

# Resource Consent Certificate

**Resource Consent:** AUTH124859.01.02

**File Number:** 61 54 92A

*Pursuant to the Resource Management Act 1991, the Waikato Regional Council hereby grants consent to:*

Oceana Gold (New Zealand) Ltd  
PO Box 190  
Waihi 3641

*(hereinafter referred to as the Consent Holder)*

**Consent Type:** Discharge permit

**Consent Subtype:** Discharge to air

**Activity authorised:** Discharge contaminants into the air relating to all activities within the Golden Link Project Area. This includes dust and carbon dioxide arising from mining operations, emissions from the Process Plant including waste heat and water vapour, vehicle fumes, and other minor and/or fugitive emissions associated with mining operations; and within Area D only, smoke from burning of tramp material (including vegetation and surplus packaging)

**Location:** Golden Link Project Area Areas L and M and including areas A-K (as identified on Waihi Gold Company Plan No.T70725A dated 25 July 1997)

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall commence on the date stated in condition 2 and expire twenty years from the date of commencement

**Subject to the conditions overleaf:**

## CONDITIONS

1. This consent is subject to the conditions listed in Schedule One – General Conditions.
  2. This consent shall commence on 16 July 2017.
  3. If any non-compliance with the conditions of this consent occurs, the consent holder shall notify the Waikato Regional Council as soon as practicable and no later than 24 hours after the consent holder becomes aware that the event has occurred.
  4. There shall be no particulate matter or gaseous emissions (including odour) in the discharge that gives rise to objectionable adverse effects (as defined in Section 6.4 of the Operative Waikato Regional Plan), at or beyond the boundary of the subject property.
  5. Should a discharge occur that causes an objectionable adverse effect, the consent holder shall provide a written report to the Waikato Regional Council (the “**Council**”) within five days of being notified of such by the Council. The report shall specify:
    - (i) the cause or likely cause of the event and any factors that influenced its severity;
    - (ii) the nature and timing of any measures implemented by the consent holder to avoid, remedy or mitigate any adverse effects; and
    - (iii) the steps to be taken in future to prevent recurrence of similar events.
  6. Vehicle wheel washing facilities shall be provided at the entrances to the mine site and waste disposal area. The wheel washing facilities shall be well maintained and shall be used by all vehicles exiting the site as required, to minimise the tracking of particulate matter off-site.
  7. Access roads to the mine site and the waste disposal area (but excluding internal access roads) shall be bitumen sealed (or to an equivalent standard approved by Waikato Regional Council). Sealing shall take place as soon as practicable upon exercise of this consent and/or as part of any access road construction that is required. Sealed surfaces shall be kept as clean and free of accumulations of dust as practicable.
  8. Stockpiles shall be managed to minimise particulate emissions from this source. Methods may include but are not limited to: covering, grassing, sheltering from prevailing winds, or wetting.
  9. Exposed yard surfaces and roadways shall be kept damp as necessary to minimise particulate discharges to air, including during non-work hours.
  10. No chemical dust suppressants or additives shall be used without prior written approval from the Waikato Regional Council.
- Air Quality Management Plan**
11. Prior to exercise of this consent, the consent holder shall prepare an Air Quality Management Plan and submit this to the Council for its written certification. The Plan shall, as a minimum, specifically include the following;
    - (i) Description of the air quality control objectives.
    - (ii) Details of the site operation and maintenance practices to be implemented to meet these objectives and the conditions of this consent, and to ensure that emissions from mining operations, particularly from stockpiles, unsealed roadways, the processing plant and Waste Disposal Area, and the ventilation shaft are minimized.

- (iii) Ambient air monitoring programmes for deposited particulate matter, total matter and PM10 (particulate matter smaller than ten microns) and particle size distribution studies (including silica content).
- (iv) A programme to monitor emissions from the vent shaft.
- (v) Trigger levels for deposited particulate matter, total suspended particulate matter and PM<sub>10</sub> (particulate matter smaller than ten microns). When these are exceeded the consent holder shall investigate and report on the reason for the exceedence and identify corrective action to prevent a repeat occurrence, where possible.

The Waikato Regional Council may review these trigger levels pursuant to section 128(1)(a) only in the event that:

- The National Environmental Standards for Air Quality (as amended 2011) are amended; or
  - Relevant standards or regional guidelines are established or amended; or
  - A discharge authorised by this consent causes an objectionable or offensive effect (see condition 3 above).
- (vi) Procedures for the use of wheel washes to prevent dust tracking off-site.
  - (vii) Procedures for revegetation of benches and batters at the mine site, waste disposal area embankments, stockpiles and other bare surface areas as appropriate.
  - (viii) Details of the site operation and maintenance practices to be implemented, particularly in relation to the stockpiles, haul-ways, and access roads, to keep dust emissions to a minimum.

The Plan shall be consistent with report supplied as part of the application to the Waikato Regional Council entitled "*Air Quality Implications of Underground Mining in the Golden Link Project Area*" dated March 2012 prepared by Kevin Rolfe and the report entitled "*Project Martha – Assessment of Environmental Effects of Discharges to Air*" dated March 2018 prepared by Beca Ltd. The Plan shall provide details of monitoring to be undertaken including location, frequency and methodology of sampling and all analysis to be undertaken and the trigger levels with which the monitoring data will be assessed against.

The exercise of this consent shall be in accordance with the Plan as approved by the Council. The Plan shall be reviewed by the consent holder and updated if necessary. Any updated Plan shall be promptly forwarded to the Council for approval and once approved the amended Plan shall be implemented in place of the previous version.

In the event of any conflict or inconsistency between the conditions of this consent and the provisions of the Air Quality Management Plan, then the conditions of this consent shall prevail.

### **Monitoring**

12. The consent holder shall undertake monitoring of fine particulate and silica (or quartz) particle size distribution in accordance with the methodology defined in the Air Quality Management Plan, and shall report the results of such monitoring in writing to the Waikato Regional Council not less than once every two years, unless otherwise approved in writing by the Waikato Regional Council.
13. The consent holder shall, as a minimum, undertake monitoring in accordance with the methodology defined in the Air Quality Management Plan, prepared pursuant to condition 11 above.

14. The consent holder shall provide to the Council a written annual report each year that addresses at least the following:

- (i) A summary of the results of the monitoring required by this consent,
- (ii) Any environmentally important trends arising from the monitoring programme,
- (iii) Comment on compliance with all conditions,
- (iv) Any reasons for non-compliance or difficulties in achieving compliance with the conditions of this resource consent,
- (v) Any works that have been undertaken to improve environmental performance or that are proposed to be undertaken in the up-coming year to improve environmental performance in relation to the activities included in this consent.

The report shall be forwarded in a format acceptable to the Council.

### **Complaints**

15. If any complaints are received by the consent holder regarding dust, odour or other contaminants, the consent holder shall notify the Council of those complaints as soon as practicable. When/if complaints are received, the consent holder shall record the following details in a complaint log:

- (i) type and time of complaint;
- (ii) name and address of complainant (if available);
- (iii) location from which the complaint arose;
- (iv) wind direction at the time of complaint;
- (v) the likely cause of the complaint and any factors that influenced its severity;
- (vi) the response made by the consent holder; and
- (vii) action taken or proposed as a result of the complaint including the steps to be taken in future to prevent recurrence of similar events.

The complaint log shall be made available to the Council at all reasonable times and a copy shall be forwarded to the Council at six monthly intervals

*For and on behalf of the  
Waikato Regional Council*



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## Advice notes

1. This resource consent does not give any right of access over private or public property. Arrangements for access must be made between the consent holder and the property owner.
2. This resource consent is transferable to another owner or occupier of the land concerned, upon application, on the same conditions and for the same use as originally granted (s.134-137 RMA).
3. The consent holder may apply to change the conditions of the resource consent under s.127 RMA.
4. The reasonable costs incurred by Waikato Regional Council arising from supervision and monitoring of this/these consents will be charged to the consent holder. This may include but not be limited to routine inspection of the site by Waikato Regional Council officers or agents, liaison with the consent holder, responding to complaints or enquiries relating to the site, and review and assessment of compliance with the conditions of consents.
5. Note that pursuant to s333 of the RMA 1991, enforcement officers may at all reasonable times go onto the property that is the subject of this consent, for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.
6. If you intend to replace this consent upon its expiry, please note that an application for a new consent made at least 6 months prior to this consent's expiry gives you the right to continue exercising this consent after it expires in the event that your application is not processed prior to this consent's expiry.

## SCHEDULE ONE – GENERAL CONDITIONS

Resource consents **124859 - 124864 (inclusive)** are subject to the following general conditions, which are applicable to all consents.

### General

1. Except as otherwise provided for by subsequent conditions of consent, all activities to which this consent relates shall be undertaken generally in accordance with the information contained in the document titled **“Golden Link Project including the Correnso Underground Mine: Application for WRC for resource consent and AEE Volumes 1 and 2”** dated June 2012 and the s92 further information recorded as documents 2214077, 2214082 and 2265673 on the Waikato Regional Council’s document system for the Golden Link Project.
  - 1A The discharge to air (AUTH124859.01) shall also be undertaken generally in accordance with the information contained in the document titled **“Project Martha: Applications for Resource Consents and Assessment of Environmental Effects”** and associated appendices dated 25 May 2018 and recorded as document number 12546836. Where there are inconsistencies between these documents and the information detailed in Condition 1 above then the information contained in **“Project Martha: Applications for Resource Consents and Assessment of Environmental Effects”** shall prevail.
2. The consent holder shall notify the Council in writing, at least two weeks in advance of the first exercise of this consent.

### Annual Work Programme

3. The consent holder shall, within six months after the commencement of this consent and annually thereafter, prepare and submit to Council for information, an Annual Work Programme that outlines the anticipated activities to be performed during the following year and the management systems under which those activities will be undertaken. The Annual Work Programme shall include the following :
  - (i) Mining operations proposed for the forthcoming year.
  - (ii) Description of the sequencing of works, and description of the environmental procedures to be adopted during construction and the maintenance and management of facilities.
  - (iii) Proposed progressive rehabilitation and revegetation of the active areas of the mine operation.

The Annual Work Programme may also include any other information that the consent holder wishes, and may be combined with any other document which the consent holder is required to produce.

### Liaison Officer

4. Within two weeks of the exercising of this consent, the consent holder shall appoint a person (the “Liaison Officer”), and any replacement person subject to the approval of the Hauraki District Council and the Waikato Regional Council (the “Councils”), to liaise between the consent holder, the community and the Councils. The 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. The Liaison Officer shall be appointed for the duration of this consent. The name of the 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 and at least once a year thereafter.

## **Rehabilitation Plan**

5. The consent holder shall prepare a Rehabilitation Plan covering all areas that may be affected by the construction and use of the workings associated with the underground mining within Area L of the Golden Link Project Area. This plan shall be submitted to the Waikato Regional Council and the Hauraki District Council (the "Councils") for written approval prior to the exercise of this consent. The Plan shall set out details on backfilling and flooding the underground workings, backfilling the vent shaft and access decline, and removal of surface infrastructure. The consent holder may amend the Plan at any time. No amendments shall be made to the Plan without the written approval of the Councils. Unless otherwise agreed in writing by the Councils, the consent holder shall undertake the rehabilitation works in accordance with the approved Rehabilitation Plan.

## **Bond**

6. Unless otherwise agreed in writing by the Councils, the consent holder shall provide and maintain in favour of the Councils a rehabilitation bond to:
  - (ii) secure compliance with the conditions of this consent and to enable any adverse effect on the environment resulting from the consent holder's activities and not authorised by a resource consent to be avoided, remedied, or mitigated;
  - (iii) secure the completion of rehabilitation and closure in accordance with the Rehabilitation Plan approved by the Councils;
  - (iv) ensure the performance of any monitoring obligations of the consent holder under this consent.
7. The bond shall be in a form approved by the Councils and shall, subject to these conditions, be on the terms and conditions required by the Councils.
8. The bond shall provide that the consent holder remains liable under the Resource Management Act 1991 for any breach of the conditions of consent which occurs before expiry of this consent and for any adverse effects on the environment which become apparent during or after the expiry of the consent.
9. Unless the bond is a cash bond, the performance of all of the conditions of the bond shall be guaranteed by a guarantor acceptable to the Councils. The guarantor shall bind itself to pay for the carrying out and completion of any condition in the event of any default of the consent holder, or any occurrence of any adverse environmental effect requiring remedy.
10. The amount of the bond shall be fixed prior to the exercise of this consent or as otherwise agreed and thereafter at least annually by the Councils who shall take into account any calculations and other matters submitted by the consent holder which are relevant to the determination of the amount. The amount of the bond shall be advised in writing to the consent holder at least one month prior to the review date.
11. The amount of the bond shall include:
  - (i) the estimated costs (including any contingencies necessary) of rehabilitation and closure in accordance with the conditions of this consent, on completion of the operations proposed for the next year;
  - (ii) any further sum which the Councils consider necessary to allow for remedying any adverse effect on the environment that may arise from the exercise of this consent;
  - (iii) the estimated costs of monitoring, in accordance with the monitoring conditions of this consent, until the consent expires; and
  - (iv) any further sum which the Councils consider necessary for monitoring any adverse effect on the environment that may arise from the exercise of this consent including monitoring anything which is done to avoid, remedy, or mitigate an adverse effect.

12. Should the consent holder not agree with the amount of the bond fixed by the Councils then the matter shall be referred to arbitration in accordance with the provisions of the Arbitration Act 1996. Arbitration shall be commenced by written notice by the consent holder to each of the Councils advising that the amount of the bond is disputed, such notice to be given by the consent holder within two weeks of notification of the amount of the rehabilitation bond. If the parties cannot agree upon an arbitrator within a week of receiving the notice from the consent holder, then an arbitrator shall be appointed by the President of the Institute of Professional Engineers of New Zealand. Such arbitrator shall give an award in writing within 30 days after his or her appointment, unless the consent holder and the Councils agree that time shall be extended. The parties shall bear their own costs in connection with the arbitration. In all other respects, the provisions of the Arbitration Act 1996 shall apply. Pending the outcome of that arbitration, and subject to condition 8.8, the existing bond shall continue in force. That sum shall be adjusted in accordance with the arbitration determination.
13. If, for any reason other than default of the Councils, the decision of the arbitrator is not made available by the 30<sup>th</sup> day referred to above, then the amount of the bond shall be the sum fixed by the Councils, until such time as the arbitrator does make his/her decision. At that stage the new amount shall apply. The consent holder shall not exercise this consent if the variation of the existing bond or new bond is not provided in accordance with this condition.
14. The bond may be varied, cancelled, or renewed at any time by agreement between the consent holder and the Councils provided that cancellation will not be agreed to unless a further or new bond acceptable to the Councils is available to replace immediately that which is to be cancelled (subject however to the condition below as to release of the bond on the completion of the rehabilitation).
15. The Councils shall release the bond on the completion of the rehabilitation. This means when the rehabilitation has been completed in accordance with the approved Rehabilitation Plan and demonstrated to be successful, to the satisfaction of the Councils
16. All costs relating to the bond shall be paid by the consent holder.
17. This consent shall not be exercised unless and until the consent holder provides the bond to the Councils or provides such sureties as may be acceptable to the Councils until the bond is received.  
Note: The bond covers only those elements of the Golden Link Project not already subject to the rehabilitation bond imposed by the land use consent and resource consents granted for the Martha Mine Extended Project and Favona and Trio Underground Mine Projects.
18. These conditions form an integrated whole and are not severable.

### **Review**

19. The Waikato Regional Council may within the six month period following the anniversary of the commencement of this consent and annually thereafter, serve notice on the consent holder under section 128 of the Resource Management Act 1991, of its intention to review the conditions of this resource consent for the following purposes:
  - (i) to review the effectiveness of the conditions of this resource consent in avoiding, or mitigating, any adverse effects on the environment from the operation and, if considered appropriate by the Council, to avoid, remedy or mitigate such effects by way of further or amended conditions; and/or
  - (ii) if necessary and appropriate, in relation to discharges of contaminants, to require the holder of this resource consent to adopt the best practicable option to remove, or reduce, adverse effects on the environment resulting from the exercise of this consent; and/or
  - (iii) review the monitoring requirements in light of the results obtained from monitoring in preceding years

Costs associated with any review shall be borne by the consent holder.

**Change to Consent**

20. The consent holder may apply to the Council for a change or cancellation of any of the conditions of this consent in accordance with section 127 (1)(a) of the Resource Management Act 1991 at any time.

**Administration**

21. The consent holder shall pay to the Council any administrative charge fixed in accordance with section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act.

**Resource Consent:** AUTH139551.06.01

**Consent type:** Discharge Permit

**Consent subtype:** Land - other

**Activity authorised:** To discharge surface water from the Ohinemuri River and treated water from the Water Treatment Plant into the Martha Pit completion of mining for the purposes of flooding the underground workings and to accelerate filling of the pit lake

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 18511702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 15 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 20 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.

### UNDERGROUND MINE FLOODING, PIT LAKE FILLING AND DISCHARGE MANAGEMENT PLAN

- 4 The consent holder shall prepare an Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan. The Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan shall be submitted to the Waikato Regional Council for approval (acting in a technical certification capacity) at least six months prior to the first exercise of this consent. The Plan shall be updated on an annual basis and shall be submitted to the Waikato Regional Council for approval acting in a technical certification capacity.
- 5 The Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan shall:
  - (a) Include a re-watering strategy that considers the effects of re-watering on the relative groundwater levels within the underground workings and the Martha Pit, and:
  - (b) Include a monitoring programme to:
    - (i) Monitor the effects of re-watering on groundwater levels;
    - (ii) Monitor the effects of the discharge of water from the backfilled and flooded underground workings on groundwater quality;
    - (iii) Monitor the effects of settlement rebound during flooding of the underground workings and filling of the pit lake;
    - (iv) Assess the potential for springs and other groundwater connections that may be reactivated as a result of connections from the pit lake during the period of lake filling and for **at least** a further five years following the first discharge from the pit lake to the Mangatoetoe Stream (at which time the need for this assessment will be reviewed);
    - (v) Monitor the water quality of the pit lake at a range of depths during filling;
    - (vi) Detail triggers to indicate when mitigation actions will be required for the purposes of maintaining pit lake water quality;
    - (vii) Detail the actions that will take place in the event that discharges from springs and other connections are identified during, and following, lake filling;
    - (viii) Assess the water quality of the Mangatoetoe Stream **from the time of following** the first pit lake discharge to the stream for the purposes of confirming that as a result of the pit lake discharge (and after reasonable mixing) the quality of

the Mangatoetoe Stream meets the receiving water standards defined in Table 1. The water quality monitoring (including parameters and frequency) will be reviewed five years after the first pit lake discharge to the Mangatoetoe Stream; and

- (ix) Monitor the aquatic life found in the pit lake on an annual basis from the time of the first pit lake ~~discharge~~ overflow to the Mangatoetoe Stream. The aquatic ecology monitoring (including parameters and frequency) will be reviewed five years after the first pit lake discharge to the Mangatoetoe Stream ~~of aquatic life may cease with the written approval of the Waikato Regional Council.~~
- (c) Include mitigation actions to ensure that the water quality of any discharge from the pit lake to the Mangatoetoe Stream meets the relevant standards (Table 1). The proposed mitigation actions may include, but are not limited to, the addition of alkalinity to the pit lake during lake filling (AUTH139551.07.01).

## **UNDERGROUND MINE FLOODING, PIT LAKE FILLING AND DISCHARGE MANAGEMENT REPORT**

- 6 The consent holder shall prepare an Underground Mine Flooding, Pit Lake Filling and Discharge Management Report. This report shall be submitted within three months following the first anniversary of the commencement of this consent, and annually thereafter for as long as the monitoring under Condition 5(b) is required.
- 7 The Underground Mine Flooding, Pit Lake Filling and Discharge Management Report shall include the following information:
  - (a) Groundwater levels and the rate of rise in the underground workings and the pit lake;
  - (b) Filling progress (e.g. percentage filled and predicted 'lake full' date);
  - (c) The effects of the discharge of water from the backfilled and flooded workings on groundwater quality,
  - (d) The effects of settlement rebound during flooding of the underground workings and filling of the pit lake,
  - (e) What, if any, springs and other connections have been identified, the effect (actual and predicted) on pit lake water levels and the impact of the springs and other connections on the area at which they occur;
  - (f) Any water quality trends that are apparent from the results of the monitoring, with the emphasis on detecting any deterioration of the pit lake water quality that may require timely mitigation;
  - (g) What, if any, mitigation measures have been implemented in the previous 12 months and a prediction of what, if any, mitigation measures may be required in the following 12 months;
  - (h) The water quality of the Mangatoetoe Stream (both upstream and downstream of the discharge) after the pit lake first overflows; and
  - (i) The aquatic life found in the lake at the time of the first pit lake overflow to the Mangatoetoe Stream and any resulting comparison within subsequent years.

## **DISCHARGE**

- 8 Prior to commencing any discharge from the pit lake the consent holder shall complete, to the satisfaction of Waikato Regional Council, an updated assessment of the potential impact that the discharge will have on the flood capacity of the Mangatoetoe Stream.

The consent holder shall, if necessary, prepare a plan of works designed to mitigate the impacts of the discharge to the Mangatoetoe Stream on any potentially affected properties or public utilities in the Mangatoetoe Stream catchment.

Subject to the grant of any necessary consents, and at least ~~six~~6 months prior to commencing any discharge from pit lake, the consent holder shall implement those measures to the satisfaction of the Waikato Regional Council.

## ADMINISTRATIVE CHARGES

- 9 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Ssection 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Ssection 360 of that Act.

## REVIEW OF CONDITIONS

- 10 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.
- 11 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month** 2018

Table 1 : Mangatoetoe Receiving Water Quality Standards

Parameter (g/m <sup>3</sup> unless otherwise stated)	Receiving Water Concentration <sup>(2)</sup>	
	Hardness 20 g/m <sup>3</sup> CaCO <sub>3</sub>	Hardness 100 g/m <sup>3</sup> CaCO <sub>3</sub>
Temperature	less than 3°C increase	less than 3°C increase
pH	6.5 to 9.0	6.5 to 9.0
suspended solids	For upstream concentrations of less than or equal to 100g/m <sup>3</sup> the increase shall be no greater than 10g/m <sup>3</sup> . For upstream concentrations of greater than 100g/m <sup>3</sup> the increase shall be no greater than 10%	For upstream concentrations of less than or equal to 100g/m <sup>3</sup> the increase shall be no greater than 10g/m <sup>3</sup> . For upstream concentrations of greater than 100g/m <sup>3</sup> the increase shall be no greater than 10%
Cyanide (CN <sub>WAD</sub> ) <sup>(1)</sup>	0.093	0.093
Iron	1.0	1.0
Manganese	2.0	2.0
Copper	0.003	0.011
Nickel	0.040	0.160
Zinc	0.027	0.100
Silver <sup>1</sup>	0.0002	0.0024
Total Ammonia	Refer Table 2	Refer Table 2
Antimony	0.030	0.030
Arsenic	0.190	0.190
Selenium	0.005	0.005
Mercury	0.000012	0.000012
Cadmium	0.0003	0.001
Chromium (VI)	0.010	0.010
Lead	0.0004	0.0025

**Notes :**

- (1) Site specific derived criteria using US EPA (1985) methodology.
- (2) Monitoring of metals shall be based on the soluble test method, defined as the concentration of dissolved metals measured in that fraction which passes through a 0.45 um filter, except for mercury (Hg) which shall be based on acid soluble concentrations determined on unfiltered samples.
- (3) Current analytical procedures for mercury have a practical quantification limit (PQL) of 0.0005 ppm. This PQL is acceptable for the purposes of reporting mercury concentrations. The reporting 'limit' for mercury concentrations shall be reviewed

annually by the consent holder and shall be adjusted in line with improvements in analytical technology.

**Table 2 : Criteria For Total Ammonia**

Chronic Criterion - g/m <sup>3</sup> as Ammonia							
Temp °C	0	5	10	15	20	25	30
pH							
6.50	3.0	2.8	2.7	2.5	2.5	2.5	2.4
6.75	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.00	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.25	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.50	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.75	2.8	2.6	2.5	2.4	2.3	2.3	2.4
8.00	1.82	1.70	1.62	1.57	1.55	1.55	1.59
8.25	1.03	0.97	0.93	0.90	0.90	0.91	0.94
8.50	0.58	0.55	0.53	0.53	0.53	0.55	0.58
8.75	0.34	0.32	0.31	0.31	0.32	0.35	0.38
9.00	0.19 5	0.18 9	0.18 9	0.19 5	0.21	0.23	0.27

**Note:** To convert these values to mg/l as nitrogen, multiply by 0.822.

**Resource Consent:** AUTH139551.07.01

**Consent type:** Discharge Permit

**Consent subtype:** Water - other

**Activity authorised:** To discharge limestone to the pit lake

**Location:** Waihi

**Lapse Period** 15 years from the date of commencement

**Spatial reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 25 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 35 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least two weeks in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.
- 4 At least 20 working days prior to the first exercise of this consent, the consent holder shall provide the Waikato Regional Council with the methodology for the addition of limestone to the pit lake for certification. The methodology shall also detail the water quality triggers for the pit lake that would warrant the addition of limestone, and should be based on those documented in the Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan required in accordance with ~~§~~AUTH139551.06.01 ~~—~~(Discharge to Pit Lake) and AUTH139551.08.01 (Discharge to Mangatoetoe Stream).

### ADMINISTRATIVE CHARGES

- 5 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Section 360 of that Act.

### REVIEW OF CONDITIONS

- 6 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
  - (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.

- 7 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month/Year**



**Resource Consent:** AUTH139551,.72.01

**Consent type:** Discharge Permit

**Consent subtype:** Discharge to Water

**Activity authorised:** To temporarily discharge groundwater, diverted during the construction of the pit lake outlet, to the Mangatoetoe Stream

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 20 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 10 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with "Project Martha: Applications for Resource Consents and Assessment of Environmental Effects" and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council's document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least ~~two weeks~~ 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.
- 4 The consent holder shall provide the Waikato Regional Council with an 'Erosion and Sediment Control Plan' (ESCP), at least 10 working days prior to the commencement of works authorised by this consent ~~to the Waikato Regional Council for approval acting in a technical certification capacity~~. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled "Erosion and Sediment Control - Guidelines for Soil Disturbing Activities" (Technical Report No. 2009/02 - dated January 2009).
- 5 ~~The ESCP consent holder shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works authorised by this consent commencing, and the consent holder shall undertake all works authorised by this consent in accordance with the approved ESCP.~~  
~~provide an 'Erosion and Sediment Control Plan' (ESCP), at least 10 working days prior to the commencement of works authorised by this consent to the Waikato Regional Council for approval in a technical certification capacity. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled "Erosion and Sediment Control - Guidelines for Soil Disturbing Activities" (Technical Report No. 2009/02 - dated January 2009).~~
- 56 All activities authorised by this consent shall be undertaken in such a manner to ensure that dust emissions are kept to a practicable minimum and in accordance with the provisions of Waikato Regional Council resource consent 124859 and the Air Quality Management Plan.

### NOTIFICATION – NES REQUIREMENT

- 67 The consent holder shall as soon as reasonably practicable, notify the Hauraki District Council, Matamata Piako District Council and the Waikato Regional Council of an event that may in itself, or as a consequence of an event, have a significant adverse effect on the quality of the water within the Ohinemuri River and Waihou River at the abstraction point of the

Paeroa Water Supply, Kerepehi Water Supply and / or Te Aroha Water Supply. The consent holder shall record the reasons why the situation occurred, the actions taken by the consent holder and an assessment of what measures can be adopted in the future to minimise such occurrences, and upon written request from the Waikato Regional Council provide a report to the ~~Waikato Regional~~ Council and the Medical Officer of Health addressing this matter.

## ADMINISTRATIVE CHARGES

78 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Ssection 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Ssection 360 of that Act.

## REVIEW OF CONDITIONS

89 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
- (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.

910 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month** 2018

**Resource Consent:** AUTH13955L.O2.01

**Consent type:** Discharge Permit

**Consent subtype:** Land - other

**Activity authorised:** To place ore, waste rock, topsoil and tramp material to land within, and adjacent to, the Martha Pit, including stockpiled material and material for the creation of noise bunds.

**Location:** Waihi

**Lapse period:** Five years from the date of commencement

**Spatial reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence five years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 20 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.

### SITE WORKS AND MANAGEMENT

- 4 The consent holder shall be responsible for the structural integrity and maintenance of the works associated with the exercise of this consents and for any erosion control and energy dissipation works which become necessary as a consequence of the exercise of this consent.
- 5 The consent holder shall provide the Waikato Regional Council with an ‘Erosion and Sediment Control Plan’ (ESCP), at least 10 working days prior to the commencement of works authorised by this consent. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled “Erosion and Sediment Control – Guidelines for Soil Disturbing Activities” (Technical Report No. 2009/02 – dated January 2009).
- 6 The ESCP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works authorised by this consent commencing and the consent holder shall undertake all works authorised by this consent in accordance with the approved ESCP.
- 7 All activities authorised by this consent shall be undertaken in such a manner to ensure that dust emissions are kept to a practicable minimum and in accordance with the provisions of Waikato Regional Council resource consent 124859 and the Air Quality Management Plan.

### ADMINISTRATIVE CHARGES

- 8 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Ssection 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Ssection 360 of that Act.

### REVIEW OF CONDITIONS

- 9 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.
- 10 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month/Year**

**Resource Consent:** AUTH139551.08.01

**Consent type:** Discharge Permit

**Consent subtype:** Water - other

**Activity authorised:** To discharge overflow from the lake via an outlet structure and channel to the Mangatoetoe Stream

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 25 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 35 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One ~~which relates as relevant~~ to the management of the mining and rehabilitation activities authorised by this consent.
- 4 The maximum rate of discharge must not exceed 4.32 cubic metres per second and an average daily rate of 13 litres per second.

### DISCHARGE QUALITY

- 5 The discharges authorised by this consent, in combination with all other discharges authorised for this site, shall not cause a significant adverse environmental effect on the receiving water, or on users of that resource, or in the case of surface water, on aquatic biota. To that end any discharge to the Mangatoetoe Stream, either separately or in combination with other discharges, shall not cause the receiving water standards in Table 1 to be breached.

### NOTIFICATION – NES REQUIREMENT

- 6 The consent holder shall as soon as reasonably practicable, notify the Hauraki District Council, Matamata Piako District Council and the Waikato Regional Council of an event that may in itself, or as a consequence of an event, have a significant adverse effect on the quality of the water within the Ohinemuri River and Waihou River at the abstraction point of the Paeroa Water Supply, Kerepehi Water Supply and / or Te Aroha Water Supply. The consent holder shall record the reasons why the situation occurred, the actions taken by the consent holder and an assessment of what measures can be adopted in the future to minimise such occurrences and upon written request from the Waikato Regional Council provide a report to the ~~Waikato Regional~~ Council and the Medical Officer of Health addressing this matter.

### UNDERGROUND MINE FLOODING, PIT LAKE FILLING AND DISCHARGE MANAGEMENT PLAN

- 7 The consent holder shall prepare an Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan. The Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan shall be submitted to the Waikato Regional Council for approval (acting in a technical certification capacity) at least six months prior to the first exercise of this consent. The Plan shall be updated on an annual basis and shall be submitted to the Waikato Regional Council for approval acting in a technical certification capacity.
- 8 The Underground Mine Flooding, Pit Lake Filling and Discharge Management Plan shall:

- (a) Include a re-watering strategy that considers the effects of re-watering on the relative groundwater levels within the underground workings and the Martha Pit, and:
- (b) Include a monitoring programme to:
  - (i) Monitor the effects of re-watering on groundwater levels;
  - (ii) Monitor the effects of the discharge of water from the backfilled and flooded underground workings on groundwater quality;
  - (iii) Monitor the effects of settlement rebound during flooding of the underground workings and filling of the pit lake;
  - (iv) Assess the potential for springs and other groundwater connections that may be reactivated as a result of connections from the pit lake during the period of lake filling and for ~~at least~~ a further five years following the first discharge from the pit lake to the Mangatoetoe Stream (at which time the need for this assessment will be reviewed);
  - (v) Monitor the water quality of the pit lake at a range of depths during filling;
  - (vi) Detail triggers to indicate when mitigation actions will be required for the purposes of maintaining pit lake water quality;
  - (vii) Detail the actions that will take place in the event that discharges from springs and other connections are identified during, and following, lake filling;
  - (viii) Assess the water quality of the Mangatoetoe Stream from the time of following the first pit lake discharge to the stream for the purposes of confirming that as a result of the pit lake discharge (and after reasonable mixing) the quality of the Mangatoetoe Stream meets the receiving water standards defined in Table 1. The water quality monitoring (including parameters and frequency) will be reviewed five years after the first pit lake discharge to the Mangatoetoe Stream may cease with the written approval of the Waikato Regional Council; and
  - (ix) Monitor the aquatic life found in the pit lake on an annual basis from the time of the first pit lake discharge/overflow to the Mangatoetoe Stream. The aquatic ecology monitoring (including parameters and frequency) will be reviewed five years after the first pit lake discharge to the Mangatoetoe Stream may cease with the written approval of the Waikato Regional Council.
- (c) Include mitigation actions to ensure that the water quality of any discharge from the pit lake to the Mangatoetoe Stream meets the relevant standards (Table 1). The proposed mitigation actions may include, but are not limited to, the addition of alkalinity to the pit lake during lake filling (AUTH139551.06.01).

## UNDERGROUND MINE FLOODING, PIT LAKE FILLING AND DISCHARGE MANAGEMENT REPORT

- 9 The consent holder shall submit an Underground Mine Flooding, Pit Lake Filling and Discharge Management Report. This report shall be submitted within three months following the first anniversary of the commencement of this consent, and annually thereafter for as long as the monitoring under Condition 8(b) is required.
- 10 The Underground Mine Flooding, Pit Lake Filling and Discharge Management Report shall include the following information:

- (a) Groundwater levels and the rate of rise in the underground workings and the pit lake;
- (b) Filling progress (e.g. percentage filled and predicted 'lake full' date);
- (c) The effects of the discharge of water from the backfilled and flooded workings on groundwater quality;
- (d) The effects of settlement rebound during flooding of the underground workings and filling of the pit lake;
- (e) What, if any, springs and other connections have been identified, the effect (actual and predicted) on pPit lLake water levels and the impact of the springs and other connections on the area at which they occur;
- (f) Any water quality trends that are apparent from the results of the monitoring, with the emphasis on detecting any deterioration of the pit lake water quality that may require timely mitigation;
- (g) What, if any, mitigation measures have been implemented in the previous 12 months and a prediction of what, if any, mitigation measures may be required in the following 12 months;
- (h) The water quality of the Mangatoetoe Stream (both upstream and downstream) after the pit lake first overflows; and
- (i) The aquatic life found in the lake at the time of the first pit lake overflow to the Mangatoetoe Stream any resulting comparison with subsequent years.

## DISCHARGE

- 11 Prior to commencing any discharge from the pit lake the consent holder shall complete, to the satisfaction of Waikato Regional Council, an updated assessment of the potential likely impact that the discharge will have on the flood capacity of the Mangatoetoe Stream.

The consent holder shall, if necessary, then prepare a plan of works designed to mitigate the impacts of the discharge to the Mangatoetoe Stream on any potentially affected properties or public utilities in the Mangatoetoe Stream catchment.

Subject to the grant of any necessary consents, and at least six months prior to commencing any discharge from pit lake, the consent holder shall implement those measures to the satisfaction of the Waikato Regional Council.

## ADMINISTRATIVE CHARGES

- 12 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Ssection 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Ssection 360 of that Act.

## REVIEW OF CONDITIONS

- 13 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects

by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;

- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at ~~the~~ time of commencement of this consent; or
- (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.

14 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month** 2018

**Table 1 : Mangatoetoe Receiving Water Quality Standards**

Parameter (g/m <sup>3</sup> unless otherwise stated)	Receiving Water Concentration <sup>(2)</sup>	
	Hardness 20 g/m <sup>3</sup> CaCO <sub>3</sub>	Hardness 100 g/m <sup>3</sup> CaCO <sub>3</sub>
Temperature	less than 3°C increase	less than 3°C increase
pH	6.5 to 9.0	6.5 to 9.0
suspended solids	For upstream concentrations of less than or equal to 100g/m <sup>3</sup> the increase shall be no greater than 10g/m <sup>3</sup> . For upstream concentrations of greater than 100g/m <sup>3</sup> the increase shall be no greater than 10%	For upstream concentrations of less than or equal to 100g/m <sup>3</sup> the increase shall be no greater than 10g/m <sup>3</sup> . For upstream concentrations of greater than 100g/m <sup>3</sup> the increase shall be no greater than 10%
Cyanide (CN <sub>WAD</sub> ) <sup>(1)</sup>	0.093	0.093
Iron	1.0	1.0
Manganese	2.0	2.0
Copper	0.003	0.011
Nickel	0.040	0.160
Zinc	0.027	0.100
Silver <sup>1</sup>	0.0002	0.0024
Total Ammonia	Refer Table 2	Refer Table 2
Antimony	0.030	0.030
Arsenic	0.190	0.190
Selenium	0.005	0.005
Mercury	0.000012	0.000012
Cadmium	0.0003	0.001
Chromium (VI)	0.010	0.010
Lead	0.0004	0.0025

**Notes :**

- (1) Site specific derived criteria using US EPA (1985) methodology.
- (2) Monitoring of metals shall be based on the soluble test method, defined as the concentration of dissolved metals measured in that fraction which passes through a 0.45 um filter, except for mercury (Hg) which shall be based on acid soluble concentrations determined on unfiltered samples.
- (3) Current analytical procedures for mercury have a practical quantification limit (PQL) of 0.0005 ppm. This PQL is acceptable for the purposes of reporting mercury concentrations. The reporting 'limit' for mercury concentrations shall be reviewed

annually by the consent holder and shall be adjusted in line with improvements in analytical technology.

**Table 2 : Criteria For Total Ammonia**

Chronic Criterion - g/m <sup>3</sup> as Ammonia							
Temp °C	0	5	10	15	20	25	30
pH							
6.50	3.0	2.8	2.7	2.5	2.5	2.5	2.4
6.75	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.00	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.25	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.50	3.0	2.8	2.7	2.6	2.5	2.5	2.5
7.75	2.8	2.6	2.5	2.4	2.3	2.3	2.4
8.00	1.82	1.70	1.62	1.57	1.55	1.55	1.59
8.25	1.03	0.97	0.93	0.90	0.90	0.91	0.94
8.50	0.58	0.55	0.53	0.53	0.53	0.55	0.58
8.75	0.34	0.32	0.31	0.31	0.32	0.35	0.38
9.00	0.19 5	0.18 9	0.18 9	0.19 5	0.21	0.23	0.27

**Note:** To convert these values to mg/l as nitrogen, multiply by 0.822.

**Resource Consent:** AUTH139551.04.01

**Consent Type:** Land use consent

**Consent Subtype:** Land disturbance

**Activity authorised:** To place rock and Concrete Aggregate Fill into land in the Martha Underground Mine

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence five years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 25 years from the date of commencement.

**Subject to the conditions overleaf:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.

### BACKFILLING

- 4 The consent holder shall ensure that the backfilling of all stopes associated with the underground workings occurs by the end of mine life.

### GROUNDWATER MONITORING

- 5 Piezometers shall be installed at sites to be approved by the Waikato Regional Council for the purpose of monitoring changes in groundwater level arising from the exercise of this consent. The groundwater monitoring system shall be detailed in the Dewatering and Settlement Monitoring Plan, prepared pursuant to Condition 15 of Schedule One.

### CHARACTERISATION OF UNDERGROUND MINING MATERIAL

- 6 ~~Prior to the commencement of this consent t~~The consent holder shall devise a monitoring programme that characterises the overburden and ore from Project Martha to confirm (or otherwise) that this material is chemically similar to previous material mined from the Martha Pit. The monitoring programme shall as a minimum, be based on the recommendations contained in the report entitled *Project Martha Geochemical Assessment, 24 May 2018* by AECOM and shall be submitted by the consent holder to the Waikato Regional Council for certification at least 10 working days prior to the first exercise of this consent. Any subsequent updates to the monitoring programme shall be submitted to the Waikato Regional Council for approval acting in a certification capacity.
- 7 The results of the monitoring programme referred within Condition 6 shall, as a minimum, be reported to the Waikato Regional Council on an annual basis.
- 8 Should the monitoring programme referred to in Condition 6 demonstrate that the material significantly varies from the Martha Pit rock and ore samples, then the reporting of results required by Condition 7 shall also identify appropriate contingency and/or remedial measures to address any effects on pit lake water quality to ensure compliance with the conditions of resource consents ~~(AUTH139551.05.01 and AUTH139551.08.01 –~~(Pit Lake Formation and Discharge Consents).

### ADMINISTRATIVE CHARGES

- 9 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Section 360 of that Act.

## REVIEW OF CONDITIONS

- 10 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.
- 11 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review ~~Waikato Regional~~ Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this x day of Month 2018

**Resource Consent:** AUTH139551.09.01

**Consent type:** Land Use Consent

**Consent subtype:** Bed – structure

**Activity authorised:** To construct and use an intake structure in the Ohinemuri River.

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 15 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 10 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.
- 3 The consent holder shall be responsible for the structural integrity and maintenance of the works associated with the exercise of ~~thisese~~ consents and for any erosion control and energy dissipation works which become necessary as a consequence of the exercise of ~~thisese~~ consents.

### SCHEDULE ONE

- 4 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent

### CONSTRUCTION DESIGN REPORT

- 5 Prior to commencing construction of the water intake structure and infrastructure, the consent holder shall prepare a detailed construction/design report and management plan for certification approval by the Waikato Regional Council (~~acting in a technical certification capacity~~), which shall include:
  - (a) A construction methodology;
  - (b) Estimated duration of works;
  - (c) Details of any excavation works (together with details of erosion and sediment control);
  - (d) Details of site remediation (stabilisation);
  - (e) Details of erosion and sediment controls;
  - (f) A dewatering methodology (if dewatering is required); and
  - (g) Measures to prevent concrete and water which has been in contact with uncured concrete from discharging to surface water.

### Advice Note

*The consent holder will also need to comply with the conditions of Consent **XXX** from the Hauraki District Council with respect to the construction of the wateriver intake structure.*

- 6 The consent holder shall provide the Waikato Regional Council with an ‘Erosion and Sediment Control Plan’ (ESCP) at least 10 working days prior to the commencement of works authorised by this consent. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which

~~are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council measures shall be implemented on site over the course of the streambed disturbance activities. All erosion and sediment control measures shall be established and maintained in accordance with the document titled "Erosion and Sediment Control - Guidelines for Soil Disturbing Activities" (Technical Report No. 2009/02 - dated January 2009).", and the Erosion and Sediment Control Plan approved by the Waikato Regional Council (acting in a technical certification capacity).~~

- 7 ~~The ESCP shall be approved in writing by the consent holder shall provide an 'Erosion and Sediment Control Plan' (ESCP), at least 10 working days prior to the commencement of works authorised by this consent to the Waikato Regional Council acting in for approval in a technical certification capacity prior to any works authorised by this consent commencing, and the consent holder shall undertake all works authorised by this consent in accordance with the approved ESCP. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled "Erosion and Sediment Control - Guidelines for Soil Disturbing Activities" (Technical Report No. 2009/02 - dated January 2009).~~
- 8 All activities authorised by this consent shall be undertaken in such a manner to ensure that dust emissions are kept to a practicable minimum and in accordance with the provisions of Waikato Regional Council resource consent 124859 and the Air Quality Management Plan.

#### **OHINEMURI RIVER INTAKE**

- 9 The intake shall be provided with a screen designed such that the intake velocity at the screen surface does not exceed 0.3 metres per second.
- 10 The intake screen mesh aperture size shall not exceed 3 millimetres in dimension and the intake screen shall be located parallel to the river flow.
- 11 Disturbance to the stream bed during installation of the intake structure shall be minimised.
- 12 The consent holder shall retain a person or persons with recognised documented experience in the design of such structures (the Designer). All aspects of the design of this ~~intake~~ intake structure shall be undertaken under the supervision of the Designer, who shall prior to the exercise of this consent provide to Waikato Regional Council written confirmation that all aspects of the design of this structure have been suitably investigated and properly and safely designed in accordance with currently accepted engineering practise.
- 13 The intake structure and channel construction works shall be implemented under the supervision of persons with appropriate experience in the supervision of civil engineering construction works.
- 14 Following completion of the construction of this intake structure the Designer shall supply to Waikato Regional Council further written confirmation that construction has been completed according to the design.

#### **ADMINISTRATIVE CHARGES**

- 15 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Ssection 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Ssection 360 of that Act.

#### **REVIEW OF CONDITIONS**

- 16 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.
- 17 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **X** day of **Month** 2018

**Resource Consent:** AUTH139551.10.01

**Consent type:** Land Use Consent

**Consent subtype:** Bed - structure

**Activity authorised:** To construct and use an outlet structure in the Mangatoetoe Stream

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 20 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 10 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.
- 3 The consent holder shall be responsible for the structural integrity and maintenance of the works associated with the exercise of ~~thisese~~ consents and for any erosion control and energy dissipation works which become necessary as a consequence of the exercise of ~~thisese~~ consents.

### SCHEDULE ONE

- 4 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One ~~as relevant which relate~~ to the management of the mining and rehabilitation activities authorised by this consent.

### CONSTRUCTION DESIGN REPORT

- 5 Prior to commencing construction of the outlet structure and infrastructure, the consent holder shall prepare a detailed construction / design report and management plan for certification by the Waikato Regional Council, which shall include:
  - (a) A construction methodology;
  - (b) Estimated duration of works;
  - (c) Details of any excavation works (together with details of erosion and sediment control);
  - (d) Details of site remediation (stabilisation);
  - (e) Details of erosion and sediment controls;
  - (f) A dewatering methodology (if dewatering is required); and
  - (g) Measures to prevent concrete and water which has been in contact with uncured concrete from discharging to surface water.

#### **Advice Note**

*The consent holder will also need to comply with the conditions of Consent **XXX** from the Hauraki District Council with respect to the construction of the lake outlet structure.*

- 6 The consent holder shall provide the Waikato Regional Council with an ‘Erosion and Sediment Control Plan’ (ESCP) at least 10 working days prior to the commencement of works authorised by this consent. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by the consent and contained ~~Erosion and sediment~~

~~control measures shall be implemented on site over the course of the streambed disturbance activities. All erosion and sediment control measures shall be established and maintained in accordance with the Waikato Regional Council document titled "Erosion and Sediment Control - Guidelines for Soil Disturbing Activities (Technical Report No. 2009/02 – dated January 2009)", and the Erosion and Sediment Control Plan approved by the Waikato Regional Council (acting in a technical certification capacity).~~

~~7 The consent holder shall provide an 'Erosion and Sediment Control Plan' (ESCP), at least 10  
8 working days prior to the commencement of works authorised by this consent to the Waikato  
9 Regional Council for approval in a technical certification capacity. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled "Erosion and Sediment Control Guidelines for Soil Disturbing Activities" (Technical Report No. 2009/02 – dated January 2009).~~

7 The ESCP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works authorised by this consent commencing, and the consent holder shall undertake all works authorised by this consent in accordance with the approved ESCP.

408 All activities authorised by this consent shall be undertaken in such a manner to ensure that dust emissions are kept to a practicable minimum and in accordance with the provisions of Waikato Regional Council resource consent 124859 and the Air Quality Management Plan.

~~11 In the event of any archaeological site or koiwi being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease and the Waikato Regional Council and Heritage New Zealand shall be notified as soon as practicable and within 48 hours of a discovery. The consent holder shall consult with the relevant iwi/hapū and Heritage New Zealand, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand approvals or other approvals to damage, destroy or modify such sites have been obtained where necessary. Works may recommence with the written approval of the Waikato Regional Council. Such approval shall only be given after the Council has considered:~~

~~(a) Tangata Whenua interests and values;~~

~~(b) Protocols agreed upon by Tangata Whenua and the consent holder;~~

~~(c) The consent holders interests;~~

~~(d) Any Heritage New Zealand authorisations; and~~

~~(e) Any archaeological or scientific evidence.~~

## **PIT LAKE OUTLET**

429 The pit lake outlet shall be at, or about, RL104 m above mean sea level (RL1104 m above mine datum).

4310 The pit lake outlet structure shall be designed in such a manner that provides for the passage of short-finned and long-finned eels to and from the pit lake.

4411 Disturbance to the Mangatoetoe Stream bed during installation of the outlet structure shall be minimised.

~~45~~12 The consent holder shall retain a person or persons with recognised documented experience in the design of such structures (the Designer). All aspects of the design of this outlet structure shall be undertaken under the supervision of the Designer, who shall prior to the exercise of this consent provide to Waikato Regional Council written confirmation that all aspects of the design of this structure have been suitably investigated and properly and safely designed in accordance with currently accepted engineering practise.

~~46~~13 The outlet structure and channel construction works shall be implemented under the supervision of persons with appropriate experience in the supervision of civil engineering construction works.

~~47~~14 Following completion of the construction of this outlet structure the Designer shall supply to Waikato Regional Council further written confirmation that construction has been completed according to the design.

### **ADMINISTRATIVE CHARGES**

~~48~~15 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Ssection 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Ssection 360 of that Act.

### **REVIEW OF CONDITIONS**

~~49~~16 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
- (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.

~~20~~17 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month** 2018

**Resource Consent:** AUTH139551.03.01

**Consent type:** Land Use Consent

**Consent subtype:** Land disturbance

**Activity authorised:** To remove vegetation and carry out earthworks and contouring of land for mining, mining operations and post-mining operations (including for rehabilitation purposes) associated with the Project Martha.

**Location:** Waihi

**Lapse period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence five years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 20 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.
- 4 The consent holder shall be responsible for the structural integrity and maintenance of the works associated with the exercise of this consent and for any erosion control and energy dissipation works which become necessary as a consequence of the exercise of this consent.
- 5 The consent holder shall provide the Waikato Regional Council with an ‘Erosion and Sediment Control Plan’ (ESCP), at least 10 working days prior to the commencement of works authorised by this consent ~~to the Waikato Regional Council for approval (acting in a technical certification capacity)~~. The objective of the ESCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period. The ESCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled “Erosion and Sediment Control – Guidelines for Soil Disturbing Activities” (Technical Report No. 2009/02 – dated January 2009).
- 6 The ESCP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity, prior to any works authorised by this consent commencing, and the consent holder shall undertake all works authorised by this consent in accordance with the approved ESCP.
- 7 All activities authorised by this consent shall be undertaken in such a manner to ensure that dust emissions are kept to a practicable minimum and in accordance with the provisions of Waikato Regional Council resource consent 124859 and the Air Quality Management Plan.
- 8 The consent holder shall dispose of all material arising through vegetation clearance in a manner that minimises effects on neighbouring properties.
- ~~9 In the event of any archaeological site or koiwi being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease and the Waikato Regional Council and Heritage New Zealand shall be notified as soon as practicable and within 48 hours of a discovery. The consent holder shall consult with the relevant iwi / hapu and Heritage New Zealand, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand approvals or other approvals to damage, destroy or modify such sites have been obtained where necessary. Works may recommence with the written approval of the Waikato Regional Council. Such approval shall only be given after the Council has considered:~~

- ~~(a) — Tangata Whenua interests and values;~~
- ~~(b) — Protocols agreed upon by Tangata Whenua and the consent holder;~~
- ~~(c) — The consent holder interests;~~
- ~~(d) — Any Heritage New Zealand authorisations; and~~
- ~~(e) — Any archaeological or scientific evidence.~~

## ADMINISTRATIVE CHARGES

~~109~~ The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with ~~S~~section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under ~~S~~section 360 of that Act.

## REVIEW OF CONDITIONS

~~110~~ Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
- (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.

~~1211~~ Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this ~~x~~ day of **Month/Year**



**Resource Consent:** AUTH139551.01.01

**Consent Type:** Water permit

**Consent Subtype:** Groundwater take

**Activity authorised:** To take groundwater, including geothermal water, associated with the dewatering of the Martha Pit and associated underground workings including the Martha Underground Mine.

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence five years from the date of grant unless the consent holder has by notification in writing to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 25 years from the date of commencement.

**Subject to the conditions overleaf:**

## CONDITIONS

### GENERAL

- 1 The ~~groundwater take and dewatering~~ activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.

### DEWATERING LEVEL

- 4 The exercise of this consent shall not result in groundwater lowering to a level below 500mRL.

### MONITORING

- 5 Upon commencement of this consent, the consent holder shall monitor the volume of water abstracted on a weekly basis and shall report this to the Waikato Regional Council.
- 6 Upon the first exercise of this consent the consent holder must telemeter – via a telemetry system developed after liaison with the Waikato Regional Council to ensure that the telemetry system is compatible with the Waikato Regional Council telemetry system standards and data protocols – continuous 15 minute values of: gross take volume (in units of cubic metres). The data must be reported once daily to the Waikato Regional Council via the telemetry system. There must be 96 values, respectively, per daily report. When no water is being taken the data must specify the gross take volume and calculated net take volume as zero.
- 7 The consent holder shall monitor the chemistry of the water abstracted under this consent. Prior to the commencement of this consent the sampling parameters and frequencies shall be agreed with the Waikato Regional Council, with the results forwarded to the Waikato Regional Council on an annual basis. The consent holder may change the sampling parameters and frequencies with the agreement of the Waikato Regional Council.

### OTHER WATER USERS

- 8 If, in the opinion of the Waikato Regional Council, the exercise of this consent adversely affects any existing stock, domestic or other water supplies, then the consent holder shall, at its own cost, be responsible for providing to the owner of those water supplies an alternative equivalent water supply, to the satisfaction of Waikato Regional Council. The consent holder shall be responsible for making an alternative water supply available within 12 hours of being directed to do so by the Council.

### ~~MONITORING OF THE SHALLOW AND DEEP AQUIFERS~~

- ~~9 The consent holder shall upon commencement of this consent and at five yearly intervals thereafter, provide a report to the Waikato Regional Council commenting on the effect the~~

~~groundwater take and dewatering activity is having on the deep and shallow Waihi Basin aquifers. The report shall as a minimum, provide the following information:~~

~~(a) The nature of the Waihi basin geology;~~

~~(b) Comment on the historical and existing groundwater chemistry for the deep and shallow aquifers;~~

~~(c) Comment on the historical groundwater levels in the deep and shallow aquifers;~~

~~(d) Identify any known and observed spring presence and flows within the Waihi Basin;~~

~~(e) Provide details of any wetland areas and any other known aquatic ecological that is dependent on the surface contribution of shallow and deep groundwater outflows within the Waihi Basin;~~

~~(f) Historical rainfall data; and~~

~~(g) Any known land use data.~~

~~Taking into account all of this information (and any other relevant data) the consent holder shall provide comment on the effects the dewatering activity is having on the shallow and deep aquifers within the Waihi Basin.~~

## ADMINISTRATIVE CHARGES

~~409~~ The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under ~~S~~section 360 of that Act.

## REVIEW OF CONDITIONS

~~410~~ Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:

- (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
- (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
- (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.

~~4211~~ Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month/Year**



**Resource Consent:** AUTH139551.11.01

**Consent type:** Water permit

**Consent subtype:** Diversion

**Activity authorised:** To temporarily divert groundwater during the construction of the outlet structure in the Mangatoetoe Stream

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 20 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 10 years from the date of commencement.

**Subject to the following conditions:**

## CONDITIONS

### GENERAL

- 1 The activities to which this consent relates, shall be generally undertaken in accordance with “Project Martha: Applications for Resource Consents and Assessment of Environmental Effects” and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council’s document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
- 2 The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.

### SCHEDULE ONE

- 3 The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.

### ADMINISTRATIVE CHARGES

- 4 The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with Section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under Section 360 of that Act.

### REVIEW OF CONDITIONS

- 5 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
  - (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the Waikato Regional Council shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.
- 6 Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month/Year**



**Resource Consent:** AUTH139551.05.01

**Consent Type:** Water permit

**Consent Subtype:** Surface water take

**Activity authorised:** To take and use water from the Ohinemuri River to flood the Martha Pit and associated underground workings.

**Location:** Waihi

**Lapse Period:** Five years from the date of commencement

**Spatial Reference:** NZTM 1851702 E 5858472 N

**Consent Duration:** This consent shall:

- i) commence 15 years from the date of grant unless the consent holder has by notification to the Waikato Regional Council nominated an earlier commencement date; and
- ii) expire 20 years from the date of commencement.

**Subject to the conditions overleaf:**

## CONDITIONS

### GENERAL

1. The activities to which this consent relates, shall be generally undertaken in accordance with "Project Martha: Applications for Resource Consents and Assessment of Environmental Effects" and associated appendices dated 25 May 2018 and recorded as document number 12546836 on the Waikato Regional Council's document management system, and as identified in the resource consent conditions below which shall prevail in the event of any inconsistency between the aforementioned documentation and the conditions.
2. The consent holder shall notify the Waikato Regional Council in writing, at least 10 working days in advance of the first exercise of this consent.
3. This resource consent shall not be exercised until Resource Consents 971287, 121417, 121695 and 124862 have all been surrendered by the consent holder.

### SCHEDULE ONE

4. The consent holder shall comply with the common conditions between the Waikato Regional Council and Hauraki District Council in Schedule One which relate to the management of the mining and rehabilitation activities authorised by this consent.

### ABSTRACTION RESTRICTIONS

5. The maximum instantaneous net rate of take must not exceed 270 litres per second.
6. This consent shall not be exercised when the flow in the Ohinemuri River is less than twice the 7-day mean annual low flow at the point of abstraction, and when the temperature of the Ohinemuri River, measured immediately upstream of the point of abstraction is at or above 25°C.
7. This consent shall only be exercised when the maximum rate of abstraction from the Ohinemuri River is greater than 20% of the river flow at the point of abstraction.

### RIVER GAUGING FACILITIES

8. Prior to the first exercise of this consent the consent holder shall establish and maintain monitoring facilities for the purposes of determining the Ohinemuri River flow at the point of abstraction and water temperature immediately upstream of the abstraction point. These facilities shall be located, installed and operated to the satisfaction of the Waikato Regional Council.

### RIVER FLOW AND ABSTRACTION RECORDING

9. Upon the first exercise commencement of this consent, the consent holder shall monitor the volume of water abstracted from the Ohinemuri River and ~~determine and~~ record ~~daily~~ the flow in the ~~Ohinemuri~~ River at the point of abstraction on a daily basis, and must report this data to the Waikato Regional Council.
10. Upon the first exercise of this consent the consent holder must telemeter - via a telemetry system developed after liaison with the Waikato Regional Council to ensure that the telemetry system is compatible with Waikato Regional Council telemetry system standards and data protocols - continuous 15 minute values of: gross take volume (in units of cubic metres). The data must be reported once daily to the Waikato Regional Council via the telemetry system. There must be 96 values, respectively, per daily report. When no water is being taken the data must specify the gross take volume and calculated net take volume as zero.

11. Upon commencement of this consent and thereafter at five yearly intervals, the consent holder shall undertake an assessment of the accuracy of the water measuring system. The assessment shall be undertaken by an independent, qualified person and evidence documenting the assessment shall be forwarded to the Waikato Regional Council within one month of the assessment occurring.

#### **ADMINISTRATIVE CHARGES**

12. The consent holder shall pay to the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with regulations made under section 360 of that Act.

#### **REVIEW OF CONDITIONS**

13. Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may, 12 months from the commencement of this consent and annually thereafter, or on receipt of any of the reports required by this consent, review any or all of the conditions of this consent for the following purposes:
  - (a) To review the effectiveness of the conditions of this resource consent in avoiding, remedying or mitigating any adverse effects on the environment that may arise from the exercise of this consent, and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions. In deciding to undertake a review and where further or amended conditions are deemed necessary, the [Waikato Regional Council](#) shall have regard to all of the information contained in the reports required under the conditions of this consent;
  - (b) To address any adverse effects on the environment which have arisen as a result of the exercise of this consent that were not anticipated at the time of commencement of this consent; or
  - (c) To review the adequacy of, and the necessity for, any of the monitoring programmes or management plans that are part of the conditions of this consent.
14. Pursuant to Section 128(1)(a)(i) and (iii) of the Act, the Waikato Regional Council may review Conditions 40 to 45 in Schedule One of this consent following any change made to the Trust Deed referred to in Condition 40 of Schedule One.

Dated at Hamilton this **x** day of **Month/Year**