underground Mine Project	3/12/2010	13/10/2025

Type	Reference	Summary	Date of grant	Expiry date
Discharge permit (to land)	121696	Discharge untreated and treated water into ground for the purposes of flooding the underground workings following closure, all associated with the Trio Underground Mine Project	3/12/2010	31/12/2028
Discharge permit (to air)	121697	To discharge contaminants to air from a vent shaft associated with the Trio Underground Mine Project	3/12/2010	31/12/2028
4. MEP				
<i>Table 10: MEP</i>				
Mining Licence	32 2388	Variations to the mining licence granted on 27/07/11 for Favona (to be updated for MEP)	16/07/1987	16/07/2017
Land Use Consent	123468	Place waste rock (overburden) into land underground as backfill and to discharge groundwater from the flooded workings following closure, all associated with MEP	28/10/2011	13/10/2021
5. Correnso				
<i>Table 11: Correnso Golden Link</i>				
Discharge permit (Discharge to Air)	124859	Discharge contaminants into the air relating to all activities within the Golden Link Area	16/07/2012	16/07/2037
Water permit (groundwater take)	124860	Undertake dewatering of underground workings within the Golden Link Project Area	16/07/2012	16/07/2037

Type	Reference	Summary	Date of grant	Expiry date
Land use consent (Land – deposit)	124861	Place waste rock overburden and cemented aggregate underground as backfill and discharge groundwater from flooded workings into ground following closure	16/07/2012	16/07/2047
Water permit (surface water take)	124862	Take and use up to 15,000 m ³ /day from the Ohinemuri River to accelerate flooding of open pit and underground workings	16/07/2012	16/07/2042
Discharge permit (discharge to land)	124863	Discharge treated water and Ohinemuri River water to ground to flood underground workings and open pit	16/07/2012	16/07/2042
Land Use Consent (bed disturbance)	124864	To construct and place a water intake structure into the Ohinemuri River to facilitate accelerated flooding of the open pit and underground	16/07/2012	16/07/2042

6. Miscellaneous Consents

Table 12: Miscellaneous Consents

Water permit (surface water take)	Water permit 114554	To take up to 430 m ³ /day of water for elution		15/7/2017
Land use permit (works in a watercourse)	Land use permit 103820	To undertake stabilization works on an existing river crossing		Expired
Land use permit (culvert)	Land use permit 930088	To construct a culvert for access purposes Williams St (mine pit)		6/08/2028

Type	Reference	Summary	Date of grant	Expiry date
Resource consent	RC-15754	To retrospectively remove eight foundation piles from the site of the Grand Junction boiler house		Unlimited term
Resource consent	RC-15711	To relocate the Grand Junction refinery building and strong rooms		Unlimited term
Land Use Consent	LUse-202.2011.00000059.001	To remove a 30m wide corridor of vegetation for the purposes of relocating powerlines		Unlimited term
Land Use Consent	LUse-202.2011.00000109.001	To construct a track, fence, undertake earthworks and erect signage for the Union Hill walkways		Unlimited term
Land Use Consent	85.030.009.PP	Undertake earthworks associated with relocation of Pumphouse		Expired
Land Use Consent	Luse-202.211.00000099.001	To undertake earthworks (for service trenching and archaeological investigations) and retrospective approval of a silt pond and culvert		Unlimited term
Land Use Consent	FRED_n1044027-v2	To construct an acoustic wall (Hebel wall) on top of the Grey Street Noise Bund		Unlimited term
Land Use Consent	FRED_n1044023-v2	To amend the conditions of the original Land Use Consent for an acoustic wall (Hebel wall) on top of the Grey Street Noise Bund		Unlimited term
Land Use Consent	FRED_n144861-v1	To erect and use the Core Shed		Unlimited term

Land Use Consent	FRED_n687319-v1	Variation to consent to erect and use the Core Shed		Unlimited term
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