[FTAA-2512-1153] CENTRAL AND SOUTHERN BLOCK MINING PROJECT
DECISION APPENDIX 1: DRAFT RESOURCE CONSENT CONDITIONS

Resource Consent Certificate

Resource Consent Number: AUTH142035.01.01 (Land Use)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Land Use Consent

Consent subtype: Land Disturbance

Activity authorised: Undertake iron sand mining operations and associated land disturbance activities including (but not limited to) construction of dredge ponds, stormwater ponds, water supply/storage ponds, access roads, stockpiles, wetlands and other features for environmental offsetting, restoration and/or rehabilitation purposes, and ancillary buildings.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:605-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to compliance with the General Conditions in Schedule 1.

2. The Consent Holder shall prepare a map (or maps) of the Central and Southern Blocks (Consent Area) at a suitable scale showing:

    (a) the boundary of the Consent Area (i.e. the totality of the Central Block and the Southern Block);
    (b) the location of, and a setback of 100 m from, Mean High Water Springs (MHWS) at the commencement of the Consent;
    (c) the location of, and a setback of 30 m from, any perennial waterbodies within and adjacent to the Consent Area;
    (d) the location of, and a setback of 30m from, all retained natural inland wetlands within the Consent Area;
    (e) the location of buildings, structures, stormwater / water supply ponds and other mine infrastructure existing at the commencement date of this consent within 100m of MHWS or 30m of perennial waterbodies and identified natural inland wetlands;
    (f) the location of, and a setback of 20m from, all urupaa and other waahi tapu sites known to the Consent Holder at commencement of this consent;
    (g) waste material stockpiles; and
    (h) HAIL activities identified in Appendix P to the Substantive Application Report.

3. The map (or maps) required by Condition 2 shall be supported by a statement prepared by a suitably qualified and experienced person in ecology (SQEP - ecology) confirming the accuracy of the mapping of the perennial waterbodies and natural inland wetlands, and the setbacks from those features specified in Condition 2(c) and 2(d).

4. The map (or maps) required by Condition 2 shall be submitted to Waikato Regional Council for review and approval by the Waikato Regional Council, acting in a technical certification capacity within 20 working days of the commencement date of this consent. The certified map (or maps) shall be included in the Consent Holder's Annual Works Plan.

5. Mining operations shall not be undertaken within any of the setbacks shown on the certified map (or maps) required by conditions 2(b) to 2(d) and 2(f) of this consent. For the purposes of this consent, "mining operations" means the extraction of sand and any equipment and structures necessary to facilitate sand extraction, and the deposition of tailings. It does not include:

    (a) buildings, structures, stormwater/water supply ponds and other mine infrastructure existing at the commencement date of the consents including within 100 m of Mean High Water Springs or 30 m of perennial waterbodies and natural inland wetlands, and any activities required for the maintenance of those items;
    (b) any activity (including vehicle movements) necessary for the purposes of stabilisation and maintenance of sand and tailings stockpiles, provided that these activities shall not be carried out within the setbacks specified in conditions 2(b) to 2(d) and 2(f);
    (c) any activity (including but not limited to earthworks, vegetation planting/maintenance/ clearance, fencing, pest animal control, and vehicle movements) associated with ecological offsetting, restoration and/or rehabilitation; and/or
    (d) any activity necessary to address coastal erosion or inundation.

6. No mining operations nor the activities listed in condition 5(a)-(b) above can be undertaken within any of the urupaa or waahi tapu sites shown on the certified map (or maps) required by Condition 2 of this consent.

7. The Consent Holder shall establish and maintain a planted buffer area within 30m of the natural inland wetlands and perennial waterbodies in the area identified in the certified map (or maps) required by Condition 2(c) and 2(d) of this consent, by undertaking infill planting, maintenance, and an animal pest and weed control programme within the planted buffer area. The details of this programme shall be set out in a Natural Inland Wetland and Buffer Management Plan appended to the Consent Holder's Environmental Management Plan.

8. Mining in proximity to site boundaries, wetlands, water bodies, urupaa and waahi tapu sites shall observe the following maximum slope angles:

    (a) 33° for slopes developed primarily with Te Ake Ake sands; and
    (b) 30° for slopes developed primarily with Mitiwai sands.

9. The Consent Holder shall prepare an annual, independent review of pit slope performance in proximity to property boundaries, wetlands, water bodies and cultural/archaeological reserves and provide the results in the Annual Monitoring Report to Waikato Regional Council. In the event of poor pit slope performance, the Consent Holder shall implement contingency options that may include:

    (a) gentler overall slope angle
    (b) bench mid-slope; or
    (c) earlier placement of waste sand to buttress the affected area.

10. Stockpiling of waste materials shall only be undertaken in designated areas identified in Condition 2(g), with windbreaks, to avoid partial or full covering by sand over the term of consent. Hazardous substances (e.g., fuel, oil, lubricants) are to be removed from waste materials prior to stockpiling.

11. The Consent Holder is to maintain a waste materials site register (what, where and when stored) that is to be included in the Annual Works Plan. The Consent Holder shall remove all stockpiled waste materials from site prior to site closure.

12. There is to be no disturbance to any HAIL activity areas identified in Condition 2(h) unless a site investigation is prepared by a suitable qualified and experienced person (SQEP) in accordance with the requirements of the Resource Management (National Environmental Standard for Assessing and Managing Contaminated Soil to Protect Human Health) Regulations 2011, or any update to that regulation.

Dust Effects Management

13. The Consent Holder shall implement measures to manage dust to ensure that all activities in the Consent Area comply with the following:

    (a) there shall be no discharge of contaminants beyond the boundary of the Consent Area that has adverse effects on human health, or the health of flora and fauna.
    (b) there shall be no discharge of particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the Consent Area.
    (c) the discharge shall not significantly impair visibility beyond the boundary of the Consent Area.

14. For the proposed mining areas the Consent Holder must provide a Mining Operations Stabilisation and Rehabilitation Plan (MOSRP) prepared by a SQEP in air quality. The purpose of the MOSRP is to:

(a) stabilise exposed areas, where no works are being undertaken and where rehabilitation is not proposed, to minimise dust discharges to air as far as practicable and as soon as operationally practicable but at the latest within 6 months; and
(b) rehabilitate remaining areas, where no works are being undertaken, to minimise dust discharges to air as far as practicable and as soon as operationally practicable but at the latest within 12 months.

Stabilisation measures may include the covering of areas with geotextiles, applying chemical suppressants (such as polymers), the planting of kikuyu, marram grass or native grass species or other measures to reduce the amount of exposed surface areas producing dust.

15. The Consent Holder must undertake site stabilisation and rehabilitation in accordance with the MOSRP.

16. The MOSRP is to be updated annually and included in the Annual Works Plan. The MOSRP shall:

(a) detail the areas proposed for stabilisation and rehabilitation within the proposed mining areas for the next 12 months; and
(b) include the methods and timeframes to achieve the requirements of Conditions 14(a) and 14(b) above; and
(c) report on progress for the previous 12 months.

Advice note: The requirements of the MOSRP have been repeated in AUTH142035.08.01 to ensure that all "mining operations" are subject to the requirements.

Priority Stabilisation Area

17. The Consent Holder shall ensure that within the 200m Priority Stabilisation Area shown in green hatch in Figure 1 below:

(a) extraction of sand is completed within 12 months of the date of commencement of this consent; and
(b) stabilisation of any exposed surfaces shall be completed within 3 months of mining operations being completed. Stabilisation in this area involves compaction and surface stabilisation so that exposed surfaces minimise dust discharges to air as far as practicable.

18. A section of ridgeline along the northern boundary of the Central Block shall, where practicable, be retained or reinstated to provide screening and wind shelter between mining activities and the Wetini Homestead (R4). Where this is not practicable, alternative measures such as a bund or vegetation shall be provided to achieve a similar outcome .

19. Notwithstanding the requirements of Condition 14, the consent holder shall ensure that, within the Central Block mining areas referenced as 3, 4, 6 and 7 on Figure 2 below, mining operations (including extraction of sand, tailings deposition, contouring and stabilisation, and final rehabilitation) shall be completed by the following dates:

(a) Area 3 : 31 December 2032
(b) Area 4 : 30 May 2034
(c) Area 6 : December 2028
(d) Area 7 : December 2028

Final rehabilitation does not need to be concluded in any area for mining operations to be initiated or continue in any other mining area on the site.

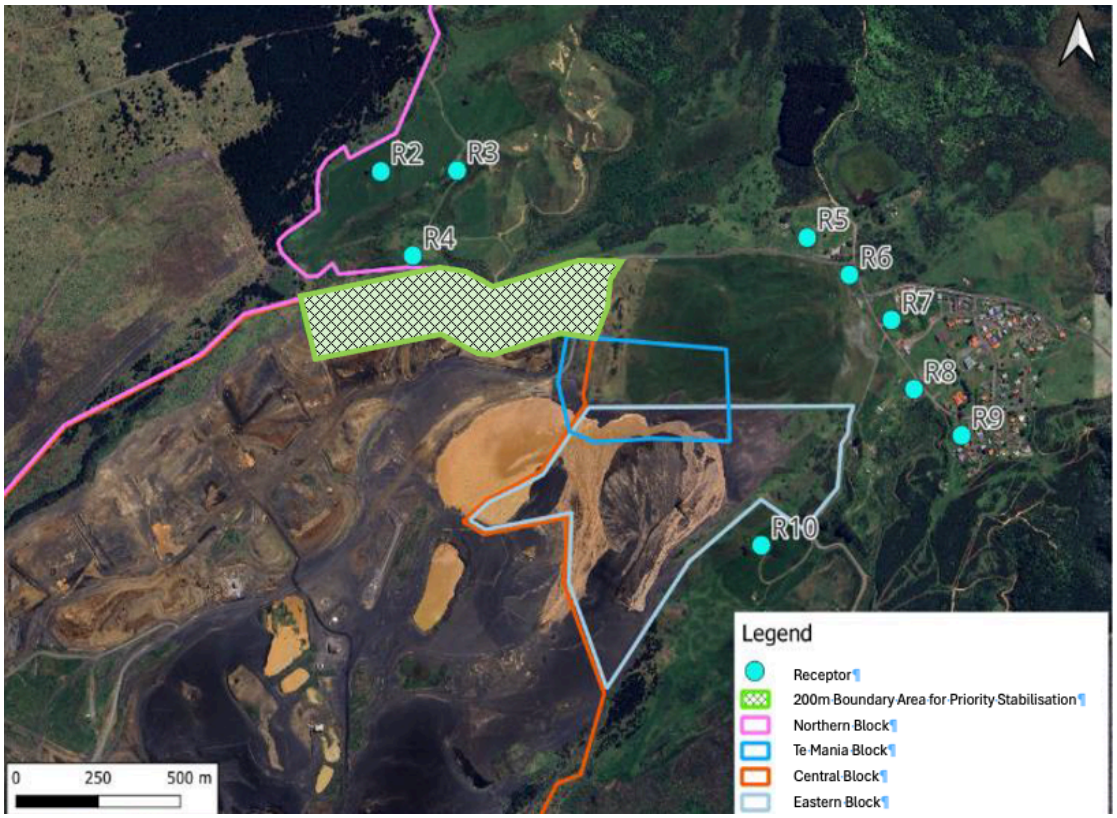


Figure 1 Priority Stabilisation Area

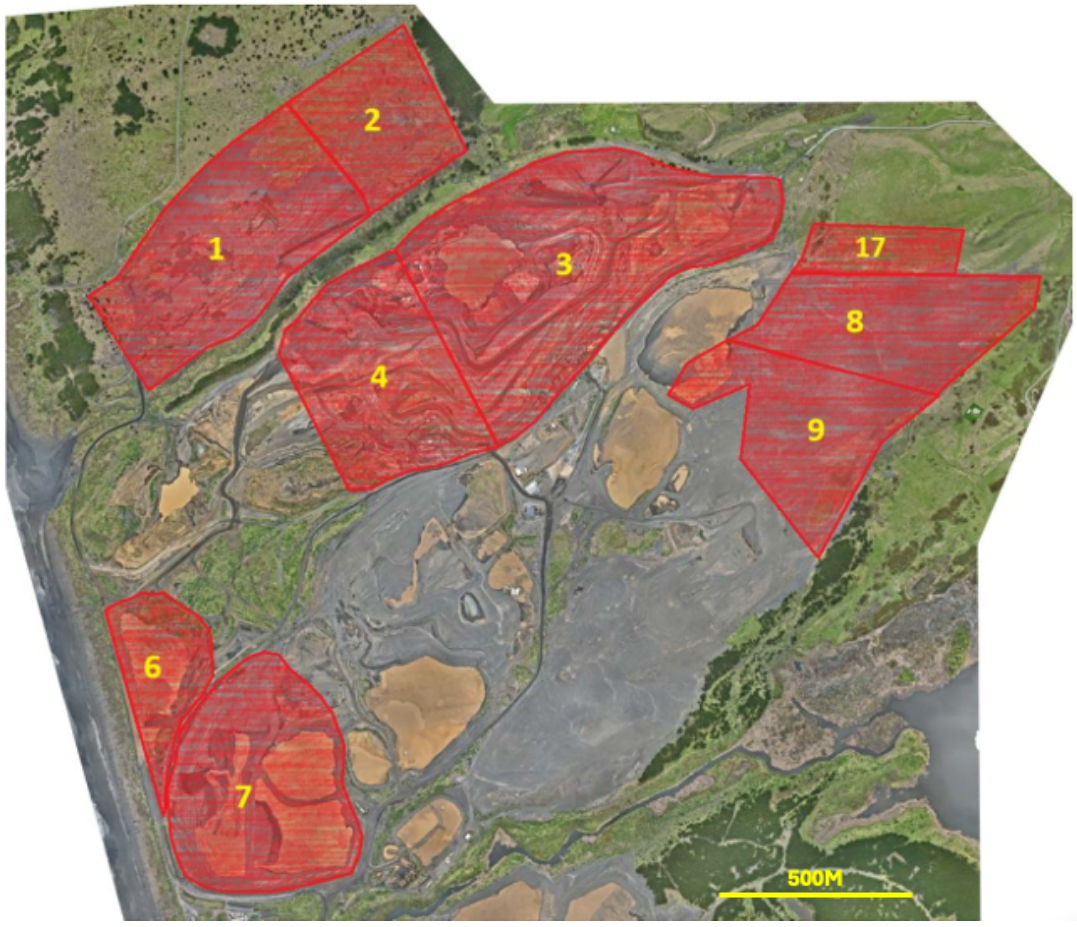


Figure 2 – Central Block Mining Areas

20. Following the completion of mining operations in Areas 3, 4, 6 and 7 by the dates set out in Condition 19 above, the consent holder shall not undertake further mining of sand (apart from work necessary to maintain mine access and for maintenance of rehabilitation including but not limited to earthworks, vegetation planting/maintenance/clearance, fencing, pest animal control, and associated vehicle movements) for the duration of this consent.

Air Quality Monitoring

21. The Consent Holder must continuously monitor dust discharges to air using at least four (4) reference PM_{10} monitors, including:

    (a) one located to the west of the site; and
    (b) one located in proximity to Te Kura o Taharoa;
    (c) one located in proximity to Aaruka Marae; and
    (d) one located in proximity to a residence near the northeast boundary of the Central Block.

22. The reference PM_{10} monitors shall use an Approved Method compliant with Schedule 2 of the National Environmental Standards for Air Quality (NESAQ), or an equivalent method as demonstrated through compliance with AS 3580.9.17:2018 or EN 12341:2014, or any updated or superseding standard that ensures equivalent data quality.

23. The Consent Holder shall continuously monitor meteorological conditions for the purpose of dust management and to inform PM_{10} monitoring reports required by Conditions 30 - 31. The data shall include wind speed and wind direction at all reference PM_{10} monitoring locations and the following parameters at the Kura and western reference PM_{10} monitoring site:

    (a) temperature;
    (b) relative humidity; and
    (c) rainfall.

24. All reference PM_{10} and meteorological monitors are to be calibrated, serviced and maintained in good operational order with supporting infrastructure (i.e., weather protection, backup power, relative humidity and temperature control) to ensure a minimum of 75% validated data, with a reporting target of 90% valid data. All reference PM_{10} and meteorological monitors are to be located, as far as practicable, in accordance with AS/NZS 3580.1.1:2016 *Methods for sampling and analysis of ambient air: Guide to siting air monitoring equipment*.

25. The reference PM_{10} and meteorological monitors required by Condition 21 shall be installed and operational within 6 months of the commencement of this consent.

26. The Consent Holder shall also employ at least two (2) non-reference PM_{10} monitors to supplement the PM_{10} monitoring network for site dust management purposes. All non-reference PM_{10} monitors shall be of the same make, model and configuration with one non-reference PM_{10} monitor of that make, model and configuration permanently co-located with the reference PM_{10} monitor at Te Kura o Taharoa. Data from the co-located monitors shall be used to establish and periodically review an appropriate site-specific correction factor (k-factor) for application to the supplementary, non-reference PM_{10} monitoring.

27. The non-reference PM_{10} monitors are to be calibrated, serviced and maintained in good operational order with supporting infrastructure (i.e., weather protection, backup power, relative humidity and temperature control) to ensure a minimum of 75% validated data, with a reporting target of 90% valid data. All non-reference PM_{10} monitors are to be located, as far as practicable, in accordance with AS/NZS

3580.1.1:2016 *Methods for sampling and analysis of ambient air: Guide to siting air monitoring equipment*.

28. The non-reference PM_{10} dust monitors required by Condition 26 shall be installed and operational within 4 months of the date of certification by Waikato Regional Council of the EMP for the site.

Air Quality Reporting

29. Current (i.e. real-time) and previous (i.e. historical from date of commencement of monitoring) reference PM_{10} and meteorological monitoring data are to be published online, with suitable caveats for current data until such time as the data are quality assured. PM_{10} concentrations from reference monitors are to be reported as rolling (current) and calendar (previous) daily and annual time average concentrations for comparison with the reporting limits in Condition 30(a) and (b).

30. Reference PM_{10} and meteorological monitoring data are to be quality assured by a SQEP – air quality and provided in an annual PM_{10} monitoring report to Waikato Regional Council as part of the Annual Monitoring Report. Reporting shall compare daily and annual PM_{10} concentrations at each reference PM_{10} monitoring location with the following PM_{10} reporting limits:

    (a) the national environmental standard of 50 $\mu g/m^3$ as a 24-hour average with one permitted exceedance in any 12-month period;
    (b) the WHO global guideline of 15 $\mu g/m^3$ as an annual average with no permitted exceedances; and
    (c) estimated concentrations of PM_{10} from background or natural sources (as informed by daily and annual meteorological and PM_{10} monitoring at all reference PM_{10} monitoring locations).

31. The Consent Holder shall use the current (i.e. real-time) non-reference PM_{10} and meteorological data to inform onsite dust management in accordance with the dust management chapter of the EMP (required by Condition 18 of the General Conditions in Schedule One) through comparison with the following site PM_{10} trigger limits:

    (a) 55 $\mu g/m^3$ PM_{10} as 1-hr average (immediate investigation & dust mitigation measures)
    (b) 65 $\mu g/m^3$ PM_{10} as 1-hr average (stop works / dust generating activities)

32. Non-reference PM_{10} data are to be quality assured by a SQEP – air quality and provided in an annual PM_{10} monitoring report to Waikato Regional Council as part of the Annual Monitoring Report.

    Advice notes

1. *The purpose of the PM_{10} reference monitoring and reporting is to demonstrate that discharges to air from the site are not having significant adverse effects offsite through compliance with the PM_{10} reporting limits in Condition 30.*

2. *The purpose of the PM_{10} non-reference monitoring and reporting is to inform dust management of emissions from the site and comply with the Site PM_{10} trigger limits in Condition 31 (which will also assist with compliance with the reporting limits in Condition 30).*

Contingency PM_{10} Emission Reduction Action Plan

33. If the daily or annual PM_{10} reporting limits set out in Condition 30 are exceeded at either Te Kura o Taharoa or residential or Aaruka marae reference PM_{10} monitoring locations, the Consent Holder shall prepare a PM_{10} Emission Reduction Action Plan for certification by Waikato Regional Council. The PM_{10} Emission Reduction Action Plan shall identify specific measures to reduce overall PM_{10} emissions from the site and shall, as a minimum:

(a) identify the principal sources and activities contributing to PM_{10} emissions from the site;
(b) identify additional stabilisation and rehabilitation measures to reduce the extent of exposed surfaces capable of generating dust;
(c) specify quantified stabilisation and rehabilitation targets, including the area of land, in hectares, to be stabilised or rehabilitated and the dates by which those works will be completed;
(d) identify any additional changes to mining staging, exposed-area management, haul roads, stockpiles, dust suppression or other operational practices required to reduce PM_{10} emissions;
(e) specify timeframes for implementation of each action; and
(f) specify how the effectiveness of the actions will be monitored and reviewed.

34. The PM_{10} Emission Reduction Action Plan shall be prepared by a suitably qualified and experienced practitioner in air quality (SQEP – air) and submitted to Waikato Regional Council for certification within 60 days of the exceedance being measured. The Consent Holder shall implement the certified PM_{10} Emission Reduction Action Plan in accordance with the specified timeframes.

Noise

35. When mining the ridge on the northeastern boundary of Central Block all measures recommended in Appendix W of the application to achieve compliance with the Waitomo District Plan noise limits as applicable to the Site, are to apply at all times including without limitation:

(a) Mining shall only occur between 7 am to 7 pm until operations progress below the ridge line and out of sight of the nearest houses;
(b) Noise-limiting (modified) mining methodology is to be employed (e.g. 15 – 20 tonne excavator operating on the ridge in combination with a rope-trawl bucket crane positioned behind the ridgeline to benefit from terrain shielding);
(c) No bulldozers to be used on the ridge;
(d) Simultaneous use of heavy equipment is to be minimised;
(e) Tonal reversing alarms are to be avoided (using alternatives such as flashing lights, broadband alarms or rear sensors); and
(f) Dry mining units are to be positioned at least 400 metres from the boundary when there is line of sight and 200 metres when out of sight.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.*

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 Consent Area by Waikato Regional Council officers or agents, liaison with the consent holder, responding to complaints or enquiries relating to the Consent Area, and review and assessment of compliance with the conditions of consents.*

5. *Note that pursuant to s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

8. *The General Conditions include conditions which specifically address the actual and/or potential environmental effects associated with the discharges of dust and the management and monitoring of discharges to air, forming part of the Consent Holder's Environmental Management Plan.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.02.01 (Wainui Dam)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Water Permit

Consent subtype: Dam

Activity authorised: To dam and divert the Wainui Stream for the purpose of creating a water supply reservoir for iron sand mining operations on the Taharoa C Block and any land legally authorised to be used for iron sand mining operations.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:598-355

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

   Advice note: The General Conditions include conditions which specifically address the actual and/or potential environmental effects associated with the damming and diversion of the Wainui Stream and the operation and monitoring of the existing fish pass as part of a Lake Level and Water Management Plan, forming part of the Environmental Management Plan.

2. The crest height of the dam shall not exceed 11.58 mRL above mean sea level.

3. The Consent Holder shall monitor and record the water levels of the Wainui Stream at the water intake structure immediately upstream of the dam on the Wainui Stream on a daily basis at or about NZTM 1749676.36 5773786.62 and provide the results in the Annual Monitoring Report to Waikato Regional Council and make the results available in accordance with Condition 39 of Schedule 1 – General Conditions. This system must have a reliable calibration and must be maintained to an accuracy of +/-5 percent. Within 3 months of the commencement of this consent, the consent holder must provide Waikato Regional Council with evidence from a SQEP showing that this system is verified as accurate to +/- 5 percent.

4. The Consent Holder must continuously monitor the level of the Wainui Stream immediately downstream of the dam and ensure there is a residual flow in the Wainui Stream immediately downstream of the dam structure of no less than 10 L/s as measured through the outlet weir in the dam structure. Maintenance of the minimum flow shall require augmentation when the water level immediately behind the dam is below 9.45 mRL. The results of this monitoring shall be included in the Annual Monitoring Report to Waikato Regional Council. Augmentation must be undertaken with fresh water with an electrical conductivity not exceeding 1,000 µS/cm and avoid using waters sourced from outside the Wainui Stream catchment if practicable.

5. If the minimum residual flow referred to in Condition 4 above persists for a period exceeding 14 calendar days, the Consent Holder shall forthwith engage a SQEP – ecology to monitor and report on any adverse effects on instream ecological values in the Wainui Stream downstream of the dam, and recommend measures to be implemented to manage any identified adverse effects. The instream monitoring report shall be provided to the Consent Holder as soon as it is completed and the Waikato Regional Council within 10 working days of completion.

6. If the instream monitoring report prepared in accordance with Condition 5 concludes that adverse effects (other than those caused by natural seasonal conditions) are occurring in the Wainui Stream downstream of the dam, the Consent Holder shall, within 5 working days of the report required by Condition 5 being received, implement the measures recommended in the report to address those effects. The Consent Holder shall notify the Waikato Regional Council of what measures have been undertaken within seven working days of the measures being implemented. The measures shall continue to be undertaken until either the minimum residual flow in the Wainui Stream downstream of the dam is exceeded for a continuous 7 calendar day period, or a SQEP – ecology confirms that the measures can be ceased.

7. The Consent Holder must ensure the structural integrity of and maintain the dam and associated structures and complete any erosion control works that become necessary to preserve the integrity and stability of the river channel.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.*

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.03.01 (Wainui Fish Pass)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

hereinafter referred to as the Consent Holder)

Consent type: Water Permit

Consent subtype: Diversion

Activity authorised: Occupy the bed of the Wainui Stream via a rock and sheet pile weir, fish pass intake and outlet structures and the associated diversion of water through a fish pass channel located adjacent to the Wainui Stream.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:597-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

   Advice note: The General Conditions include conditions which specifically address the actual and/or potential environmental effects associated with the damming and diversion of the Wainui Stream and the operation and monitoring of the existing fish pass as part of an Ecological Management Plan, Lake Level and Water Management Plan and Wainui Stream Enhancement Plan, each forming part of the Environmental Management Plan.

Fish Pass Operation

2. The Consent Holder shall ensure that:

   (a) a fortnightly inspection is undertaken of the entire length of the fish pass, and of the dam overflow chamber. If the inspection should identify the need for any cleaning, maintenance or repairs, the consent holder shall ensure that the necessary works are undertaken as soon as possible.
   (b) the downstream entry to the fish pass is submerged by at least 100 millimetres at all times.
   (c) the flow velocity in the fish pass does not exceed 0.3 metres per second.
   (d) the pool at the entrance of the fish pass and access to the main channel of the Wainui Stream is kept free of aquatic weeds during the main fish migratory period (July – February).
   (e) a pool depth at the base of the dam overflow chamber of at least 0.5 metres is maintained to provide for the downstream migration of fish species.

3. The Consent Holder shall maintain and if required modify the fish pass to ensure its effectiveness at all times, including any modifications to the fish pass required as a result of compliance with Condition 2 and/or Condition 4 of this consent.

Fish Pass Monitoring

4. The Consent Holder shall develop and implement a monitoring programme to confirm the ongoing effectiveness of the fish pass at providing passage for the juveniles of the following fish species: inanga, smelt, long-finned eel, short-finned eel, and juvenile and adult grey mullet. This programme shall be developed in consultation with the Department of Conservation, The Proprietors of Taharoa C Block Incorporated, Taharoa Lake Trustees, Te Ruunanga o Ngaati Mahuta ki te Hauaauru, Te Kooraha Marae, Aaruka Marae, and the Waikato Regional Council, and shall be lodged with the Waikato Regional Council within 6 months of the commencement of this consent for written approval by the Waikato Regional Council acting in a technical certification capacity.

   The monitoring programme shall confirm:

   (a) The likely migration periods for each of the species listed and use this as the basis for determining the timing and frequency of monitoring required.
   (b) How the number and species of fish passing through the fish pass are to be monitored during the migration times for each of the species listed above.
   (c) A process for monitoring the frequency of non-target fish utilising the fish pass.
   (d) A method for determining and demonstrating the effectiveness of the fish pass.
   (e) Reporting frequency and mechanisms, including any recommendations for improvement of the fish pass or review of the monitoring programme.
   (f) Compliance with minimum flow requirements.

5. Any changes to the monitoring programme shall be provided to the Waikato Regional Council for written approval acting in a technical certification capacity.

6. The methodology for the monitoring programme and subsequent monitoring shall be recorded in the Lake Level and Water Management Plan chapter of an Environmental Management Plan.

Residual Flow in the fish pass

7. The Consent Holder must continuously monitor the level of the Wainui Stream immediately behind the dam and ensure there is a residual flow in the fish pass of 24 L/s. If the water level immediately behind the dam is below 9.3 mRL, the Consent Holder must initiate pumping and augmentation into the fish pass to maintain a minimum of 24 L/s. Augmentation must be undertaken with fresh water with an electrical conductivity not exceeding 1,000 µS/cm and must avoid using waters sourced from outside the Wainui Stream catchment if practicable.

The Wainui Stream

8. The Consent Holder shall in consultation with the Department of Conservation, The Proprietors of Taharoa C Block Incorporated, Taharoa Lake Trustees, Te Ruunanga o Ngaati Mahuta ki te Hauaauru, Te Kooraha Marae, Aaruka Marae and Waikato Regional Council, review and update the existing Wainui Stream Enhancement Plan for the purpose of improving the indigenous biodiversity values associated with the lower Wainui Stream (below the dam) including the management of identified inanga spawning areas.

9. In considering the purpose of the Wainui Stream Enhancement Plan, its development or review, details shall include:

    (a) the nature of any supplementary/and or replacement planting to be undertaken (timing, species, source of planting material, extent and location).
    (b) the nature of any weed and/or pest control considered appropriate (timing, extent and location).
    (c) any consultation undertaken in the development of the management plan.
    (d) procedures for implementing, monitoring and review of the management plan.

10. The reviewed and updated Wainui Stream Enhancement Plan shall be lodged with the Waikato Regional Council for approval, acting in a technical certification capacity, within 6 months of the commencement of this consent. Any changes to the plan shall be confirmed in writing by the Consent Holder following consultation with the Waikato Regional Council.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.05.01 (Wainui Water Take)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Water Permit

Consent subtype: Surface Water Take

Activity authorised: Take water from a water supply reservoir created by the damming of the Wainui Stream, for the purpose of ship loading and iron sand mining operations (including the operation of the on-site plant nursery and for establishment and maintenance of ecological buffer and offset planting wetlands and other features for environmental offsetting, restoration and/or rehabilitation purposes, including augmentation of flows and water levels in perennial waterbodies and all wetlands).

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:598-355

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

   Advice note: The General Conditions include conditions which specifically address the actual and/or potential environmental effects associated with the abstraction of water from the Wainui Stream and the operation and monitoring of the water take as part of Natural Wetland and Buffer Management Plan and the Lake Level and Water Management Plan, each forming part of the Environmental Management Plan.

2. Water taken pursuant to this consent must only be used for: operating an iron sand mine and undertaking all associated activities on Taharoa C Block and/or any land legally authorised to be used by the Consent Holder for iron sand mining ("operating use") and/or loading ironsand onto ships ("loading use"). Water taken can be stored for these purposes.

3. For water taken from the reservoir in the Wainui Stream, for operating use, the daily volume must not exceed 27,200 cubic metres as a 28 day rolling average, subject to the restriction imposed by condition 4 of this consent.

4. For water taken from the reservoir in the Wainui Stream, for loading use, the:

   (a) daily volume of water taken must not exceed 75,000 cubic metres;
   (b) annual volume of water taken must not exceed 3,000,000 cubic metres.

5. A system must measure on a continuous basis:

   (a) take volume;
   (b) operating use volume;
   (c) ship loading use volume.

   This system must have a reliable calibration and must be maintained to an accuracy of +/- 5 percent. Within 3 months of the commencement of this consent, the Consent Holder must provide Waikato Regional Council with evidence from a SQEP showing that this system is verified as accurate to +/- 5 percent.

6. The Consent Holder must engage a SQEP to undertake additional verification of the accuracy of the system required by Condition 5:

   (a) at the written request of the Waikato Regional Council;
   (b) at a frequency no less than five yearly from the date of the first calibration required by Condition 5;
   (c) to the satisfaction of the Waikato Regional Council.

   Evidence documenting each additional verification must be forwarded to the Waikato Regional Council within one month of the verification being completed.

7. With the exception of the minimum volume of water required to augment stream or fish pass flow and wetland health as required by the conditions of this consent, water must not be taken when the Lake Taharoa water level at or about NZTM 1751411.597 5774358.648 is less than 9.0 mRL as measured by the Local Datum Survey Marker.

8. The Consent Holder must engage a SQEP – ecology to undertake monitoring of the extent and health of the wetlands on the margins of Lake Taharoa adjoining the Taharoa C Block within the months of February and March:

(a) within the first year following the commencement of this consent (baseline monitoring); then
(b) annually for the first 3 years following the baseline monitoring; then, if adverse effects have not been detected);
(c) every 2 years for the next 6 years; then, if adverse effects have not been detected; and
(d) every 5 years thereafter for the duration of the consent.

The monitoring required by this condition must include appropriate indicator and taonga species set out in Appendix 2 of the Ngaati Mahuta ki te Hauauuru Environmental Management Plan, and the outcomes of monitoring shall be provided to Waikato Regional Council as part of the Annual Monitoring Report .

9. The methodology for baseline and subsequent monitoring shall be recorded in the Natural Inland Wetland and Buffer Management Plan in the Environmental Management Plan.

10. If the level of Lake Taharoa drops below 9.6 mRL for a cumulative period of 30 days over any 60-day period, as measured by the Local Datum Survey Marker, the Consent Holder shall:

(a) implement management responses to reduce as far as practicable the water being taken for the purposes of this consent. The management responses could comprise (but are not limited to) maximising on-site water storage and water re-use, pausing production during ship loading, and reviewing short and long-term weather forecasts to inform reduced water take decisions.
(b) within 10 working days of becoming aware that the level of Lake Taharoa has dropped below 9.6 mRL for a cumulative period of 30 days over any 60 day period, engage a SQEP – ecology to monitor and report on the extent and health of the raupo and flax wetlands on the margins of Lake Taharoa adjoining the Taharoa C Block and provide recommendations on measures to be implemented to manage any identified adverse effects. If the wetland monitoring report concludes that adverse effects (other than those caused by natural seasonal conditions) are occurring on the wetlands on the margins of Lake Taharoa adjoining the Taharoa C Block, the Consent Holder shall, within 5 working days of being advised of the adverse effects, implement measures to address the identified adverse effects based on the recommendations set out in the ecologist's report. The wetland monitoring report shall be provided to the Consent Holder as soon as it is completed and the Waikato Regional Council within 10 working days of completion of the wetland monitoring.
(c) if the wetland monitoring report prepared in accordance with Condition 10(b) concludes that adverse effects (other than those caused by natural seasonal conditions) are occurring on the wetlands on the margins of Lake Taharoa adjoining the Taharoa C Block, the Consent Holder shall review and update the Lake Level and Water Management Plan to reflect measures that have been implemented to address the identified adverse effects and provide a copy to Waikato Regional Council for certification within 30 working days.

11. A system must measure on a continuous basis the Lake Taharoa water level at or about NZTM 1751411.597 5774358.648. This system must have a reliable calibration and must be maintained to an accuracy of +/- 5 millimetres. Within 3 months of the commencement of this consent, the Consent Holder must provide Waikato Regional Council with evidence from a SQEP showing that this system is verified as accurate to +/- 5 millimetres.

12. In relation to the system required by Condition 11 and during every August, the Consent Holder must provide Waikato Regional Council with a report containing:

(a) evidence showing that an accuracy of +/- 5 millimetres was maintained over the immediately preceding year ending 30 June;
(b) information setting out how the Consent Holder will maintain an accuracy of +/- 5 millimetres during the current year ending 30 June.

13. Water must not be taken when taking water will cause or contribute to a breach of the residual flow required by Condition 4 of consent AUTH142035.02.01.

14. The Consent Holder must telemeter – via a telemetry system that is compatible with Waikato Regional Council telemetry system standards and data protocols – :

(a) 15 minute values of take volume;
(b) daily values of operating use volume;
(c) daily values of loading use volume;
(d) 15 minute values of Lake Taharoa water level at or about NZTM 1751411.597/ 5774358.648.

This data must be reported at least once daily to the Waikato Regional Council via the telemetry system and the reporting must comply with the following requirements.

- Data a), b) and c) must be in units of cubic metres to at least one decimal place;
- Data d) must be in units of metres RL (mRL) Local Datum Survey Marker to at least three decimal places;
- For data a) and d) there must be 96 values per parameter per daily report.
- For data b) and c) there must be one value per parameter per daily report.
- When there is no water being taken the data must specify the take volume as zero.
- When there is no operating use the data must specify the operating use volume as zero.
- When there is no loading use the data must specify the loading use volume as zero.

15. For water taken from the reservoir in the Wainui Stream, within 24 months of the report required by condition 16 being certified and thereafter, the intake must be screened with a mesh size not exceeding 1.5 millimetre in diameter and must be constructed so that:

(a) placement of the intake does not cause fish to be entrained; and
(b) that the migration habits and passage of fish are not compromised or adversely affected by the placement of the intake.

16. Within 12 months of the commencement of this consent, the Consent Holder must submit to the Council for certification, plans for the upgrade of the existing water intake structure to demonstrate compliance with the requirements of condition 15.

17. For water taken from the reservoir in the Wainui Stream, the Consent Holder must ensure that the intake velocity does not exceed 0.3 metres per second at all times. The intake must be cleaned and maintained to ensure that the intake velocity is maintained at 0.3 metres per second or less. If requested by the Waikato Regional Council, the Consent Holder must provide information to demonstrate that the intake velocity does not exceed 0.3 metres per second.

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 to the Waikato Regional Council, on the same conditions and for the same use as originally

granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.06.01 (Stormwater Discharge to Wainui)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Discharge Permit

Consent subtype: Discharge to Water

Activity authorised: Incidental discharge of settled stormwater and washdown water into the Wainui Stream from the area containing the administration building, stores compound and workshops.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:596-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

2. There shall be no discharge of contaminants (oil, grease, fuel, or detergents) into the Wainui Stream that results in a conspicuous oil or grease film, scum, foam or a conspicuous change in colour of visual clarity after reasonable mixing, as a result of the exercise of this resource consent.

3. In the event of any breach of the conditions of this consent and/or of any accidental discharge, plant breakdown, or other circumstances which are likely to result in the limits of this resource consent being exceeded the Consent Holder shall notify the Waikato Regional Council immediately or at least within 24 hours of the breach detected. Within 7 days of any breach the Consent Holder shall provide written notification to the Waikato Regional Council which explains the cause of the breach, steps which were taken to remedy the breach and steps which will be taken to prevent any future occurrence of the situation.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

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 s332 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.

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent Certificate

Resource Consent Number: AUTH142035.07.01 (Discharge to Land – Mine Water)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Discharge Permit

Consent subtype: Discharge to Land

Activity authorised: Discharge process water and other water potentially containing contaminants into the ground as a result of iron sand mining operations on the Taharoa C Block.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:596-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Consent lapse: This consent will lapse 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

2. All point source discharges of process water associated with iron sand mining operations, such as but not limited to tailings placement and Ironsand processing shall be directed into settling ponds/soakage areas. All other non-point source discharges of process water and other water that are incidental to ironsand mining operations, including leakages from the slurry and water supply network and operation of mining equipment and plant, and discharges related rehabilitation works, are authorised to be discharged directly into the ground.

3. Overland flow from the discharges in Condition 2, or groundwater seepage from ponds shall not discharge beyond the boundary of the consent area.

4. Settling ponds shall be desludged whenever required to maintain at least 80 percent of the pond volume available for holding process water, and in particular within one month's notice in writing from the Waikato Regional Council to do so.

5. The Consent Holder shall monitor and keep records of the capacity of each pond and the times at which desludging has occurred and include these in the Annual Monitoring Report to the Waikato Regional Council.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

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 s332 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.

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note*

that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.

Resource Consent
Certificate

Resource Consent Number: AUTH142035.08.01 (Discharge to Land – Mine Overburden & Tailings)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

hereinafter referred to as the Consent Holder)

Consent type: Discharge Permit

Consent subtype: Discharge to Land

Activity authorised: Discharge mine overburden and tailings from the Taharoa C Block and any land legally authorised to be used for iron sand mining operations onto land for the purpose of rehabilitating mined areas.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16: 605-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

Dust Effects Management

2. The Consent Holder shall implement measures to manage dust to ensure that all activities on site comply with the following:

    (a) There shall be no discharge of contaminants beyond the boundary of the consent area that has adverse effects on human health, or the health of flora and fauna.
    (b) There shall be no discharge of particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the consent area.
    (c) The discharge shall not significantly impair visibility beyond the boundary of the consent area.

3. For the proposed overburden and tailings areas the Consent Holder must provide a Mining Operations Stabilisation and Rehabilitation Plan (MOSRP) prepared by a SQEP in air quality. The purpose of the MOSRP is to:

    (a) stabilise overburden and tailings areas after they are formed and dewatered, to minimise dust discharges to air as far as practicable and as soon as operationally practicable but at the latest within 6 months; and
    (b) rehabilitate overburden and tailings areas, after overburden and tailing deposition has ceased, to minimise dust discharges to air as far as practicable and as soon as operationally practicable but at the latest within 12 months.

    Stabilisation measures may include the covering of areas with geotextiles, applying chemical suppressants (such as polymers), the planting of kikuyu, marram grass or native grass species or other measures to reduce the amount of exposed surface areas producing dust.

4. The Consent Holder must undertake site stabilisation and rehabilitation in accordance with the MOSRP.

5. The MOSRP is to be updated annually and included in the Annual Works Plan. The MOSRP shall:

    (a) detail the areas proposed for stabilisation and rehabilitation within the proposed mining areas for the next 12 months; and
    (b) include the methods and timeframes to achieve the requirements of Conditions 3(a) and 3(b) above; and
    (c) report on progress for the previous 12 months.

6. The exercise of this consent shall not result in overland flow or groundwater seepage being discharged beyond the boundary of the consent area.

7. The exercise of this consent shall not result in land slippage, erosion or destabilization of land in properties beyond the boundary of the consent area.

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). The transfer of water, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.*

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.09.01 (Coastal Permit - Pipelines)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Coastal Permit

Consent subtype: Structure - Occupation, Use and Maintenance

Activity authorised: The occupation of the Coastal Marine Area by two existing pipelines for the purpose of ship loading and the discharge of stormwater and process water (referred to as Pipeline No.1 and Pipeline No.2) and the operation, maintenance, and future reconstruction / replacement of those pipelines and associated dewatering and diversion of coastal waters, bed disturbance and vehicle use.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:566-352 to R16:596-353

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1 and the Common CMA Conditions in Schedule 2.

2. The Consent Holder must advise the Waikato Regional Council in writing at least 10 days prior to undertaking any planned maintenance or reconstruction / replacement activities in the Coastal Marine Area.

3. At least three months prior to any reconstruction / replacement of the structures the Consent Holder must provide the Waikato Regional Council with a detailed plan of the proposed works for approval by the Waikato Regional Council acting in a technical certification capacity, including but not limited to the following:

   (a) The scope and nature of works;
   (b) Timing of works;
   (c) Construction methodology;
   (d) Means to avoid, remedy or mitigate adverse effects to the Coastal Marine Area that may arise from the proposed works; and
   (e) Evidence of consultation with, and any written feedback from, the Harbourmaster.

4. Any planned pipeline maintenance or reconstruction / replacement works proposed within the onshore beach environment must not be undertaken within the period September to January inclusive, to avoid adverse impacts on NZ Dotterel nest sites as far as practicable, unless prior written approval is obtained from the Waikato Regional Council acting in a technical certification capacity in consultation with the Department of Conservation.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.*

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent:	AUTH142035.11.01 (Coastal Permit – Mooring Buoy)
File Number:	60 40 32A

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

Taharoa Ironsands Limited PO
Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent Type:	Coastal Permit
Consent Subtype:	Structure - Occupation, Use and Maintenance
Activity authorised:	To place and use a mooring buoy and associated structures in the Coastal Marine Area, including future reconstruction/replacement and associated occupation and disturbance.
Location:	Taharoa Road, Taharoa
Spatial Reference:	Long. 174° 39.9144 E Lat. 38° 10.5118 S (WGS84 degrees and minutes)
Consent Duration:	This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1 and the Common CMA Conditions in Schedule 2.

Notification

2. The Consent Holder must advise the Waikato Regional Council in writing 10 days prior to undertaking any planned replacement of structures in the Coastal Marine Area. This excludes periodic exchanges of the mooring buoy with an alternate.

3. At least three months prior to any proposed permanent relocation of the mooring buoy and/or associated structures, the Consent Holder must provide the Waikato Regional Council with a detailed plan of the proposed works for approval by the Waikato Regional Council acting in a technical certification capacity, including but not limited to the following:

    (a) The new location for the mooring buoy and/or associated structures;
    (b) The scope and nature of works involved to relocate the mooring buoy and/or associated structures;
    (c) Timing of works;
    (d) Methodology;
    (e) Means to avoid, remedy or mitigate adverse effects to the Coastal Marine Area that may arise from the relocation / proposed works; and
    (f) Evidence of consultation with, and any written feedback from, the Harbourmaster.

4. The mooring buoy and/or associated structures must not be permanently relocated unless and until the Waikato Regional Council has approved the new location and the mooring buoy and/or associated structures in accordance with Condition 3.

5. Should the mooring buoy be permanently relocated, the Consent Holder must upon completion of the relocation notify Waikato Regional Council, Maritime New Zealand and the Hydrographic Office of Land Information New Zealand in writing of the new location of the structures authorised by this resource consent.

Structural Integrity

6. Should the mooring buoy be permanently relocated, the Consent Holder must within six months of the relocation of the mooring buoy provide certification that the mooring buoy has been inspected and that it is sound and in a suitable condition for mooring vessels. The inspection and certification must have been undertaken by a marine engineer or other qualified professional accepted as competent to do so by the Waikato Regional Council.

7. A copy of the inspection report and any servicing that was undertaken to ensure the mooring complied with Condition 6, must be provided in writing within one month from the completion of each three yearly inspection to the Waikato Regional Council.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted

(s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

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 s332 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.

7. If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.

Resource Consent Certificate

Resource Consent: AUTH142035.12.01 (Discharge to CMA)

File Number: 60 40 32A

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

Taharoa Ironsands
Limited PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent Type: Coastal Permit

Consent Subtype: Discharge to Water

Activity authorised: To discharge ship loading water, including freshwater and fine sediment, to water in the Coastal Marine Area during ship loading operations.

Location: Taharoa Road, Taharoa

Spatial Reference: Long. 174° 39.9144 E Lat. 38° 10.5118 S (WGS84 degrees and minutes)

Consent Duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1 and the Common CMA Conditions in Schedule 2.

Environmental Protection

2. The discharge of ship loading water, including freshwater and fine sediment, must not exceed 75,000 m^3/day.

3. The maximum volume of ship loading water that may be discharged into the Coastal Marine Area during ship loading operations must not exceed 7.5 x 10^6 cubic metres in any 12-month period.

4. The Consent Holder must measure the volume of ship loading water discharged to the coastal marine area to demonstrate compliance with Conditions 2 and 3. Daily and annual volumes are to be reported to the Waikato Regional Council in the Annual Monitoring Report.

5. There must be no conspicuous oil, grease, scums or foams present after reasonable mixing as a result of the exercise of this consent.

6. The Consent Holder must analyse the discharge into the Coastal Marine Area during ship loading for grain size composition within the suspension, the clay mineralogy and heavy metal concentrations at least every six months. Samples must be taken during the loading cycle, one near the start, one sample in the middle and one sample near the end. Each sample must be taken as close as practical to the point where the overflow enters the marine environment. Heavy metals analysed must include Aluminium, Arsenic, Nickel, Copper, Iron, Manganese, Lead and Zinc. All analyses must be for dissolved metals.

7. The results of the sampling described in Condition 6 must be submitted to Waikato Regional Council in the Annual Monitoring Report

8. The consent holder must commission an independent ecological survey and report from a SQEP – marine ecology 5 years after the commencement of this consent adopting the same or equivalent sampling methodology and locations, measuring the same sediment (including grain size/mud content), metal and benthic macroinvertebrate parameters, and employing the same or equivalent methods of statistical analysis as that reported in Appendix V to the application as prepared by SLR Consulting New Zealand, and include the results of this report in the Annual Monitoring Report.

9. If the report does not identify any statistically significant differences in the parameters referred to in condition 8 between the Mooring and Reference Sites, nor any adverse effects on benthic invertebrate communities, no further report need be commissioned by the Consent holder.

10. If the report required by condition 8 does identify any statistically significant differences in the parameters between the Mooring and Reference Sites, or any adverse effects on benthic invertebrate communities, a further equivalent survey and report shall be commissioned 10 years after the commencement of this consent, and every 5 years thereafter, until a report is received that does not identify any statistically significant differences in the parameters between the Mooring and Reference Sites, nor any adverse effects on benthic invertebrate communities.

Underwater noise

11. Within 6 months of the commencement of this consent, the Consent Holder shall engage a SQEP - noise to undertake a one-off verification underwater noise survey of the noise generated by vessels arriving and departing from Port Taharoa and from vessels undertaking ship loading. The results of the noise survey must be submitted to Waikato Regional Council within one month of the results being received.

12. If new vessels are procured by the Consent Holder or substantially different methods or equipment for loading Ironsand and associated dewatering are used, the verification noise monitoring undertaken as per Condition 11 shall be repeated.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

3. The consent holder may apply to change the conditions of the resource consent under s127 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 s332 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.

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council*.

Resource Consent
Certificate

Resource Consent: AUTH142035.13.01 (Discharge to Water to CMA)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent Type: Coastal Permit

Consent Subtype: Discharge to water

Activity authorised: To discharge stormwater and process wastewater to water in the Coastal Marine Area from mining operations on Taharoa C Block and any land legally authorised to be used for iron sand mining operations.

Location: Taharoa Road, Taharoa

Consent Duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1 and the Common CMA Conditions in Schedule 2.

Environmental Protection

2. The discharge of stormwater and process wastewater from the site to water in the Coastal Marine Area must not exceed 32,600 m^3/day.

3. Discharges authorised by this consent must only occur where the discharge of stormwater and process water to land (as authorised by consent AUTH142035.07.01) is not possible, for example during flood events or high rainfall periods when stormwater ponds have reached or exceeded 80% of their storage capacity.

4. Where the discharge of excess stormwater and process wastewater to the Coastal Marine Area is necessary as per Condition 3, it must be discharged via a ship loading pipeline and may be coincident with ship loading of ironsand.

5. The Consent Holder must measure the volume of stormwater and process wastewater discharged to the coastal marine area to demonstrate compliance with Condition 2. Daily volumes are to be reported to Waikato Regional Council in the Annual Monitoring Report.

6. There must be no conspicuous oil, grease, scums or foams present in the receiving environment after reasonable mixing as a result of the exercise of this consent.

7. As soon as practical following commencement of this consent, the nephelometric turbidity unit (NTU) to Formazin Turbidity Unit NTU/FTU equivalent relationship must be established for the stormwater/process water for the site. This shall be achieved by:

    (a) the collection of no less than 8 samples from the stormwater holding pond or ponds;
    (b) contemporaneous total suspended solids (TSS) and turbidity testing of the samples. The TSS sampling should be undertaken by a laboratory, the NTU/FTU readings should be undertaken by site monitoring equipment and the laboratory.
    (c) establishing the relationship between the NTU/FTU results and the TSS results. This relationship must be established once during the duration of the consent.

8. Prior to discharge of stormwater to the CMA a water sample must be collected from the holding pond or ponds that the discharge will be sourced from. This sample must be analysed for turbidity, pH, heavy metals and hydrocarbons. Samples are to be analysed by an accredited laboratory and heavy metals are to be analysed for total concentration at trace level.

9. Prior to the discharge of stormwater to the CMA, the Consent Holder must measure the turbidity in NTU/FTU of the stormwater/process water and compare this value with the turbidity trigger value in NTU/FTU, using the relationship established in accordance with Condition 7, that is equivalent to a TSS of 1,280mg/l.

10. If the measured turbidity of the stormwater or process water to be discharged exceeds the trigger value in Condition 9, the Consent Holder must:

    (a) Implement management practices to reduce the turbidity of the stormwater;
    (b) Remeasure the turbidity of stormwater or process water from the holding ponds following the implementation of the management practices; and

(c) Only commence discharging once the stormwater has an NTU/FTU reading less than the turbidity trigger level in Condition 9.

11. The Consent Holder shall make available the testing and monitoring results to the Waikato Regional Council upon request.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.*

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent Certificate

Resource Consent Number: AUTH142035.14.01 (Groundwater Diversion)

File Number: 60 40 32A

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

Taharoa Ironsands
Limited PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Water Permit

Consent subtype: Diversion and Surface Water Take

Activity authorised: To divert groundwater in association with ironsand mining operations and to take water from within a dredge pond as a result of extraction of sand for use in mining operations.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:597-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

Mitiwai Stream

2. The Consent Holder shall monitor the Mitiwai Stream at the flow monitoring locations shown in Figure 1 below to determine the Q5 for the stream, for the purposes of implementing management responses should mining affect stream flow beyond the Q5 baseline, as follows:

   During sand extraction and/or tailings deposition in the Central Block within Pit 1, base flow in the Mitiwai Stream must be augmented at the flow augmentation point shown in Figure 1 if:

   (a) the upstream flow gauge records a flow in the Mitiwai Stream of greater than 95% of Q5; and

   (b) the downstream flow gauge records a flow in the Mitiwai Stream of less than 95% of Q5; and

   (c) manual flow gaugings validate both flows recorded in (a) and (b).

   The Q5 shall be updated annually over a three-year period following the commencement of this consent to facilitate the capture of three annual low flows, and this must be reported in the Annual Monitoring Report.

   Augmentation must be undertaken with fresh water with an electrical conductivity not exceeding 1,000 µS/cm, to achieve 95% of the Q5 as measured at the downstream flow recording site shown in Figure 1 and avoid using waters sourced from outside the Mitiwai Stream catchment if practicable.

   Manual flow gauging's must be undertaken annually, at the start of December, to confirm the ongoing validity of the flow rating curve. If the manual flow gauging diverges from the current rating curve by +/- 10%, then additional rating gauging must be undertaken to update the rating curve.

   Advice Notes:

   The National Environmental Monitoring Standards should be used as a guiding document to help support quality data collection, but only to the extent that the Standards are relevant and applicable in the context of sandy coastal streams.

   The Q5 flow is the 7-day average annual low flow, that has a one in five- year recurrence interval. The Q5 flow will be calculated from a time series of simulated daily flow data of at least 20-years in duration. The simulated timeseries will be derived from a hydrological model calibrated to measured flow data over at least a six-month period, which captures seasonal recession following winter and summer low baseflow dynamics.

3. Within 3 months of the commencement of this consent, the Consent Holder shall undertake baseline biological contaminant and aquatic pest organism, temperature, pH, and turbidity measurements at the upstream and downstream flow recording sites referred to in Condition 2 above. Any augmentation of base flow in the Mitiwai Stream required by Condition 2 above shall not raise the temperature of the stream by more than 3 degrees Celsius or the turbidity of the stream by more than 10% after reasonable mixing. The pH of the water to be used for augmentation shall be between 6 and 9. For the purposes of this consent, "biological contaminant" is defined as any naturally occurring aquatic organism that when discharged to water adversely changes or is likely to adversely change the physical, chemical, or biological condition of water.

4. Any augmentation of base flow in the Mitiwai Stream required by Condition 2 above shall ensure that:

   (a) the upstream passage of fish in the Mitiwai Stream shall be maintained; and
   (b) no biological contaminants or aquatic pest organisms not already present in the Mitiwai Stream are introduced to the Mitiwai Stream; and
   (c) no cyanobacterial bloom is introduced to the Mitiwai Stream.

5. Within one week of the commencement of augmentation of stream flow required by Condition 2, and every 4 weeks thereafter while the discharge is occurring, the Consent Holder shall manually monitor the augmentation discharge to demonstrate compliance with the discharge parameters set out in Condition 3 above.

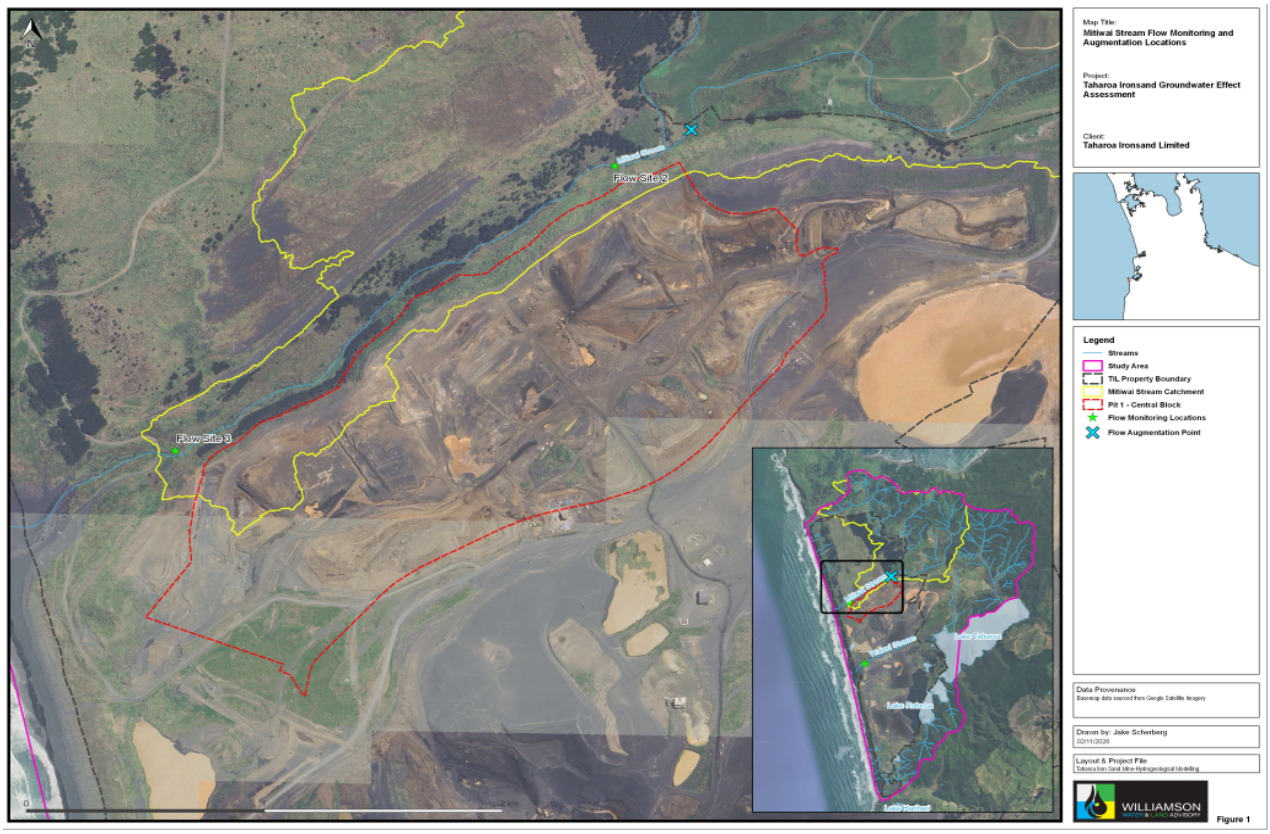


Figure 1 Mitiwai Stream Flow Monitoring and Augmentation Locations

6. Should the monitoring required by Condition 5 show a significant reduction in the parameters set out in Condition 3, the Consent Holder shall within five working days of becoming aware of the significant reduction in the parameters, initiate management measures to address the reductions which could include, but not be limited to, a change to the source of augmentation water and/or alteration to augmentation flow rates.

Groundwater Drawdown

7. The Consent Holder shall manage its mining activities so that the maximum groundwater drawdown levels in the central and southern mine pits as assessed in WWLA Figures A1 to A6 dated 15 July 2026 (refer below) are not exceeded.

8. The Consent Holder shall install, maintain and continuously monitor groundwater levels in (a) and (b) and annually report to WRC to demonstrate compliance with Condition 7 at the following locations in WWLA Figure A6 (refer below):

   (a) Central Pit:
   MBC1 1749571 mE 5774671 mN
   MBC2 1750752 mE 5775194 mN

   (b) Southern Pit:
   MBS1 1749675 mE 5772469 mN
   MBS2 1751008 mE 5773045 mN
   MBS3 1750046 mE 5770743 mN

9. Within 10 working days of becoming aware of non-compliance with Condition 7 the Consent Holder shall engage a SQEP – hydrology to report on the extent of the non-compliance and to recommend management responses in relation to any adverse effects. The Consent Holder shall, within 5 working days of being advised of any adverse effects, implement measures to address the identified adverse effects based on the recommendations set out in the hydrologist's report. The Waikato Regional Council shall be advised of the non-compliance event if adverse effects were identified, and the responses taken by the Consent Holder, within 10 working days of completion of the report.

10. Where monitoring data are unavailable or unreliable the Consent Holder must replace or repair the affected monitoring piezometer within 25 working days.

11. The Consent Holder shall take all practical measures to maintain the electrical conductivity of pit water at less than 1,000 µS/cm to control potential saline intrusion into the sand aquifer.

12. If pit water is to be discharged to any lake, stream or wetland then it must be monitored to demonstrate electrical conductivity is less than 1,000 µS/cm. The Consent Holder shall include this monitoring in the annual report to WRC.

13. Groundwater shall continue to be monitored post mine closure to verify, through annual report to WRC, that post mining baseflows return to pre mining baseflows. This monitoring may cease when post mining baseflows have returned to pre mining baseflows.

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.

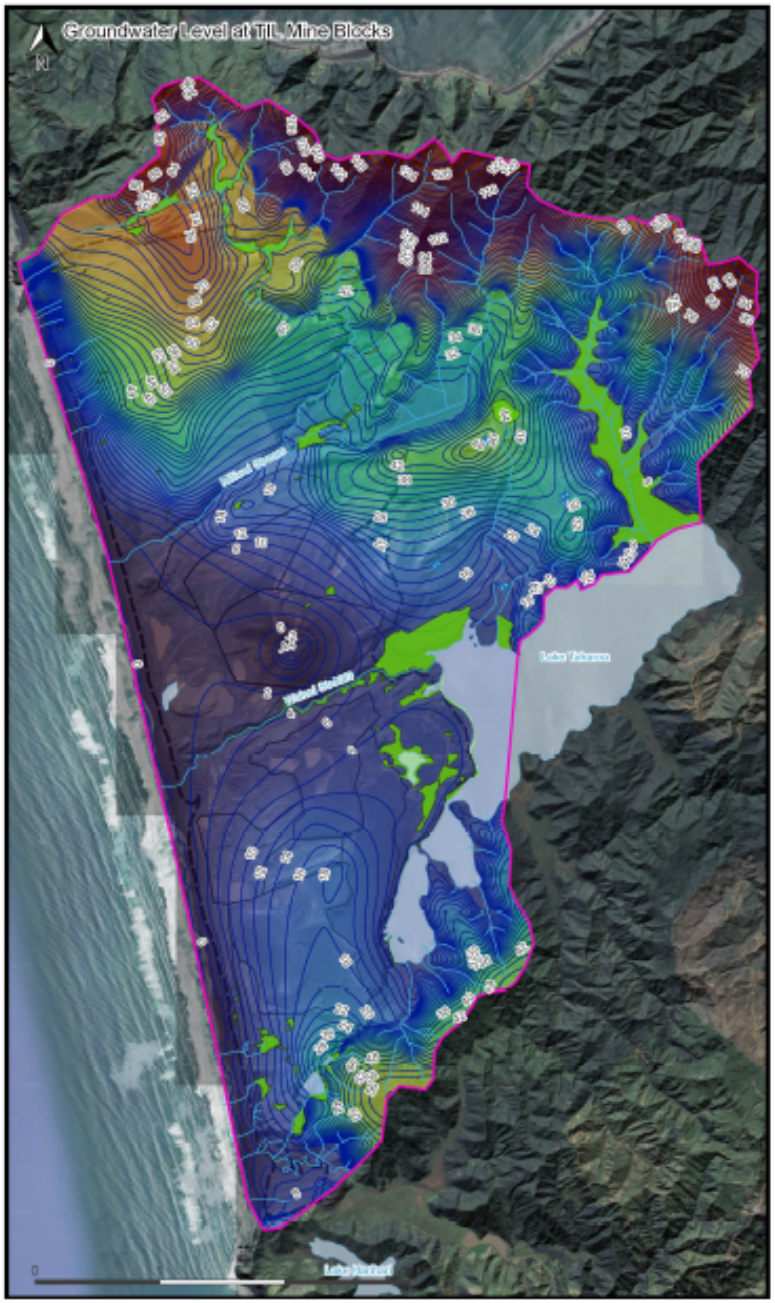
2. This resource consent is transferable to another owner or occupier of the land concerned, upon application to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

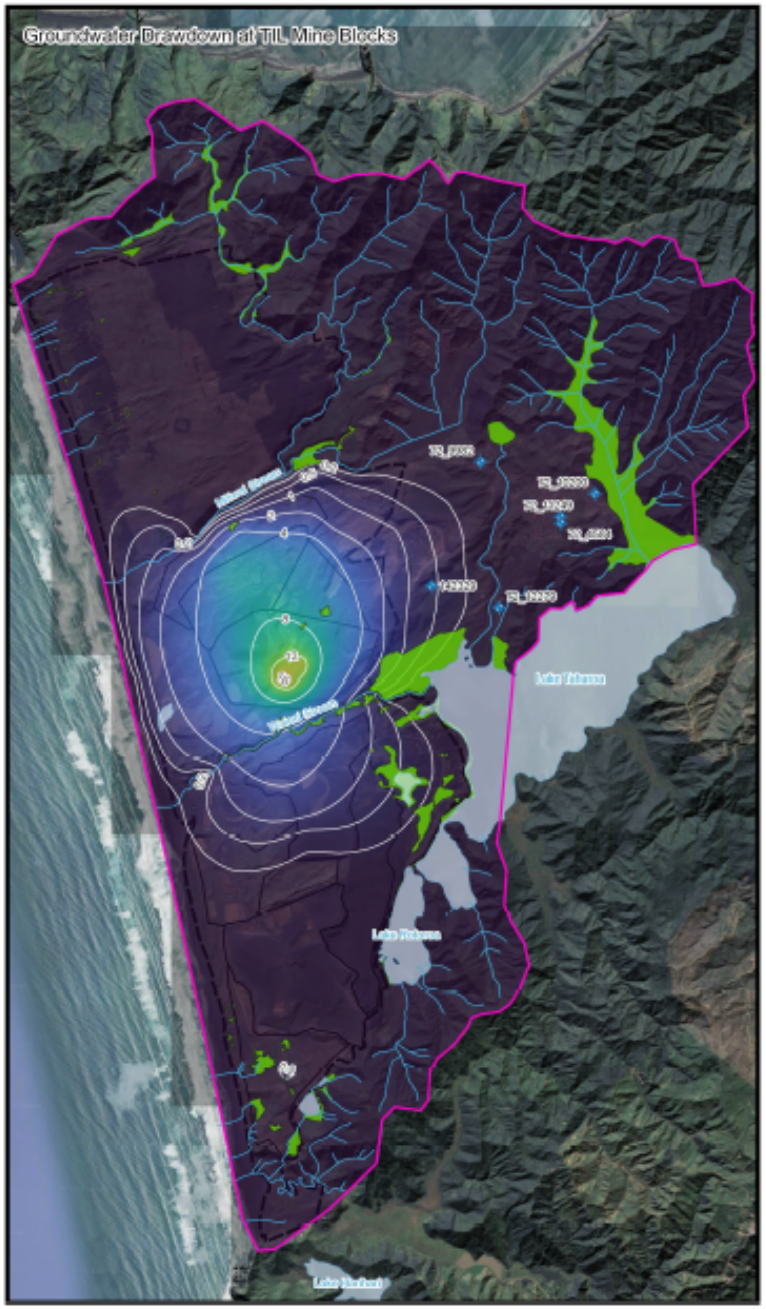
3. The consent holder may apply to change the conditions of the resource consent under s.127 RMA.

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 s332 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.*





Map Title:
Groundwater Level (L) | Groundwater Drawdown (R)
Central Block - Maximum Excavation (Model Time July 2011)

Project:
Taharoa Ironsand Groundwater Effect Assessment

Client:
Taharoa Ironsand Limited



Legend

- Bores
- Groundwater Level Contours (mAMSL)
- Groundwater Drawdown Contours (m)
- Streams
- TIL Property Boundary
- Study Area
- Mine Blocks
- Wetlands
- Lakes

Groundwater Level (mAMSL)
(Left Panel)
100
0

Groundwater Drawdown (m)
(Right Panel)
25
0

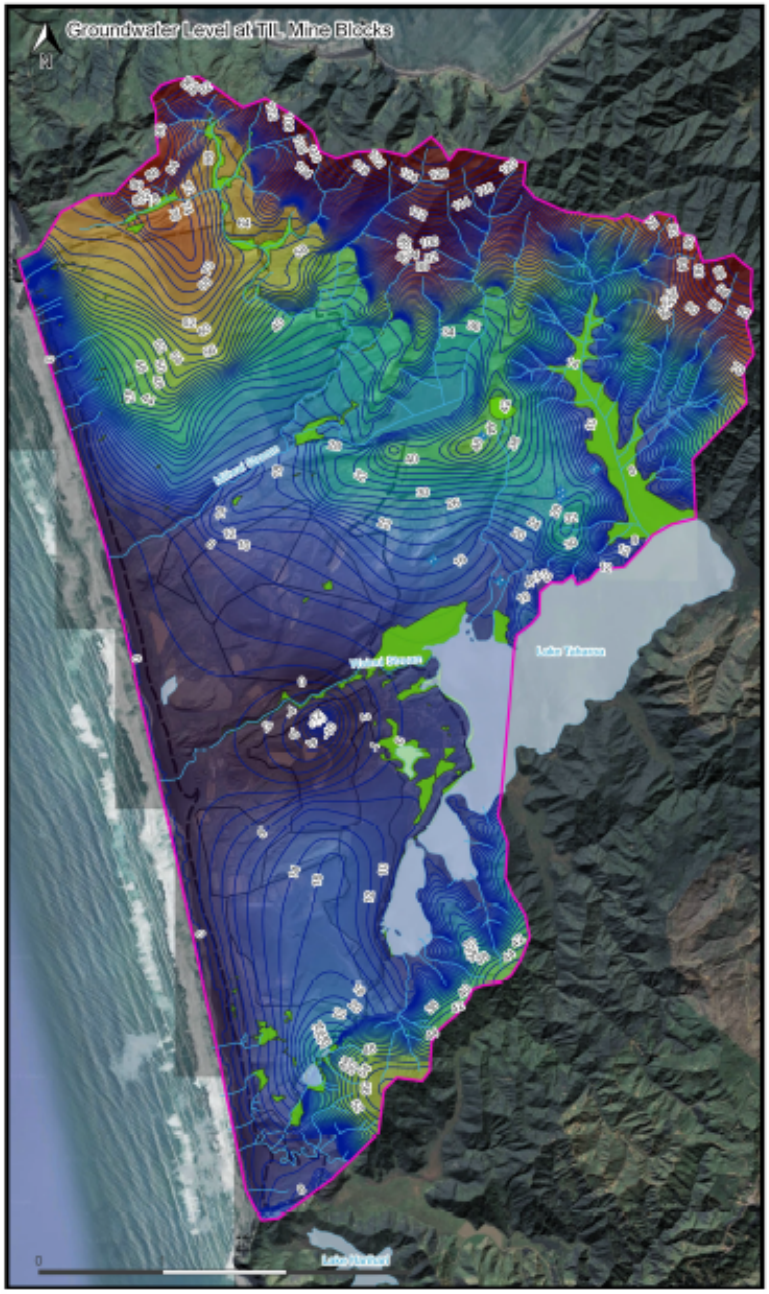
Data Provenance
GNS Layers

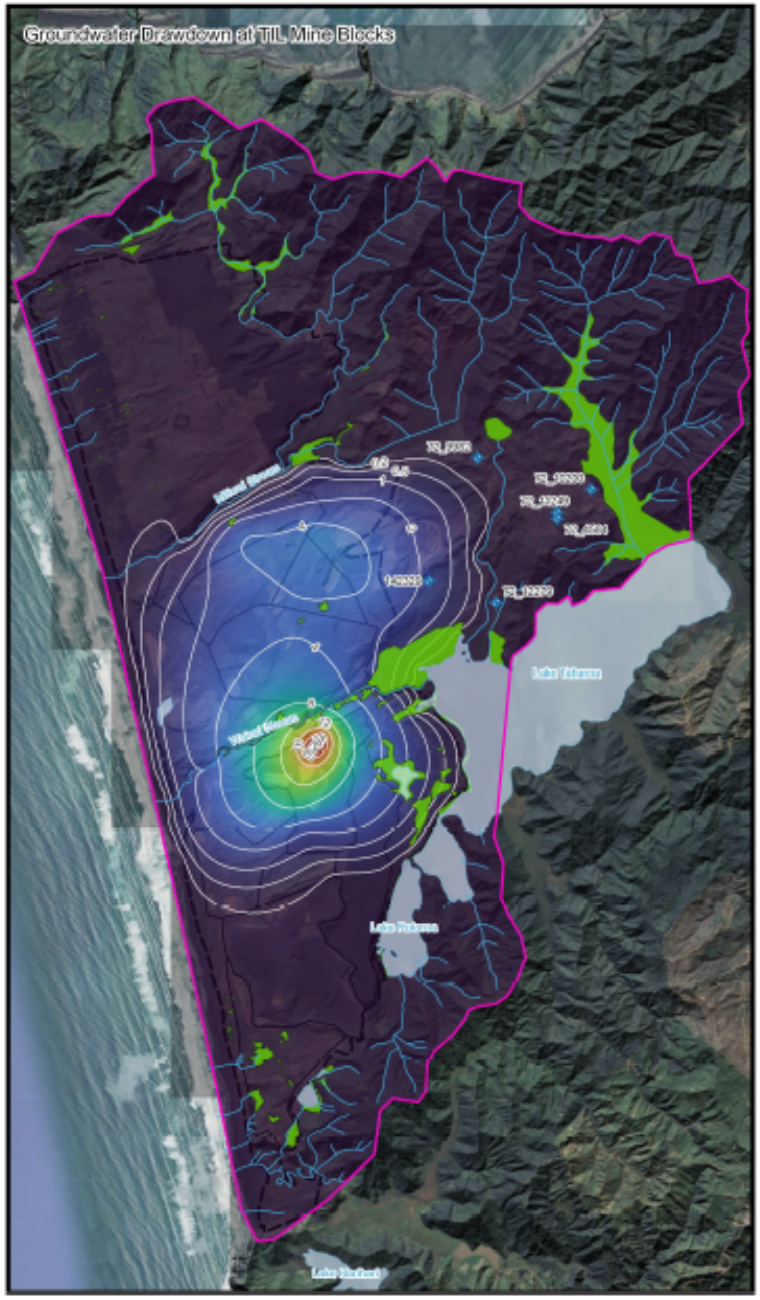
Drawn by: Kevin Burdette
19/07/2020

Layout & Project File
Taharoa Iron Sand Mine Hydrogeological Modelling

WILLIAMSON WATER & LAND ADVISORY

Figure A1





Map Title:
Groundwater Level (L) | Groundwater Drawdown (R)
Southern Block - Maximum Excavation (Model Time March 2016)

Project:
Taharoa Ironsand Groundwater Effect Assessment

Client:
Taharoa Ironsand Limited



Legend

- Bores
- Groundwater Level Contours (mAMSL)
- Groundwater Drawdown Contours (m)
- Streams
- TIL Property Boundary
- Study Area
- Mine Blocks
- Wetlands
- Lakes

Groundwater Level (mAMSL) (Left Panel)
100
0

Groundwater Drawdown (m) (Right Panel)
25
0

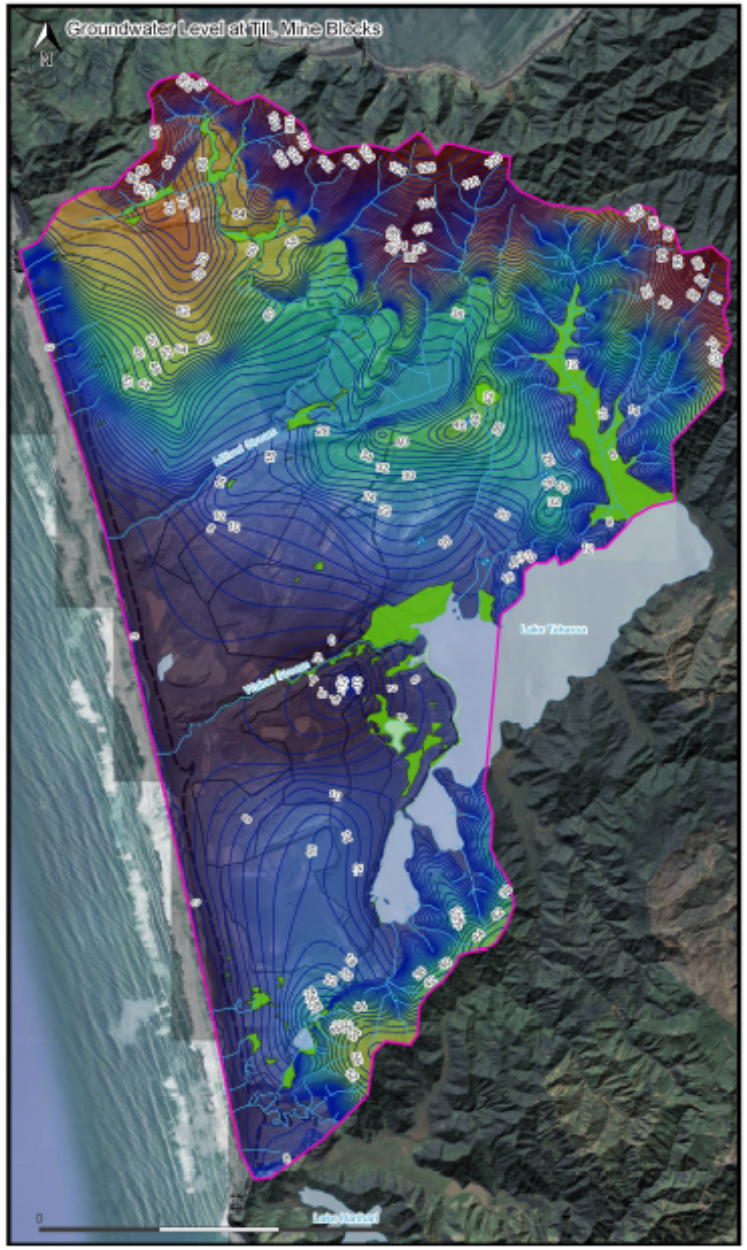
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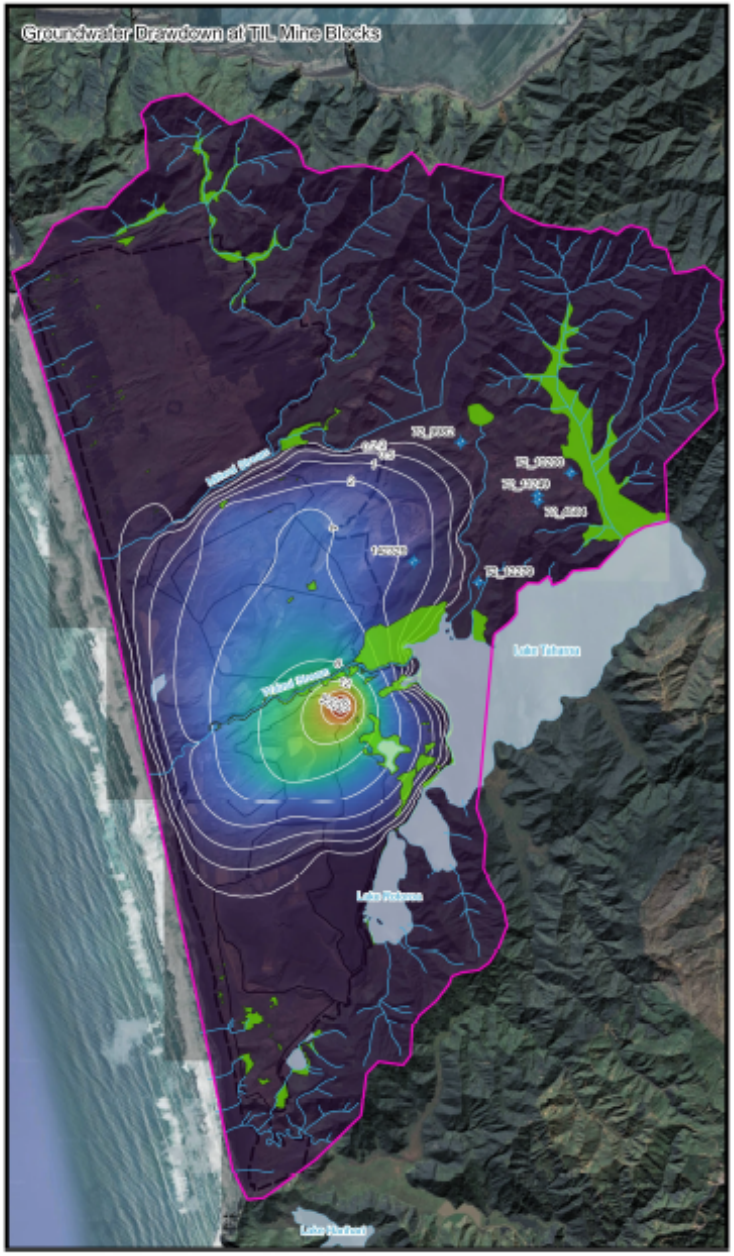
Drawn by: Kevin Burdette
15/07/2020

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Taharoa Iron Sand Mine Hydrogeological Modelling

WILLIAMSON WATER & LAND ADVISORY

Figure A3





Map Title:
Groundwater Level (L) | Groundwater Drawdown (R)
Southern Block - Closest Proximity to Lake Taharoa Area Wetlands (Model Time June 2019)

Project:
Taharoa Ironsand Groundwater Effect Assessment

Client:
Taharoa Ironsand Limited



Legend

- Bores
- Groundwater Level Contours (mAMSL)
- Groundwater Drawdown Contours (m)
- Streams
- TIL Property Boundary
- Study Area
- Mine Blocks
- Wetlands
- Lakes

Groundwater Level (mAMSL)
(Left Panel)
100
0

Groundwater Drawdown (m)
(Right Panel)
25
0

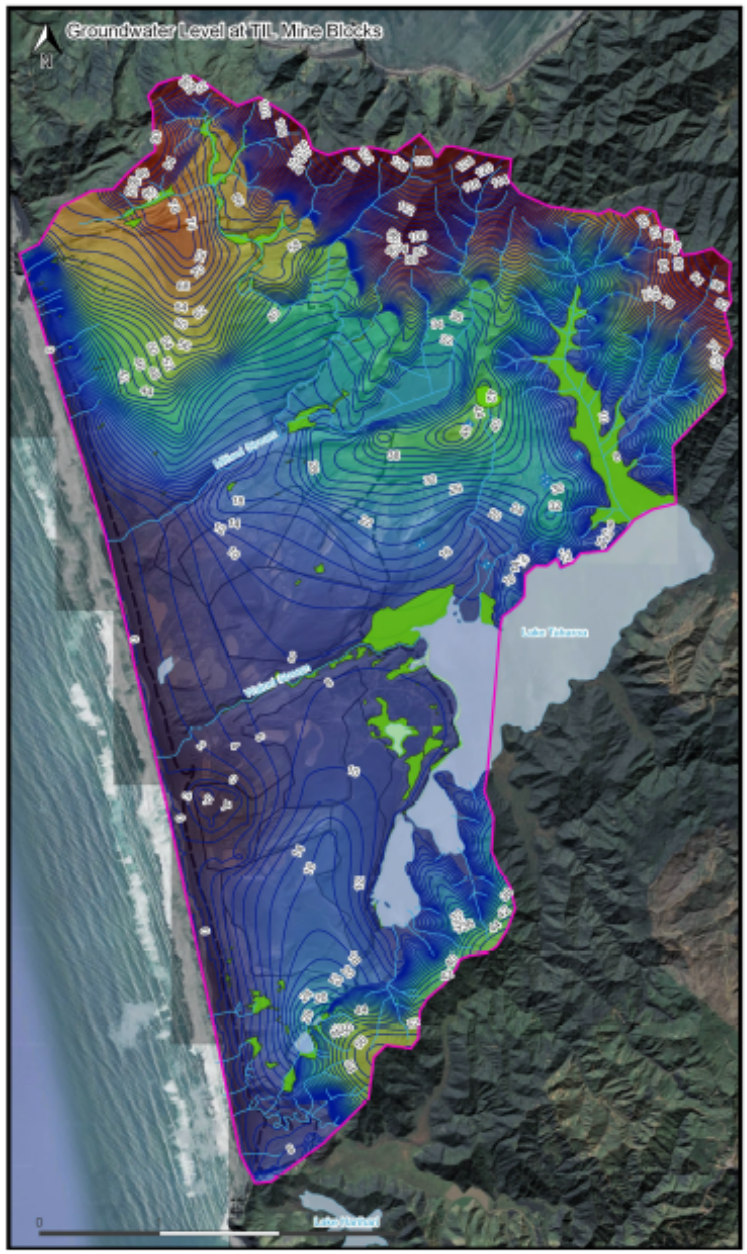
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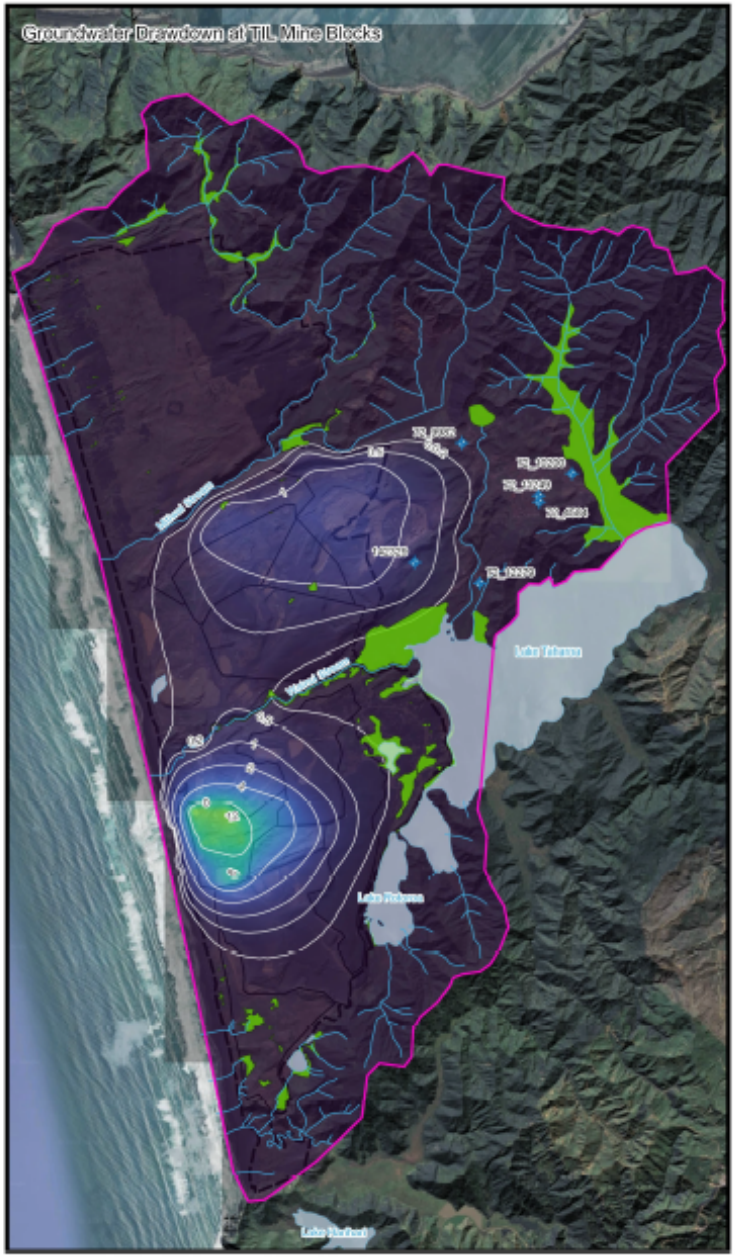
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15/07/2020

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Taharoa Iron Sand Mine Hydrogeological Modelling

WILLIAMSON WATER & LAND ADVISORY

Figure A.1





Map Title:
Groundwater Level (L) | Groundwater Drawdown (R)
Southern Block - Closest Proximity to Coast
(Model Time June 2018)

Project:
Taharoa Ironsand Groundwater Effect Assessment

Client:
Taharoa Ironsand Limited



Legend

- Bores
- Groundwater Level Contours (mAMSL)
- Groundwater Drawdown Contours (m)
- Streams
- TIL Property Boundary
- Study Area
- Mine Blocks
- Wetlands
- Lakes

Groundwater Level (mAMSL)
(Left Panel)
100
0

Groundwater Drawdown (m)
(Right Panel)
25
0

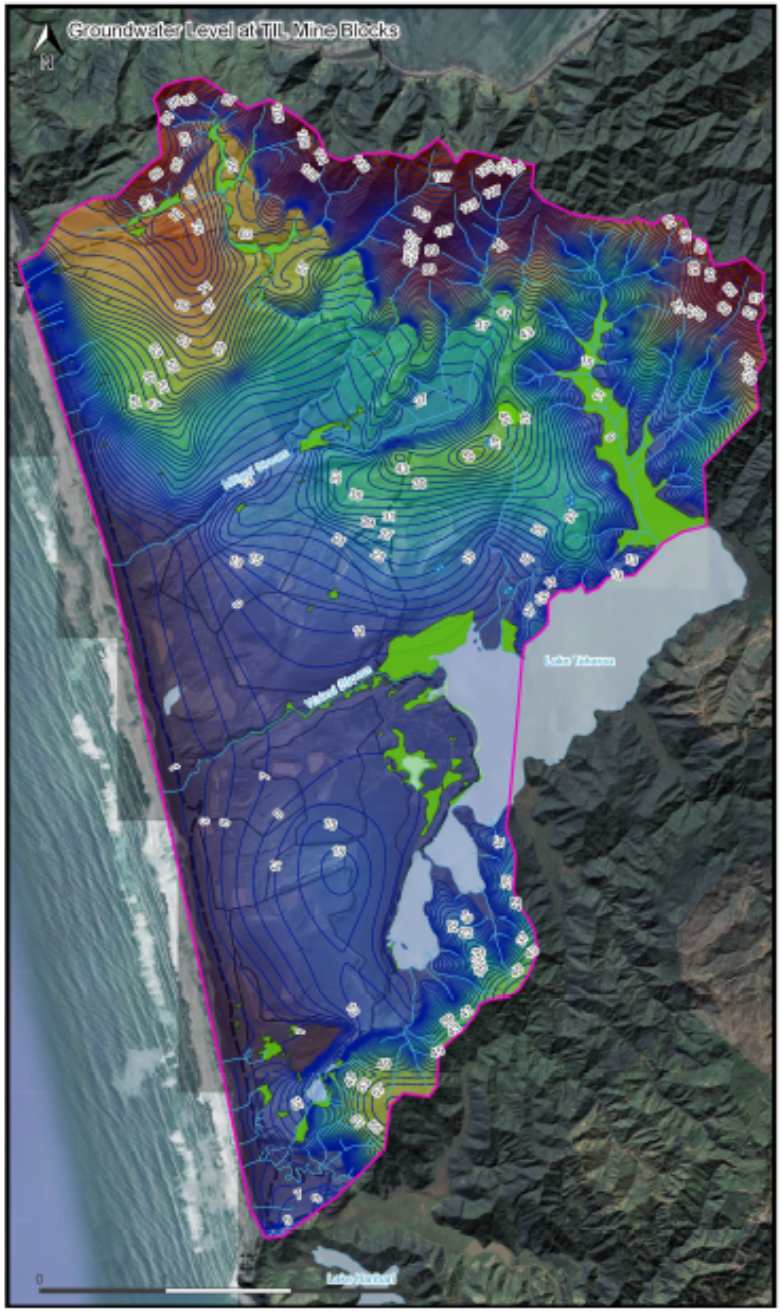
Data Provenance
GWLayers

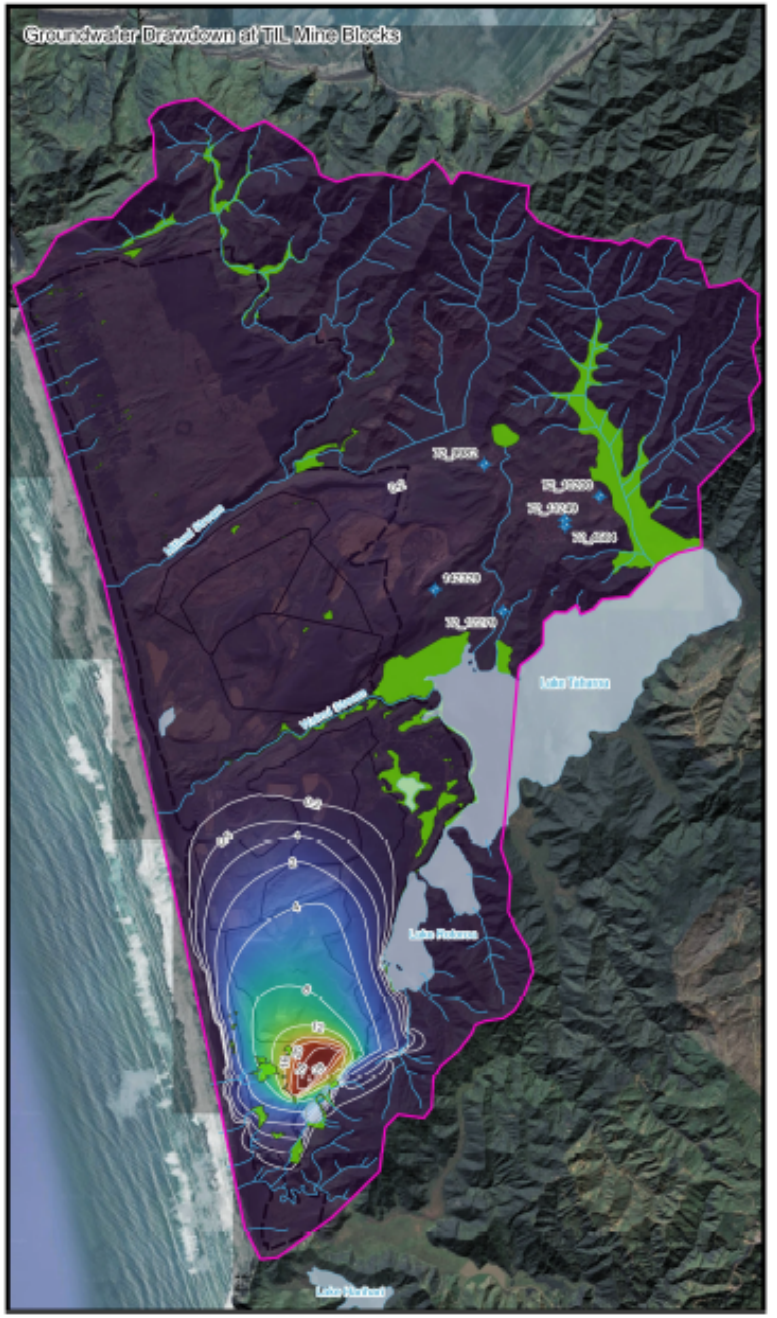
Drawn by: Kevin Burdette
15/07/2020

Layout & Project File
Taharoa Iron Sand Mine Hydrogeological Modelling

WILLIAMSON WATER & LAND ADVISORY

Figure A4





Map Title:
Groundwater Level (L) | Groundwater Drawdown (R)
Southern Block - Closest Proximity to Southern Wetlands
(Model Time May 2024)

Project:
Taharoa Ironsand Groundwater Effect Assessment

Client:
Taharoa Ironsand Limited



Legend

- Bores
- Groundwater Level Contours (mAMSL)
- Groundwater Drawdown Contours (m)
- Streams
- TIL Property Boundary
- Study Area
- Mine Blocks
- Wetlands
- Lakes

Groundwater Level (mAMSL)
(Left Panel)
100
0

Groundwater Drawdown (m)
(Right Panel)
25
0

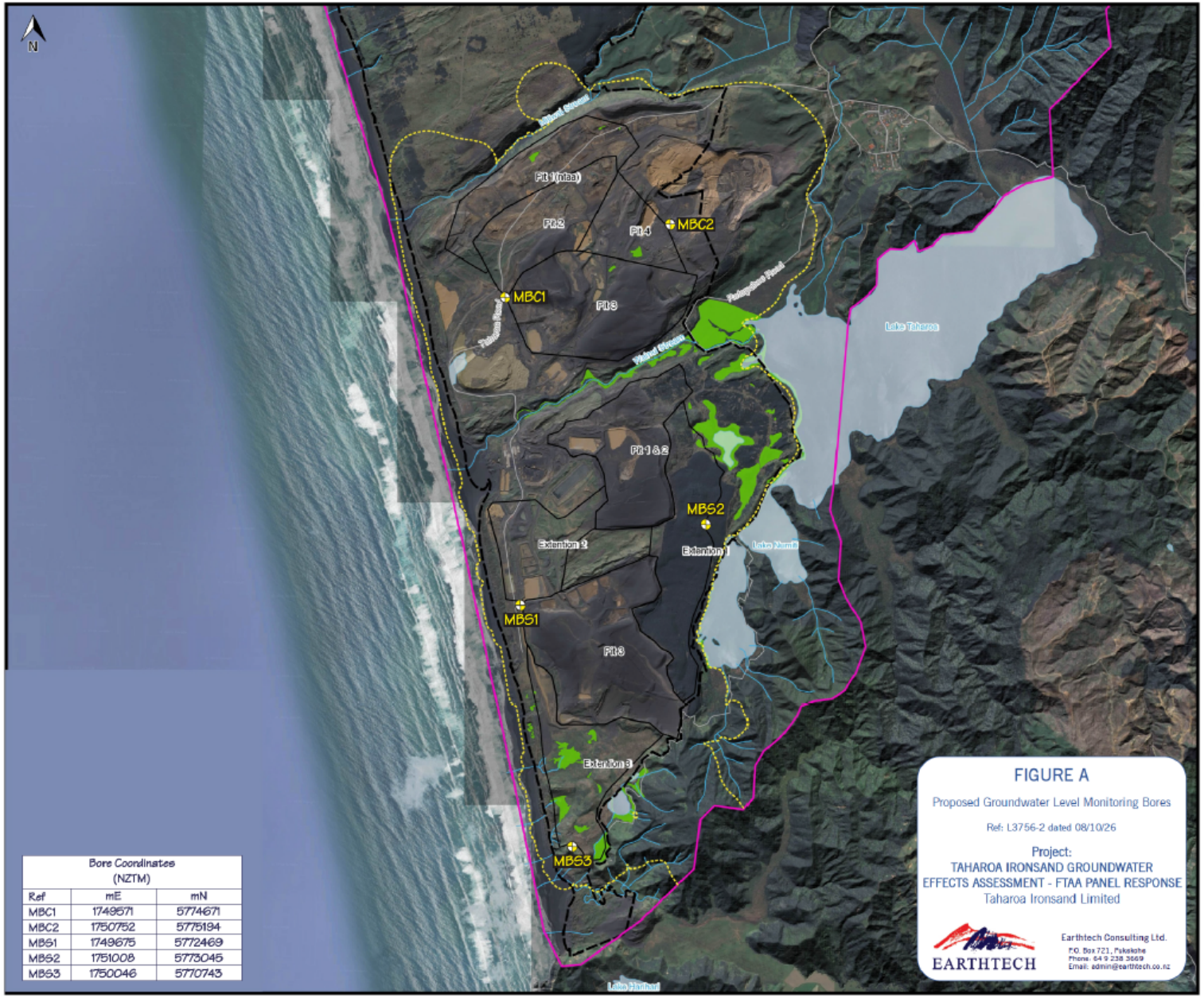
Data Processing
GDB Layers

Drawn by: Kevin Burdette
15/07/2025

Layout & Project File
Taharoa Iron Sand Mine Hydrogeological Modelling

WILLIAMSON WATER & LAND ADVISORY

Figure A5



Bore Coordinates (NZTM)		
Ref	mE	mN
MBC1	1749671	5774671
MBC2	1750752	5775194
MBS1	1749675	5772469
MBS2	1751008	5773045
MBS3	1750046	5770743

FIGURE A

Proposed Groundwater Level Monitoring Bores

Ref: L3756-2 dated 08/10/26

Project:
TAHAROA IRONSAND GROUNDWATER EFFECTS ASSESSMENT - FTAA PANEL RESPONSE
Taharoa Ironsand Limited

EARTHTECH
Earthtech Consulting Ltd.
P.O. Box 721, Pukekohe
Phone: 64 9 238 3669
Email: admin@earthtech.co.nz

Map Title:
Maximum extent of 0.2 m drawdown over full mining sequence

Project:
Taharoa Ironsand Groundwater Effect Assessment - FTAA Panel Response

Client:
Taharoa Ironsand Limited



Legend

- Road
- Streams
- Lakes
- Study Area
- TIL Property Boundary
- Mining blocks
- Wetlands
- 0.2 m dradown contour (full mining sequence)

MBS2 Groundwater Level Monitoring Bores

Data Provenance
GIS Layers

Drawn by: Jake Scherberg
15/07/2026

Layout & Project File
Taharoa Iron Sand Mine-Hydrogeological Modelling

WILLIAMSON WATER & LAND ADVISORY

Figure A6

Resource Consent
Certificate

Resource Consent Number: AUTH142035.15.01 (Discharge Water to Ponds)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Discharge Permit

Consent subtype: Discharge to Water

Activity Authorized: Discharge mining process water into water within a dredge pond and water management ponds, and discharge water containing contaminants (naturally occurring sediment) from a mining dredge into water within a dredge pond.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:596-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.

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 s332 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.

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.16.01 (Destroy & Disturb Wetlands)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Land Use Consent

Consent subtype: Land Disturbance

Activity authorised: Destroy and/or disturb natural inland wetlands and dewater natural inland wetlands by undertaking mining within 100 m of a natural inland wetland.

Location: Taharoa Road, Taharoa

Map Reference: NZMS 260 R16:596-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The exercise of this consent is subject to the General Conditions in Schedule 1.

2. The natural inland wetlands that are authorised to be destroyed or dewatered by this consent are limited to those shown on Figure 1 below (shown in orange) and as listed in Table 1.

3. The Consent Holder shall establish new natural inland wetland habitat within the area surrounding Site 27 as mapped on Figure 3 of the NIWBMP (Version 5.0, 8 September 2026), either through the creation of new wetland areas or by augmenting existing constructed wetlands to achieve the Area Requirements and Progress Targets as per Table 1. The purpose of this new habitat is to generate a net gain offset of wetland vegetation cover to address the loss of wetlands and generate additional gain to compensate for permanent loss of seepage wetlands.

Table 1: New Wetland Area Requirements and Progress Targets

New Natural Inland Wetland Area Requirement	Progress Targets
To offset the loss of 0.49 ha of shallow water wetland, establish a minimum of 2 ha of shallow water habitat (average water depth <50 cm) to achieve 75% wetland plant species cover, including at least 25% cover of submerged macrophytes, within 10 years of destruction of Wetlands 7 and 17 as shown on Figure 1.	Within 5 years of destruction of Wetlands 7 and 17 as shown on Figure 1, wetland plant species cover in the 2 ha of shallow water habitat must be at least 30% and average water depth must be between 10 cm and 50 cm
To offset the loss of 0.03 ha of raupō (*Typha orientalis*) reedland, establish a minimum of 0.5 ha of wetland with a minimum of 50% wetland plant species within 10 years of destruction of Wetland 23 as shown on Figure 1.	Within 5 years of destruction of Wetland 23 as shown on Figure 1, raupō cover in the 0.5 ha of raupō offset wetland must be at least 20%.
To compensate for the loss of 3.72 ha of seepage wetland, establish at least 5.8 ha of wetland habitat that must comprise of saturated soils (i.e. not standing water) that must reach 90% wetland plant species cover within 5 years of destruction of Wetlands 5, 6, 7, 20 & 25 as shown on Figure 1.	Within 2 years of the destruction of wetlands 5, 6, 7, 20 & 25 as shown on Figure 1, wetland plant species cover must be at least 40% in both wetland and buffer habitat.
Minimum of 30m wide terrestrial buffer planting around the offset & compensation site.	Within 5 years of the destruction of any of the wetlands authorised by this consent, 90% wetland plant species cover must be achieved within the planted buffer.

4. The works to establish the new wetland habitat required by Condition 3 shall start no later than 6 years prior to the destruction of any natural inland wetland that is authorised to be destroyed or dewatered by this consent as shown on Figure 1 below. Following the completion of earthworks to form the wetland, no planting of the wetland shall take place until water levels within the wetland have been monitored for 12 months and a SQEP – ecology appointed by the Consent Holder confirms that suitable hydrological conditions within the wetland exist for planting to commence.

5. The new wetland habitat required by Condition 3 shall be designed, implemented, and maintained (maintenance could include but not be limited to additional planting, weed control, hydrological adaptations) to achieve no net loss of wetland habitat and ecological function, as a result of the destruction of wetlands identified on Figure 1 (wetland offset). The responses to be undertaken if the progress targets set out in Table 1 are not met are as follows:

   (a) Additional plants will be planted to fill any gaps. This will be at a higher density than the original planting and using species specified in the planting mix or appropriate substitutes.
   (b) An assessment of weed and exotic plant cover will be made, and appropriate weed control undertaken to achieve weed control targets.
   (c) An assessment of pest animal impacts will be made, and appropriate pest control undertaken.
   (d) Additional watering will be initiated during dry months (for terrestrial plantings), if it is deemed by a SQEP – ecology appointed by the Consent Holder that water stress is an issue.
   (e) If during visual, quadrat or photo monitoring, plants are found to have died, these will be replaced as soon as practicable.

6. Prior to mining occurring within 100 metres of any retained natural inland wetland, the Consent Holder shall undertake baseline monitoring of water levels for 12 months at the following locations:

Wetland ID (all ID references are to the wetlands shown on Figure 2 below)	**Easting**	**Northing**
Wetland 72 (Group 3)	1749758	5771571
Wetland 80 (Group 4)	1751050	5773716
Wetland 42 (Group 1)	1750264	5776136

The purpose of the baseline monitoring is to provide 12-months of data to enable calibration of a model to simulate longer term historical water levels (20-30 years). The simulated water level dataset for each group of wetlands must be used to:

(a) define the trigger levels at each group, with these trigger levels determined by a SQEP - hydrology, in accordance with the methodology set out in Table 2 below; and
(b) determine the lowest and mean natural water level in each wetland in the periods of December – February, March – May, June – August and September – November (summer, autumn, winter, spring).

The purpose of the tiered trigger level system is to implement progressive management responses at times where water levels recede towards but prior to historical lows. Trigger levels shall be set using the methodology in Table 2.

In order to inform the Consent Holder of wetland water levels approaching and reaching Trigger Level TL1 as set out below, wetland water levels shall be monitored using either telemetered monitoring equipment or continuous monitoring data.

Table 1. Table of trigger levels setting methodology and management responses.

Trigger Level	Metric	Purpose	Management Response
TL1	5 percentile lowest of natural baseline water level.	Raise awareness of potential issue approaching if decline continues. To enable TIL to closely monitor wetland water levels and make preparations to augment the wetlands in the affected wetland group if declines continue.	• TIL to alert Waikato Regional Council that levels are approaching the low end of the anticipated range. • No other action required.
TL2	1 percentile lowest of natural baseline water level.	Acknowledgment that groundwater levels are at the limit of their historical range. Question is whether this is likely to continue, hence initiation of a review.	• TIL to commission a review of the most likely cause of the water level decline considering: • Seasonal climate (natural vs affected by mining); • Rate of decline • Timing with regard to the mining progression The review must be completed, and the outcomes of the review provided to Waikato Regional Council, within one month of Trigger Level TL2 being reached.
TL3	Outcome of TL2 review is that effect is likely induced by mining and likely to continue	Enact measures to mitigate effect	• Initiate augmentation of all wetlands in the affected group that are potentially connected to groundwater. • Augmentation water must be supplied to all wetlands identified in Table 3 of the NIWBMP (Version 5.0, 8 September 2026), meeting the water quality standards for augmentation water set under condition 9; and sustaining the water level above the 5th percentile as determined from baseline monitoring. • Other potentially groundwater connected wetlands in the group shall be augmented at an equal depth to the monitored wetland as identified in the table in Condition 6, adjusted for area (i.e. if 50 mm/day is added to Wetland 72, other groundwater connected wetlands in Group 3 shall also receive 50 mm/day of augmentation). • Once the monitored wetland can sustain the TL1 depth without augmentation, all augmentation in that wetland group can cease. Within three months of augmentation ceasing, the Consent Holder shall provide a report to Waikato Regional Council that sets out the methods that were used to undertake the augmentation and the

Trigger Level	Metric	Purpose	Management Response
			wetland ecological outcomes achieved by the augmentation.

7. The Consent Holder must engage a SQEP – ecology to undertake baseline monitoring of the extent and health of the wetlands as shown in Table 3 of the NIWBMP (Version 5.0, 8 September 2026) within the growing season following the commencement of this consent:

   (a) beginning in the growing season following the commencement of this consent annually for the first three years;
   (b) then, if adverse effects have not been detected; every two years for the next six years;
   (c) then, if adverse effects have not been detected; every 5 years for the duration of this consent.

   The ongoing monitoring shall be undertaken as set out in Section 3.2 of the NIWBMP (Version 5.0, 8 September 2026), including appropriate indicator and taonga species set out in Appendix 2 of the Ngaati Mahuta ki te Hauauuru Environmental Management Plan. The outcomes of this monitoring shall be provided to Waikato Regional Council as part of the Annual Monitoring report.

   For the purposes of this condition, "Growing Season" shall be defined as the period between 01 August and 12 June the following year.

8. The Consent Holder shall:

   (a) ensure that water levels within each retained wetland do not fall below the lowest natural seasonal water levels established through baseline monitoring, within the natural seasonal range (trigger level).
   (b) review the trigger levels referenced in Condition 6 (Table 2), if the monitoring undertaken in accordance with Condition 6 demonstrates a decline in ecological health due to mining operations.

   Compliance shall be demonstrated through ongoing monitoring and reporting in accordance with the Natural Inland Wetland and Buffer Management Plan.

9. The Consent Holder shall undertake:

   (a) baseline biological contaminant and aquatic pest organism, temperature, pH, turbidity, and electrical conductivity measurement within 3 months of the commencement of this consent at retained natural inland wetlands on the Central and Southern Blocks; and
   (b) baseline biological contaminant and aquatic pest organism temperature, pH, turbidity and electrical conductivity measurement within 6 months after establishment of the new natural inland wetland habitat required by Condition 3 above.

   Any augmentation of water levels in the wetlands referred to in 8(a) and 8(b) above shall be undertaken with fresh water with an Electrical Conductivity not exceeding 1000µS/cm and shall not raise the temperature of the water in the wetland by more than 3 degrees Celsius or the turbidity of the water in the wetland by more than 10%. The pH of the water to be discharged to the wetland shall be between 6 and 9. No biological contaminants or aquatic pest organisms not already present in the retained wetlands shall be introduced to the retained wetlands or the new natural inland wetland required by Condition 3 above, and no cyanobacterial bloom shall be introduced to the retained wetlands or the new natural inland wetland required by Condition 3 above, by the water used for augmentation. For the purposes of this consent, "biological contaminant" is defined as any naturally

occurring aquatic organism that when discharged to water adversely changes or is likely to adversely change the physical, chemical, or biological condition of water.

10. Within one week of the commencement of augmentation of wetland water levels required by Condition 8, and every 4 weeks thereafter while the discharge is occurring, manually monitor the augmentation discharge to demonstrate compliance with the discharge parameters set out in Condition 9 above.

11. Should the monitoring required by Condition 10 show a significant reduction in the parameters set out in condition 9, the Consent Holder shall initiate management measures to address the reductions which could include, but not be limited to, a change to the source of augmentation water and/or alteration to augmentation flow rates and/or alteration to the methods of discharge of augmentation water to the wetland(s).

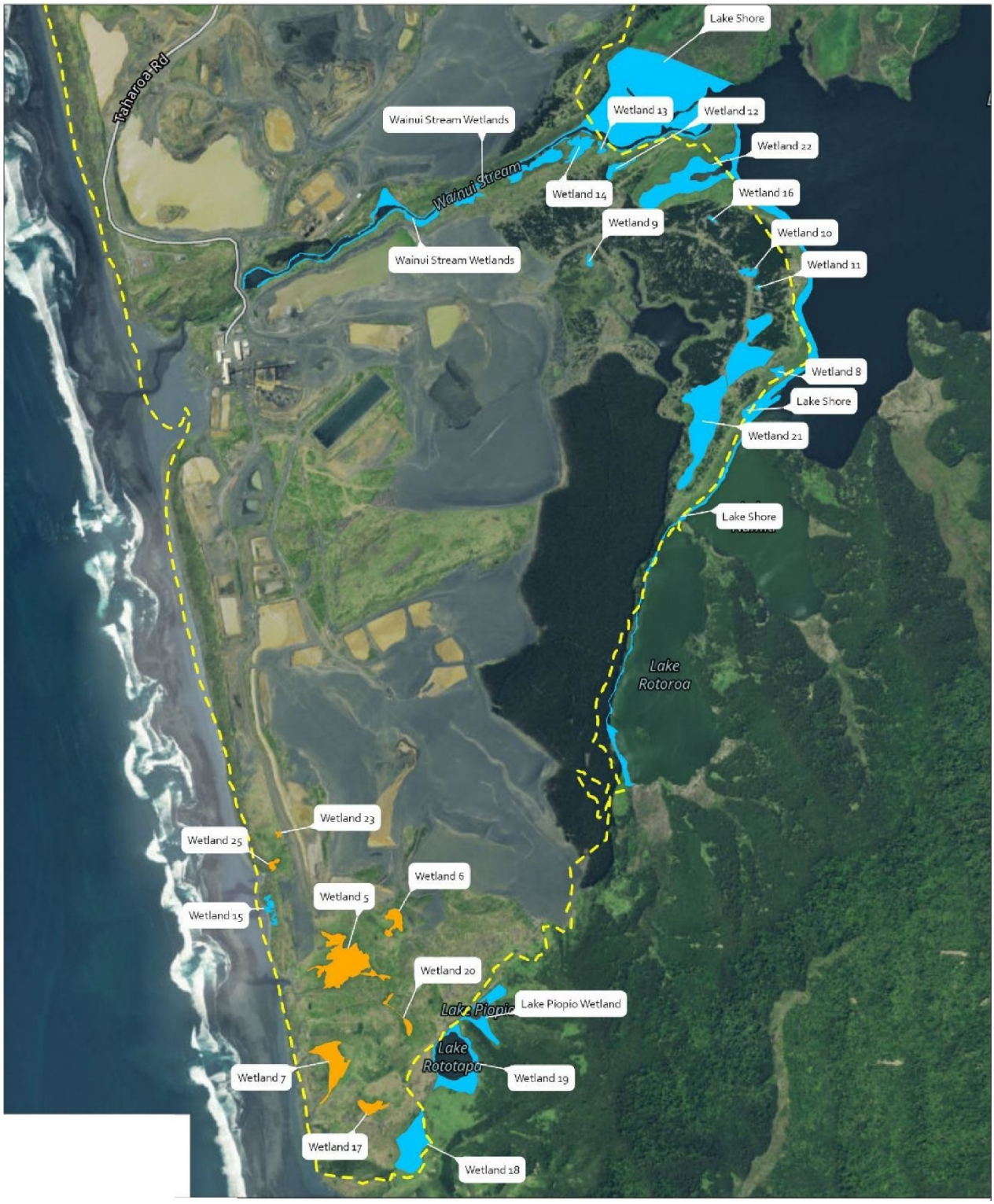

Lake Shore
Tahaaroa Rd
Wainui Stream Wetlands
Wetland 13
Wetland 12
Wetland 22
Wainui Stream
Wetland 14
Wetland 16
Wetland 9
Wetland 10
Wainui Stream Wetlands
Wetland 11
Wetland 8
Lake Shore
Wetland 21
Lake Shore
Lake Rotoroa
Wetland 23
Wetland 25
Wetland 6
Wetland 5
Wetland 15
Wetland 20
Lake Piopio Wetland
Lake Rototapu
Wetland 7
Wetland 19
Wetland 17
Wetland 18

Figure 1

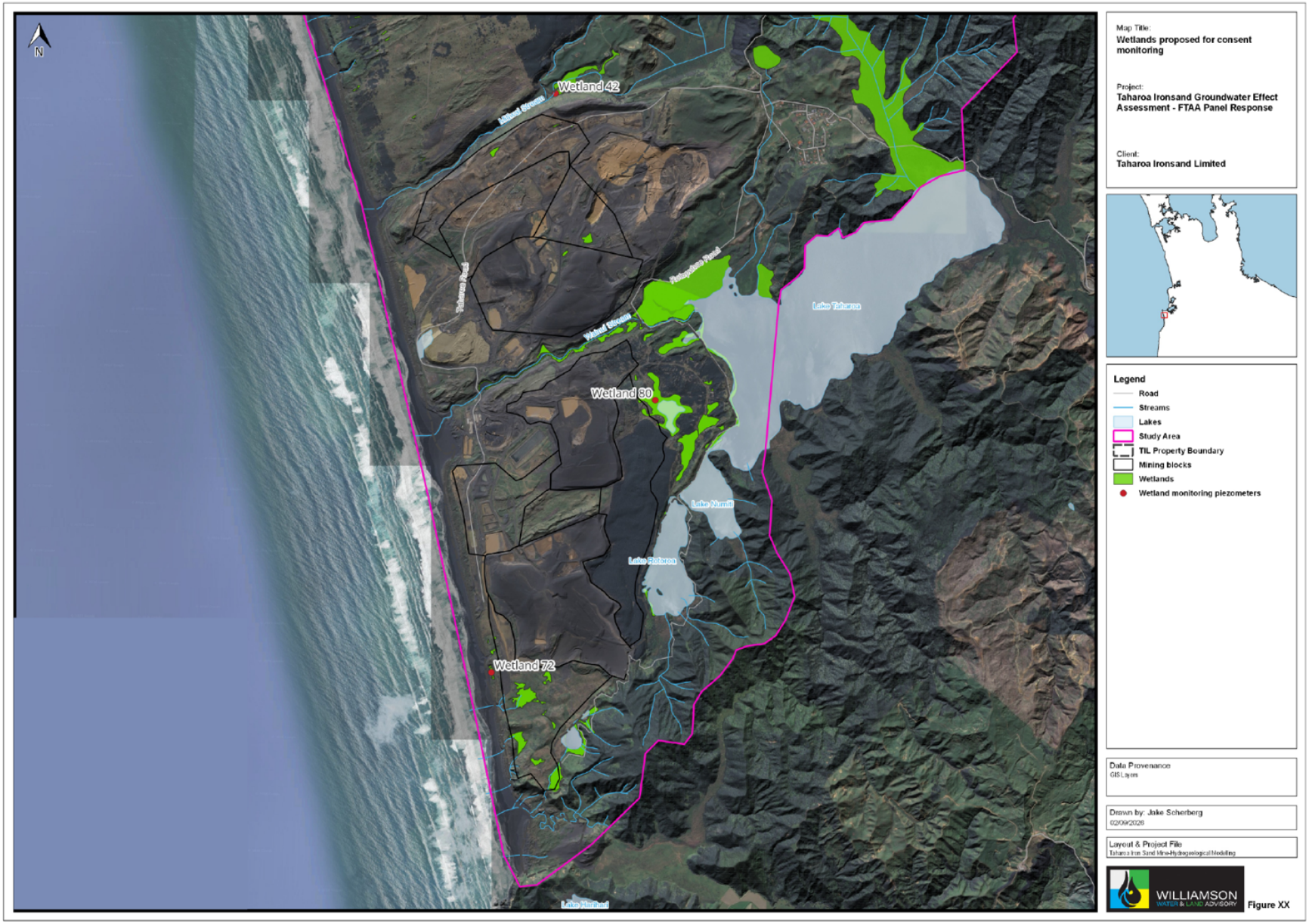

N
Wetland 42
Wetland 80
Wetland 72
Lake Taharoa
Lake Rotoroa
Lake Hardhard
Map Title:
Wetlands proposed for consent monitoring
Project:
Taharoa Ironsand Groundwater Effect Assessment - FTAA Panel Response
Client:
Taharoa Ironsand Limited
Legend
Road
Streams
Lakes
Study Area
TIL Property Boundary
Mining blocks
Wetlands
Wetland monitoring piezometers
Data Provenance
GIS Layers
Drawn by: Jake Scherberg
02/09/2026
Layout & Project File
WILLIAMSON
WATER & LAND ADVISORY
Figure XX

Figure 2

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 to Waikato Regional Council, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water permits, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.*

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 s332 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.*

7. *If at any time during the resource consent period, you no longer require your consent, it may be surrendered, in whole or part, by giving written notice of such to the consent authority. Alternatively, please contact Resource Use staff on 0800 800 402 and we can provide you with a surrender form. Note that the surrender takes formal effect when you receive a notice of acceptance of the surrender from the Council.*

Resource Consent
Certificate

Resource Consent Number: AUTH142035.17.01 (Earthworks & Forestry Harvesting)

File Number: 60 40 32A

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

Taharoa Ironsands Limited
PO Box 308
Wellington 6140

(hereinafter referred to as the Consent Holder)

Consent type: Land Use Consent

Consent subtype: Land Disturbance

Activity authorised: Undertake earthworks, discharge of sediment, and forestry harvesting in a red zone of Land Use Capability Class 8e land as per regulation 71 of the NES-CF.

Location: Taharoa Road - Taharoa

Map Reference: NZMS 260 R16:605-354

Consent duration: This consent will expire 35 years from the date of decision notification.

Consent Lapse: This consent will lapse 35 years from the date of decision notification.

Subject to the conditions overleaf:

CONDITIONS

General

1. The forestry harvesting activity authorised by this resource consent must be undertaken in stages and in general accordance with the Harvest and Earthworks Management Plan ("HEMP") and any succeeding revisions required by Condition 4 or as a result of material changes to the current certified HEMP.

2. A copy of this consent must be kept on site at all times that physical works authorised by this consent are being undertaken and must be produced without unreasonable delay upon request from an officer of the Waikato Regional Council.

3. The Consent Holder must be responsible for all contracted operations related to the exercise of this resource consent and must ensure contractors are made aware of the conditions of this resource consent and ensure compliance with those conditions.

4. A copy of the HEMP, including any certified amendments, must be kept on site and must be updated within five (5) working days of any amendments being certified.

Pre-Start

5. A minimum of five (5) working days before works are to begin, the Consent Holder must inform Waikato Regional Council via email about when works are to begin.

6. The Consent Holder must appoint a representative prior to the exercise of this resource consent who must be the Waikato Regional Council's principal contact person regarding matters relating to this resource consent. The Consent Holder must inform the Waikato Regional Council of the representative's name and how they can be contacted, prior to this resource consent being exercised. Should that person change during the term of this resource consent, the Consent Holder must immediately inform the Waikato Regional Council and must also give written notice to the Waikato Region Council of the new representative's name and how they can be contacted.

Machinery

7. The Consent Holder must ensure that all machinery used in the exercising of this consent are cleaned prior to being transported to/from the Forest to ensure that all seed and/or plant matter has been removed and documented in accordance with the National Pest Control Agencies A series, best practice (Code A16) guidelines any subsequent updates or replacements.

8. All machinery used in the exercising of this consent must be operated in a manner which ensures that spillage of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing and maintenance. Refuelling and lubrication activities must be carried out away from any water body such that any spillage can be contained so that it does not enter natural waters.

Operational Conditions

9. The HEMP required by condition 1 of this consent shall include provision for:

    (a) Harvesting to proceed in stages; and
    (b) The establishment of fast growing existing trees around the margins of areas being harvested which are not proposed to be mined, as required in the opinion of a SQEP - ecology retained by the consent holder for the purpose of providing new bat roosting or foraging habitat.

10. Landings and designated slash storage areas must be located on stable land. Slash piles must be managed to remain stable and avoid the collapse of a slash pile or the ground under the slash pile.

11. The Consent Holder is to ensure:

    (a) There is to be no slash or debris stockpiled or stored within 100 metres of a lake edge.
    (b) There is to be no placement of spoil within proximity (30 metres) of water, or within gullies or on steeply sloping ground.
    (c) Existing indigenous vegetation within 30 metres of lake wetland and lake is to be retained and is not to be disturbed in any way.
    (d) Existing pine forest within 30 metres of lake wetland and lake is to be retained or replaced by fast-growing indigenous vegetation.
    (e) No forestry operations are to be undertaken during sustained heavy rainfall (which is defined as >18 mm in 20 minutes).

12. The Consent Holder must ensure slash is not deposited into a waterbody or onto land that would be covered by water during a 5% Annual Exceedance Probability (AEP) event. If such deposition occurs, then slash must be removed from the waterbody or the land covered by water during a 5% Annual Exceedance Probability (AEP) event, unless to do so would be unsafe, to avoid or subsequently remediate:

    (a) Blocking or damming of a waterbody;
    (b) Eroding river banks;
    (c) Significant adverse effects on aquatic life;
    (d) Damaging downstream infrastructure, property, or receiving environments

13. In any instance where sound wood from harvesting that has a length of over 2 metres and a large end diameter of over 10cm is left on red zone land in volumes greater than $15m^3$/ha, the Consent Holder must document the spatial extent and assess the scale of potential hazard risk and if required, associated mitigation options. This documentation is to be submitted to Waikato Regional Council annually.

    Advice note: Sound wood is defined as wood that can be safely lifted using harvesting equipment and transferred to a landing without degrading or breaking up.

14. There is to be no discharge of sediment or woody debris/slash from forest harvesting activities to Lake Rotoroa or wetlands.

15. The Consent Holder must ensure that sediment losses to any other natural waters arising from the exercise of this resource consent are minimised, and that after reasonable mixing, does not give rise to any of the following effects on receiving waters:

    (a) Any conspicuous change in colour or visual clarity;
    (b) The rendering of fresh water unsuitable for consumption by farm animals;
    (c) Any significant adverse effect on aquatic life;
    (d) The diversion or damming of any water body;
    (e) Degradation of the aquatic habitat, riparian zone, freshwater body, or coastal environment; or
    (f) Damage to downstream infrastructure and properties.

    Advice note: Erosion and sediment control measures must be established and maintained in accordance with the Forest Practice Guides 'Erosion and Sediment Control Measures' (version2.0, January 2020) and subsequent updates or replacements, and the certified operational plans.

16. The Consent Holder must ensure that stormwater is diverted and discharged away from slash pile storage areas as outlined in the HEMP.

Bat Effects Management

17. Bat Roost Protocols as published by the Department of Conservation shall be adhered to for the removal of any vegetation >15cm diameter at breast height, that may offer the potential for bat roosting. Specifically, this shall involve:

    (a) Removal of any vegetation and/or trees that are identified as potential bat roosts by a SQEP – ecology must be completed in accordance with and implementation of the "DOC Protocols for minimising the risk of felling occupied bat roosts", Version 2 - October 2024, or a more recent version. This will be achieved through acoustic surveys, direct observation of trees prior to their removal, and/or by managing the time (month) of removal.
    (b) For any potential bat roost trees, clearance shall occur between October 1st and April 30th, inclusive, when bats are more active and bat roosts are more likely to be detected if present. Limitations with respect to suitable weather conditions as detailed in the DOC protocols also apply.
    (c) Pre-felling acoustic monitoring and/or climbing inspections of trees will be required for the removal of any potential bat roost trees to ensure no bats are occupying trees prior to felling.
    (d) Any living bat/s found during or after tree removal that are not able to fly away unassisted shall be taken to a vet immediately for assessment. Specific protocols shall be followed for handling and transporting injured bat/s in accordance with best practice methodologies.

18. Any lighting required as part of harvesting operations shall, as far as practicable (whilst ensuring compliance with workplace health and safety requirements) incorporate the following requirements:

    (a) Lighting shall be used for the minimum period of time necessary.
    (b) Lighting of the minimum required intensity shall be used.
    (c) Only the object or area intended shall be illuminated – keep lights close to the ground, directed to the ground and shielded from above.
    (d) Avoidance of blue rich or white LED lights, and use of lights with reduced or filtered blue, violet and ultra-violet wavelengths, with a colour temperatures of less than 2700K.

Review

19. At any time during the period July through September inclusive each year, the Waikato Regional Council may, following service of notice on the Consent Holder, commence a review of the conditions of this consent pursuant to section 128(1) of the Resource Management Act 1991 for the following purposes:

    (a) to review the effectiveness of the conditions of these resource consents in avoiding or mitigating any adverse effects on the environment and if necessary;
    (b) to avoid, remedy or mitigate such effects by way of further or amended conditions; and/or if necessary and appropriate;
    (c) to require the holder of this resource consent to adopt the best practicable option to remove or reduce adverse effects on the surrounding environment, and/or
    (d) to review the adequacy of monitoring undertaken by the Consent Holder

Administration

20. The Consent Holder must pay to the Waikato Regional Council an administrative charge fixed in accordance with section 36 of the Resource Management Act 1991, or any charge prescribed in accordance with the regulations made under section 360 of the Resource Management Act 1991.

SCHEDULE 1: General Conditions

Resource consents AUTH142035.01.01, AUTH142035.02.01, AUTH142035.03.01, AUTH142035.05.01, AUTH142035.06.01, AUTH142035.07.01, AUTH142035.08.01, AUTH142035.09.01, AUTH142035.11.01, AUTH142035.12.01, AUTH142035.13.01, AUTH142035.14.01, AUTH142035.15.01, AUTH142035.16.01 and AUTH142035.17.01 (collectively referred to in this Schedule as "**the Consents**") are subject to the following General Conditions that shall apply to each individual consent. Where there may be differences or apparent conflict between the General Conditions and conditions contained in the individual consents contained within this suite, the conditions contained in the respective individual consents shall prevail. Unless otherwise specified these consents have a lapse period of 2 years.

Reference in these General Conditions to "Waikato Regional Council" in relation to written approval or certification of any matter, or the forming of an opinion for the purpose of compliance where a judgment is required, shall mean the Chief Executive Officer of the Waikato Regional Council or their delegate.

Waikato Regional Council written approval or certification shall be limited to documents or management plans (or parts thereof) prepared under the Resource Management Act 1991 and shall not apply to documents or management plans that are the subject of approval under other legislation.

Where any of the conditions refer to a written approval or certification required from the Waikato Regional Council, the following process will be followed:

(a) The Consent Holder must submit a request for approval in writing:
(i) setting out what approval is sought and under what consent number and condition; and
(ii) detailing how the outcome is consistent with the relevant condition(s) of the consent.

(b) In giving or withholding its approval, Waikato Regional Council will be limited to a technical assessment that sufficient information has been provided to demonstrate that the matter for which approval has been requested meets the requirements of the relevant condition including any required environmental outcome.

General

1. The activities that are the subject of the Consents shall be carried out in general accordance with the "Taharoa Ironsands Mine Central and Southern Blocks – Substantive Application" dated October 2025" prepared by Tonkin & Taylor Ltd except where otherwise identified in subsequent conditions of the Consents. Should the application documents and conditions be in conflict then the conditions of these consents shall prevail.

2. The Management Plans that must be prepared in accordance with these conditions must be prepared generally in accordance with any draft management plans enclosed to the Substantive Application.

3. The Consent Holder must ensure that all areas, structures and activities authorised by the Consents are constructed and managed in accordance with current and accepted engineering practices.

4. The Consent Holder must ensure that whenever relevant, all staff and contractors are made aware of the conditions of this resource consent and ensure compliance with those conditions.

Complaints Register

5. The Consent Holder must maintain and keep a register of complaints that the Applicant has reasonable knowledge of) regarding all aspects of operations at the site related to the exercise of the Consents (including within the Coastal Marine Area), received by the Consent Holder.

6. Upon receiving a direct complaint, the Consent Holder must acknowledge the complaint and record the complaint in the register:

   (a) the date, time and duration of the event that has resulted in a complaint;
   (b) the location of the complainant when the event (if possible, specify nature of incident) was detected;
   (c) description of all activities being carried out on site at the time of the complaint;
   (d) the possible cause of the event;
   (e) if it is a dust complaint, the meteorological conditions and PM_{10} concentrations at all relevant monitoring stations, when the event allegedly occurred;
   (f) any additional monitoring or investigations undertaken as a result of the complaint and any corrective action undertaken by the Consent Holder in response to the complaint;
   (g) where relevant, the steps to be taken in future to prevent recurrence of similar events;
   (h) any follow up actions, notification and reports to WRC and the complainant; and
   (i) any other relevant information.

7. The register must be available to the Waikato Regional Council at all reasonable times. Complaints received by the Consent Holder must be forwarded to the Waikato Regional Council in writing within 48 hours of the complaint being received.

Operation of Machinery

8. All machinery operated shall be operated in a manner which ensures that spillages of fuel, oil and similar contaminants are prevented as far as practicable from entering any perennial waterbody, particularly during refuelling and machinery servicing and maintenance. Refuelling and lubrication activities shall be carried out away from any water body such that any spillage can be contained so it does not enter stormwater drainage systems or surface watercourses.

Responsibility for Structural Integrity, Erosion Control and Maintenance

9. The Consent Holder shall be responsible for the design, structural integrity and maintenance of the sand mining areas, batters, overburden disposal areas, stockpiles, earthworks, tracking and any associated works within the site.

10. The Consent Holder shall be responsible for any erosion control works that become necessary to preserve the integrity and stability of the landscape and/or to control erosion as a result of the exercise of these resource consents and shall ensure that any effects on natural watercourses are minimised or remedied as soon as practicable.

11. The Consent Holder shall ensure that sediment losses to natural water arising from the exercise of these resource consents are minimised during any construction works and mining activity undertaken as part of these resource consents. To this end, appropriate sediment control practices shall be undertaken which are in general accordance with the document prepared by the Waikato Regional Council titled “Erosion and Sediment Control – Guidelines for Soil Disturbing Activities” dated January, 2009 (or as amended or replaced) unless agreed otherwise with Waikato Regional Council.

12. Any bare surfaces that result from mining activity shall be vegetated and/or recontoured in an appropriate manner consistent with the methodology and timeframes set out in the Site Rehabilitation Plan required pursuant to Condition 21 of this Schedule and Condition 14 of Resource Consent AUTH142035.01.01.

Environmental Management Plan

13. The Consent Holder shall manage its consented activities in accordance with an overarching Environmental Management Plan (**EMP**), prepared by a SQEP with advice and input from technical experts who are suitably qualified and experienced in the relevant field of expertise. The objectives of the EMP are to:

    (a) avoid, remedy or mitigate the actual and/or potential adverse effects of mining operations at the site and once mining has concluded.
    (b) set out the practices and procedures to be adopted to address the potential adverse effects of mining activities on ecological and indigenous biodiversity values at the site.
    (c) set out the practices and procedures to be adopted to ensure compliance with the conditions of consents held for activities in the Coastal Marine Area.

14. The EMP must include as a minimum:

    (a) details regarding site roles and responsibilities relating to environmental management.
    (b) a risk register of effects being managed through the EMP.
    (c) an overview of the construction, implementation, operational, monitoring, maintenance and contingency procedures to be followed during mining activities on land and activities authorised in the Coastal Marine Area.
    (d) identification and storage of hazardous substances kept on site, and measures for preventing and responding to spills on site including methodology for disposal of any contaminated materials.
    (e) identification and storage of waste materials on site, including measures to prevent windblown sand covering items.
    (f) identification of areas of HAIL activities.
    (g) summaries of ecological and other baseline surveys undertaken on site, against which the results of future surveys can be assessed.
    (h) measures for the protection of threatened species on land and within the Coastal Marine Area.
    (i) the component plans and chapters set out in Conditions 16-22 below and the Wainui Stream Enhancement Plan. The component plans may be prepared as chapters of the EMP or be attached as Appendices to the EMP.
    (j) plan review and reporting mechanisms, both overall and specific to each of the management plans that form a component of the EMP.
    (k) performance measures, actions, methods, trigger levels and monitoring programmes designed to achieve the EMP objectives specified above including incorporation of matauranga Māori and cultural health indicators
    (l) All measures for marine mammal protection set out in Table 3 of Appendix GG to the application, updated on no less than a 5 yearly basis (from the commencement of consents) to ensure best management practices for marine mammal protection remain up to date over the duration of the consent.

15. The Consent Holder shall undertake the development of, and any material amendments to, the EMP in consultation with the Department of Conservation, The Proprietors of Taharoa C Block Incorporated, Taharoa Lake Trustees, Te Ruunanga o Ngaati Mahuta ki te Hauaauru, Te Kooraha Marae, Aaruka Marae and the Waikato Regional Council.

Consultation must be undertaken at the inception of the EMP development process and include the input of suitably qualified and experienced mātauranga Māori experts from within mana whenua engaged by the Consent Holder. Such input is required for the EMP and these consent conditions:

(a) Conditions 4 and 8 of AUTH142035.03.01 in relation to fish pass monitoring and the review of Wainui Stream Enhancement Plan.
(b) Condition 8 of AUTH142035.05.01 in relation to wetland monitoring;
(c) Condition 7 of AUTH142035.16.01 in relation to wetland monitoring; and
(d) All relevant sections of the NIWBMP required by Schedule 1 Condition 16 where the development or ongoing monitoring of matauranga Māori and cultural health indicators is required or involved;

The EMP must include a record of the consultation undertaken with these parties, including a summary of any comments received and the Consent Holder's responses.

Natural Inland Wetland and Buffer Management Plan

16. The Consent Holder must prepare a Natural Inland Wetland and Buffer Management Plan (NIWBMP) in accordance with the NIWBMP (version 5.0 8 September 2026), except as modified by the conditions of this Schedule 1, the objective of which is to avoid, minimise, or remedy the adverse effects of mining activity on the natural inland wetlands identified on and adjacent to the site, and to offset the adverse effects of the loss of natural inland wetlands on the site. The NIWBMP shall include:

(a) the methods for monitoring and reporting on the extent and health of the wetlands on the margins of Lake Tahāroa adjoining the Taharoa C Block as required by Condition 10 of AUTH142035.05.01.
(b) identification of land to be included in the management of pests which shall include all 30m buffer areas required by Condition 7 of AUTH142035.01.01 and the new natural inland wetland habitat required by Condition 3 of AUTH142035.16.01, a list of target pest species (which shall include at minimum rats, possums and mustelids, and all pest plant and weed species referred to in section 6.0 of section of NIWBMP version 5.0 (dated 8 September 2026)), methods to achieve target species outcomes and a description of monitoring/surveillance proposed in accordance with standard accepted pest management practice; and
(c) management actions to minimise, remedy, offset or compensate for the loss of natural inland wetlands – which shall include a requirement to establish and maintain a minimum of 8.3 ha of new wetland on the site (in the form of creating entirely new wetland habitat or augmenting existing constructed wetland(s) meeting the requirements of conditions 3 to 5 of AUTH142035.16.01).
(d) Appropriate mātauranga Māori and cultural health indicators and provision for ongoing participation in the monitoring and review of such indicators by suitably qualified and experienced mātauranga Māori experts from within mana whenua, engaged by the Consent Holder for that purpose.
(e) methods to minimise drawdown effects on retained wetlands in accordance with Conditions 5 to 11 of AUTH142035.16.01, including to ensure that the standards for augmentation as set under condition 6 (a) (Table 2) of that permit are met.
(f) methods to ensure any machinery arriving from off-site is properly cleaned and decontaminated to reduce the chance of introducing pest plant propagules.
(g) Details of the plant and tree species (which shall include but not be limited to manuka and kanuka, along with matai and provision for large trees such as kahikatea to provide roosting and foraging habitat for bats) to be planted and/or maintained within the 30m buffer areas required by Condition 7 of AUTH142035.01.01 and the new natural inland wetland habitat required by Condition 3 of AUTH142035.16.01

(h) Methods that are effective to ensure grazing animals (including cattle, pigs deer and horses) are excluded from all 30m buffer areas required by Condition 7 of AUTH142035.01.01, and the fencing of the 30m buffer area for the new natural inland wetland habitat required by condition 3 of AUTH142035.16.01.

Lake Level and Water Management Plan

17. The Consent Holder must prepare a Lake Level and Water Management Plan , the objective of which is to set out how the minimum lake level of 9.0 mRL, as required by Condition 7 of AUTH142035.05.01, will be complied with, how the residual flow in the Wainui Stream, set out in the relevant conditions of the Consents will be achieved, and measures to monitor and maintain the fish pass. The Lake Level & Water Management Plan shall at minimum include:

    (a) Details of how the residual flow in the Wainui Stream and in the fish pass will be monitored and maintained in accordance with the conditions of AUTH142035.03.01, including during periods of:

        (i) low flows;
        (ii) water abstraction for mining operations;
        (iii) ship loading;
        (iv) fish migration.

    (b) Details of the monitoring programme required in accordance with the conditions of AUTH142035.03.01 to ensure the ongoing effectiveness of the fish pass at providing passage for juvenile inanga, smelt, long-finned eel, short-finned eel and juvenile and adult eels and grey mullet.
    (c) Steps that can be taken to reduce TIL's water take if monitoring of the raupo and flax wetlands on the margins of Lake Taharoa (as described in the NIWBMP) identifies adverse effects on the environment that need to be mitigated.
    (d) Other procedures to ensure that all consent condition requirements with regards to monitoring and measurement of the level of Lake Taharoa and any consequential actions are complied with.

Dust Management Chapter

18. The Consent Holder must prepare a dust management chapter, the objective of which is to avoid offensive or objectionable dust discharges and dust related effects from the mining operations on the site in accordance with the requirements of AUTH142035.01.01, including the preparation of the MOSRP. The dust management chapter shall be prepared or reviewed by a SQEP – air and shall, as a minimum, include:

    (a) identification of the principal dust generating activities and main potential sources of dust emission;
    (b) identification of sensitive receptors potentially affected by dust emissions and specific management procedures for activities undertaken within 200 metres of those receptors;
    (c) a description of the dust mitigation mechanisms which will be deployed on site (including watering, vehicle speed controls, management of exposed surfaces, stockpiles and other dust-generating activities), including an inventory of relevant equipment, materials and relevant operating procedures and procedures for the inspection, maintenance and availability of dust-control equipment and PM_{10} trigger levels for the implementation of dust suppression measures, and contingency procedures;
    (d) procedures for minimising the extent and duration of exposed and unstabilised surfaces, cross-referenced to the progressive stabilisation and rehabilitation required by Condition 14 of AUTH 01.01;

(e) for mining activities undertaken in proximity to the Roy Wetini Homestead, the dust mitigation measures, monitoring procedures and contingency measures to be implemented, including measures to minimise the duration of mining and the extent of exposed surfaces in that area.
(f) monitoring procedures, records to be kept and a process for review and reporting where required;
(g) procedures for monitoring meteorological conditions and identifying periods of elevated dust risk;
(h) procedures for the operation, maintenance, calibration, data capture and validation of the PM_{10} monitoring network in accordance with the manufacturer's instructions and relevant Ministry for the Environment good-practice guidance, including the establishment and application of appropriate site-specific correction factors for non-reference PM_{10} monitors;
(i) PM_{10} and meteorological trigger levels for the implementation of additional dust mitigation measures;
(j) contingency measures to be implemented where elevated PM_{10} concentrations are recorded, adverse meteorological conditions occur, or normal dust control measures are ineffective;
(k) short-term stop-work trigger levels for PM_{10} concentrations and meteorological conditions at which relevant dust-generating activities, excluding dust suppression activities, must cease;
(l) procedures for automated alerts, investigation of trigger level exceedances and implementation of corrective actions;
(m) the methodology for determining, reviewing and applying the k-factor to the non-reference PM_{10} monitoring network established in accordance with Condition 26 of consent AUTH 142035.01.01 , including the frequency of review and any criteria for updating the correction factor.
(n) procedures for investigating and responding to dust complaints;
(o) staff responsibilities, training requirements and associated records; and
(p) monitoring, record-keeping, reporting and review procedures.

19. The Dust Management Chapter shall be reviewed at least annually and, where necessary, updated to reflect improvements in good practice. It shall also be reviewed following any material change in the location, staging or nature of mining activities and/or where PM_{10} monitoring indicates that existing dust management measures or trigger levels require amendment or following a significant dust event or recurring dust complaints. Any material amendments shall be prepared or reviewed by a SQEP – air and submitted to Waikato Regional Council for certification prior to implementation.

Erosion and Sediment Chapter

20. The Consent Holder must prepare an Erosion and Sediment Control chapter, the objective of which is to identify the processes which have a risk of causing erosion or stormwater runoff to sensitive habitats and identify the management procedures and protocols for managing those potential effects. The Erosion and Sediment Control chapter shall at minimum include the following:

(a) Procedures which will be followed to meet the conditions of the Consents relating to water discharge quality.
(b) Construction, implementation, operational, monitoring, maintenance and contingency procedures and protocols to be followed to minimise sediment losses to natural water while conducting general mining activities including;

(i) earthworks,
(ii) tracking,
(iii) haul road construction,
(iv) overburden disposal,

(v) vegetation removal, and
(vi) diversions of stormwater and seepage (including that from rehabilitated areas).

(c) Processes to be followed before holding ponds are constructed or utilised within 100m of the boundary with any properties containing dwellings located within 100m of the boundary. These processes will include undertaking groundwater monitoring using piezometers downgradient of any holdings ponds for a period of three months, or use of a quantitative groundwater model, in advance of utilising those holding ponds and will include triggers for ceasing use of those ponds.

Site Rehabilitation Plan

21. The Consent Holder must prepare a Site Rehabilitation Plan, the objective of which is to set out the rehabilitation goals, targets and success criteria to be followed in order to achieve the future landforms and groundcovers detailed within the Conceptual Site Closure Plan (see Condition 22 below) and, including:

(a) The procedures for progressive interim and final rehabilitation.

(i) a schedule of native and exotic species to be used for interim and final rehabilitation;
(ii) details of the site preparation and plant establishment measures for proposed planting;
(iii) providing for habitat suitable for NZ pipit, bittern and long tailed bats;
(iv) procedures for the establishment of appropriate planting within the coastal setback (being a minimum of 100 metres landward of Mean High Water Springs); and
(v) details of areas proposed to be temporarily and permanently contoured, including as areas of open sand dunes.

(b) A timeline for interim rehabilitation (including stabilisation using, but not limited to, kikuyu, marram grass or native grass species) of the areas within 200 metres from the Consent Area boundary once mining has been completed.
(c) A description of permanent rehabilitation of completed mining areas in the Te Ake Ake mining cell (which includes the Priority Stabilisation Area) in the north of the Central Block adjacent to the Mitiwai Stream, including methods that seek to provide visual screening of mining operations in the Central Block from the Wetini Homestead as required by Condition 18 of AUTH142035.01.01.
(d) Procedures for pest control and any post-closure measures.
(e) Procedures to monitor and report to Waikato Regional Council on progress made in delivering the procedures and measures required by the Site Rehabilitation Plan
(f) Input from a SQEP in landscape architecture, who shall advise on landform and groundcover, taking into account the requirements of the Conceptual Site Closure Plan. The Site Rehabilitation Plan shall include a summary of the landscape architects recommendations and how they have been incorporated into the Site Rehabilitation Plan.

Conceptual Site Closure Plan

22. The Consent Holder must prepare a Conceptual Site Closure Plan, the objective of which is to detail the future landforms and the nature and extent of groundcover following the conclusion of all mining activities. The Conceptual Site Closure Plan must:

(a) Include a description of the intended future landforms and groundcovers across the Consent Area, taking into account historical landforms.
(b) Include measures to protect existing Māori reserves and ensure access for customary cultural practices is not prevented in the long term.

(c) Identify processes to confirm the fate of any structures and other mining infrastructure (e.g. whether it will be left in-situ, removed and whether any resource consents may be required).
(d) Outline the closure and removal offsite of waste material stockpiles.
(e) Identify the procedures and measures to be undertaken to meet the requirements for restoration of HAIL activity areas.
(f) Be prepared with input from a SQEP in landscape architecture, who shall advise on future landforms and groundcovers across the site, taking into account historical landforms. The Conceptual Site Closure Plan shall include a summary of the landscape architect's recommendations and how they have been incorporated into the Conceptual Site Closure Plan.

Certification

23. The EMP including its component plans shall be submitted to Waikato Regional Council for review and certification within twelve months of the commencement date of these consents.

24. Within 60 working days of receipt of the EMP for certification, the Waikato Regional Council shall notify the Consent Holder as to whether the EMP is certified. In the event that certification of the EMP is withheld, the Waikato Regional Council shall advise the Consent Holder of what matters are required to be addressed.

25. The Consent Holder must implement and comply with the requirements of the certified EMP and its component plans, and any iterations of the EMP that may be certified in accordance with conditions 26 and 27.

26. The Consent Holder shall review the EMP including its component plans every 5 years from the date of commencement of this consent, within 6 months of any variation of conditions being granted and within 6 months of any decision to cease mining at the site. Any update of the EMP shall take into account:

(a) any recommendations of the Waikato Regional Council.
(b) any required actions or modifications to management practices identified as a result of monitoring under the Consents.
(c) any changes required as a result of actions identified in an Annual Works Plan.

27. Any revision of the EMP including its component plans shall be submitted to the Waikato Regional Council for review and approval by the Waikato Regional Council, acting in a technical certification capacity. Within 48 hours of any certification or revision, the certified plan (or plans) will be made available on the website required by Condition 40 below.

28. A copy of the latest version of the EMP shall be kept on site at all times and all key personnel shall be made aware of its contents.

Avi-Fauna Effects Management

29. Between 1 September – 31 January (inclusive), prior to vegetation clearance within wetland, grassland and shrubland habitat, a SQEP – ecology shall undertake surveys for wetland birds, NZ dotterels and NZ pipit. If a wetland bird, NZ dotterel or NZ pipit nest containing eggs or chicks is discovered, vegetation clearance is prohibited within 30 metres of the nest, until fledging occurs or as directed by a SQEP – ecology.

30. The Consent Holder shall prepare and implement an accidental discovery protocol for wetland birds, NZ dotterel and NZ pipit in consultation with a SQEP – ecology. The protocols shall include:

(a) procedures for briefing relevant staff and contractors on how to identify NZ dotterel and NZ pipit and their nests; and
(b) requirements for halting work and establishment of appropriate buffer areas around discovered NZ dotterel and NZ pipit nests.

31. A copy of the wetland bird, NZ dotterel and NZ pipit accidental discovery protocol must be kept onsite at all times that physical works authorised by this consent are being undertaken.

32. The Consent Holder must ensure all contractors are made aware of and comply with the content of the wetland bird, NZ dotterel and NZ pipit accidental discovery protocol.

33. In the event of emergency pipeline repairs or emergency works within known or potential dotterel nesting habitat in the CMA, the Consent Holder shall implement the following measures to avoid or minimise impacts on nesting dotterels, to the extent feasible during an emergency response:

(a) Establish a temporary exclusion zone of at least 30 metres around any identified nest, until fledging occurs or as directed by a SQEP – ecology.
(b) Implement the accidental discovery protocol for NZ dotterel and NZ pipit.

Communication

34. The Consent Holder shall convene consultation meetings to enable the stakeholders listed in condition 38 to provide feedback and comment on resource management matters relating to the operation of the mine including the finalisation of the EMP. These meetings shall be convened every six months following the commencement date of these consents for the first five years and thereafter at yearly intervals.

35. The Consent Holder shall provide a venue and shall prepare an agenda for each consultation meeting required by Condition 34, which shall only address resource management matters, and include reporting and monitoring undertaken in accordance with the Consents in the period since the previous consultation meeting.

36. The Consent Holder shall invite the following groups to participate in the consultation meeting required by Condition 34: Proprietors of Taharoa C Block Incorporated, Taharoa Lake Trustees, Te Ruunanga o Ngaati Mahuta ki te Hauaauru, Te Kooraha Marae, Aaruka Marae, John David Keepa Kupa Whaanau Trust, Te Huia Pihopa Trust, Roy Wetini Whaanau Trust, Tukotahi Tutaeo Whaanau Trust and the Department of Conservation. One representative from each group may attend each consultation meeting.

37. The Consent Holder shall prepare minutes relating to each consultation meeting required by Condition 34, recording attendance, main topics of discussion and any outcomes, and these shall be forwarded to the Waikato Regional Council within 20 working days of any meeting.

38. The Consent Holder must maintain and keep a register of all consultation undertaken with external parties, during the term of these consents. The register shall include at least the following:

(a) the name and/or organisation of the party consulted;
(b) the subject matter of the consultation;
(c) the date and time of the consultation; and
(d) a record of the key points discussed during the consultation and any actions arising.

39. The consultation register must be available to the Waikato Regional Council at all reasonable times and an annual summary of the consultation register shall be provided to Waikato Regional Council.

40. The Consent Holder shall establish a public website which is to include the following (subject to commercial sensitivity constraints as applicable):

(a) The current Annual Works Plan;
(b) The certified Environmental Management Plan for the site;
(c) Annual monitoring reports;
(d) Current and historical (i.e. from date of commencement of consent):

    (i) Details and records of monthly water abstracted from the Wainui Stream;
    (ii) Details and records of monthly stormwater discharged into the Tasman Sea;
    (iii) Monthly water levels in Lake Taharoa and rainfall data;
    (iv) PM_{10} and meteorological monitoring data.

Annual Works Plan

41. The Consent Holder shall, before the final day of May each year, provide Waikato Regional Council with an Annual Works Plan which shall, in relation to the next 12 months, document the following information:

    (a) map the areas to be mined;
    (b) map and quantify the areas to be rehabilitated and/or stabilised, including those required by the MOSRP;
    (c) map and site register of waste material stockpiled on site;
    (d) map and site register of HAIL activities;
    (e) specify the nature of proposed stabilisation;
    (f) specify the nature of proposed rehabilitation including the contour (heights and shape), vegetation cover, and maintenance of plantings;
    (g) describe any significant maintenance activities;
    (h) describe any proposed works, including maintenance works which have been carried out in the prior 12 months on the pipelines and mooring buoy in the Coastal Marine Area;
    (i) describe any operational changes or improvements to be implemented;
    (j) specify any wetland monitoring to be undertaken, including monitoring that is required in advance of mining planned over the 12-month period following the 12 month period covered by Annual Works Plan, to detect groundwater drawdown effects on potentially affected wetlands before they occur ; and
    (k) include the MOSRP.

42. The Annual Works Report shall also report on progress for the last 12 months to demonstrate compliance with Conditions 14 and 16 of AUTH142035.01.01

Annual Monitoring Report

43. The Consent Holder shall prepare and submit to the Waikato Regional Council an Annual Monitoring Report by 1 August each year that the consent is current. The monitoring period to be included in each report shall be for the 12-month period ending 30 June. A copy shall also be provided to the Department of Conservation, the Proprietors of Taharoa C Block Incorporated, Taharoa Lake Trustees, Te Ruunanga o Ngaati Mahuta ki te Hauaauru, Te Kooraha Marae, Aaruka Marae, and the Waikato Regional Council.

44. As a minimum the Annual Monitoring Report shall:

    (a) Detail all environmental monitoring undertaken.
    (b) Summarise all the data and information required to be collected by these consents, including for the purposes of demonstrating compliance with the conditions of consent(s) related to the quality and composition of water used for stream and wetland augmentation purposes. this should include graphical presentation, statistical summations of monitoring data and critical analysis of the information in terms of compliance and environmental effects.
    (c) Highlight and discuss any significant environmental results or trends.

(d) Detail rehabilitation works undertaken in the previous 12-month period as well as proposed rehabilitation works for the following 12-month period.
(e) Set out any reasons for non-compliance or difficulties in achieving compliance with the conditions of the consents and measures adopted to rectify problems.
(f) List any works that have been undertaken to improve the environmental performance of the site or that are proposed to be undertaken in the up-coming year.
(g) If necessary, recommend alterations to the monitoring required, including review of the monitoring site locations and recommended changes (if any) that would result in improved environmental performance.
(h) Review the mining operations in light of monitoring results to identify any changes in the operation that would result in improved environmental performance.
(i) Report on and discuss any complaints received regarding the operation of the site.
(j) Report on and discuss feedback received from any consultation meetings held with interested parties.
(k) Include any other matters or findings considered important by the Consent Holder.

Bond

45. Throughout the duration of the Consents, a rehabilitation bond shall be provided by or on behalf of the Consent Holder and maintained in favour of the Waikato Regional Council to:

(a) Secure compliance with the conditions of this consent relating to on-going rehabilitation and closure of the Central and Southern Blocks of the Mine;
(b) Ensure the completion of rehabilitation and closure in accordance with the approved Site Rehabilitation Plan and final Site Closure Plan;
(c) Enable the Council to undertake monitoring of any adverse effect on the environment that may arise from the exercise of the consent until completion of closure of the site.

46. The rehabilitation bond may be a cash bond or a guarantee provided by a bank or other party on behalf of the Consent Holder, and shall, subject to these conditions, be on the terms and conditions required by the Council.

47. Unless the rehabilitation bond is a cash bond, the performance of all of the conditions of the bond shall be guaranteed by a bank or other guarantor acceptable to the Council. The guarantor shall bind itself to pay for the carrying out and completion of the requirements set out in Condition 45 in the event of any default of the Consent Holder.

48. Within four months of the commencement of the Consent, the Consent Holder shall provide a report to Council recommending the bond amount (Bond Report) including:

(a) A breakdown of estimated costs (and any contingencies) to complete rehabilitation, in accordance with the conditions of the Consents, of any areas that as at the date of the report, have been disturbed and are due to be rehabilitated and are proposed to be disturbed in the following three-year period.
(b) A breakdown of estimated costs to complete site closure in accordance with the conditions of the Consents, following rehabilitation of the areas proposed in accordance with Condition 48(a);
(c) A breakdown of the estimated costs of monitoring, in accordance with the conditions of the Consents, until site closure has been completed (assuming that is to take place subsequently to rehabilitation being completed in accordance with Condition 48(a);
(d) A description of the methodology used in the above estimates, consistent with Condition 51 below;
(e) Any supporting information, including from the Site Rehabilitation Plan and Conceptual Site Closure Plan; and

(f) Any other information that the Consent Holder considers relevant to fixing the amount of the rehabilitation bond.

49. The amount of the rehabilitation bond shall be fixed by the Council within four months of receiving the report required by Condition 48. The amount of the bond must be reasonable and not overly onerous. In fixing the bond, the Council shall take into account the Bond Report, the Consent conditions, the Site Rehabilitation Plan and Conceptual Site Closure Plan and any other matters submitted by the Consent Holder which are relevant to the determination of the amount.

50. The amount of the bond may be reviewed every three years from the date that the previous bond is fixed by the Council and shall commence on the issuing of a notice by Waikato Regional Council to provide the report required by Condition 48.

51. The amount of the bond must be set to achieve the purposes set out in Condition 45 of this Schedule above and be based on the following principles:

(a) The estimated costs (including any contingencies necessary) of rehabilitation and site closure in accordance with the conditions of this consent shall be based on the area disturbed or proposed to be disturbed over the following three years, to reflect that the bulk of the rehabilitation costs depend on the size of an open pit (and the associated costs to in-fill, stabilise, contour and undertake any planned planting);
(b) The bond shall take into account the availability of on-site material (e.g. tailings and sand) that reduce the need for imported fill or rehabilitation materials;
(c) Where possible, costs shall be based on recent actual costs incurred by the Consent Holder;
(d) The bond shall include any further sum which the Council consider necessary to secure compliance with the rehabilitation and site closure conditions of the Consents; and
(e) The estimated costs of monitoring, in accordance with the monitoring conditions of this Consent, to the completion of site closure.

52. Should the Consent Holder dispute any aspect of the bond fixed by the Council:

(a) The Consent Holder shall, within two weeks of receipt of the Council's notification of the Bond, provide the Council with a written notice (**Dispute Notice**) that:

(i) outlines the aspect(s) of the bond that the Consent Holder disputes; and
(ii) refers the matter to mediation.

(b) The parties shall use their best endeavours to agree on a mediator within one week of the Council receiving the notice Dispute Notice. If the parties cannot agree, a mediator shall be appointed by the President of the Arbitrators' and Mediators' Institute of New Zealand. The parties shall bear the mediator's fees equally.
(c) If the dispute is not resolved through mediation within 90 days of the mediator's appointment (or such longer period as the parties may agree) the Consent Holder shall refer the dispute to arbitration by providing written notice (**Arbitration Notice**). The arbitration shall be conducted in accordance with the provisions of the Arbitration Act 1996. If the parties cannot agree upon an arbitrator within a week of the Council receiving the Arbitration Notice from the Consent Holder, then an arbitrator shall be appointed by the Arbitrators' and Mediators' Institute 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 Council agree that time shall be extended. The parties shall bear their own costs in relation to the arbitration and bear the arbitrator's fees equally.

53. Pending the outcome of the dispute resolution process in Condition 52 above and subject to Condition 54 below, the existing bond shall continue in force. That sum shall be adjusted in accordance with any agreement reached at mediation or arbitral award granted.

54. If, for any reason other than default of the Council, the decision of the arbitrator is not made available by the 30th day referred to above, then the amount of the bond shall be the sum previously fixed by the Council in relation to the Central and Southern blocks of the Mine, until such time as the arbitrator does make his/her decision. At that stage the new amount shall apply.

55. The bond may be varied, cancelled, or renewed at any other time by agreement between the Consent Holder and the Council provided that cancellation will not be agreed to unless a further or new bond acceptable to the Council is available to replace immediately that which is to be cancelled (subject however to the condition below as to release of the rehabilitation bond on the completion of closure of the site to the Council' satisfaction).

56. The Council shall release the bond on the completion of closure of the site.

57. "Completion of closure of the site" means when the elements of the entire project have been demonstrated by the Consent Holder to the satisfaction of the Council to have reached a stable, self-sustaining, rehabilitated state as anticipated in the final Site Closure Plan and any water discharging from the site, and any ground water under and around the site, will be of a quality such that it will not adversely affect aquatic life, or other users of the water resource as defined by the approved Site Rehabilitation Plan.

58. All costs relating to the rehabilitation bond shall be paid by the Consent Holder, excluding any costs incurred by the Council in obtaining independent advice in relation to the calculation of the bond, or the costs of arbitration (which shall lie where they fall).

59. The Consent Holder will make the necessary changes for the existing bond provided by the Consent Holder in respect of the Central and Southern Blocks of the Mine under consents 100899 – 100910, 111002, 122562 - 122567, to remain in place and secure performance with the requirements of Condition 45 until a new rehabilitation bond is fixed in accordance with the above conditions. The Consent Holder shall make the necessary changes to the existing bond within two months of the commencement of the Consents.

Review

60. During the six-month period following the commencement of consents and in the same period every five years thereafter, the Waikato Regional Council may serve notice on the Consent Holder under section 128 (1) of the Resource Management Act 1991, of its intention to review the conditions of the Consents for any of the following purposes:

    (a) To review the effectiveness of the conditions of the Consents in avoiding or mitigating any adverse effects on the environment and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions;
    (b) If necessary and appropriate, to require the holder of this resource consent to adopt the best practicable option to remove or reduce adverse effects on the surrounding environment due to the discharge of groundwater and/or stormwater to surface water or discharges to air;
    (c) To adopt any necessary or appropriate changes to consent conditions regarding groundwater management resulting from any reports filed (or annual reporting) in relation to situations where the groundwater drawdown contours referred to in Permit AUTH 142035.14.01 are exceeded;
    (d) To review the performance of the Wainui Stream fish pass and any current or required mitigation measures relating to the fish pass;

(e) To review the adequacy of and the necessity for monitoring undertaken by the Consent Holder in light of previous monitoring and/or changes in site operations;

(f) To review the consistency of conditions of this consent with future changes to any National Environmental Standard, National Policy Statement, or change to the Waikato Regional Policy Statement, Waikato Regional Plan or Waikato Regional Coastal Plan and, if necessary, to address any inconsistency of the conditions of this consent by way of further or amended conditions.

Advice note: Costs associated with any review of the conditions of this resource consent will be recovered from the Consent Holder in accordance with the provisions of section 36 of the Resource Management Act 1991.

Administrative

61. 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 the Resource Management Act.

Transitional Provisions

62. Where the conditions of resource consents AUTH142035.01.01, AUTH142035.02.01, AUTH142035.03.01, AUTH142035.05.01, AUTH142035.06.01, AUTH142035.07.01, AUTH142035.08.01, AUTH142035.09.01, AUTH142035.11.01, AUTH142035.12.01, AUTH142035.13.01, AUTH142035.14.01, and AUTH142035.15.01 require new or revised/updated management plans to be submitted to Waikato Regional Council for certification and thereafter be implemented, the Consent Holder shall continue to undertake mining and ship loading activity under the provisions of the Management Plans in place at the date of commencement of these consents until such time as the new management plans are certified by Waikato Regional Council.

63. Where the conditions of resource consents AUTH142035.01.01, AUTH142035.02.01, AUTH142035.03.01, AUTH142035.05.01, AUTH142035.06.01, AUTH142035.07.01, AUTH142035.08.01, AUTH142035.09.01, AUTH142035.11.01, AUTH142035.12.01, and AUTH142035.13.01, AUTH142035.14.01, and AUTH142035.15.01 require new physical works to be undertaken or existing works ceased in any particular location, or new/altered equipment to be installed at the site, the Consent Holder shall (where the consent conditions do not specify a compliance timeframe) ensure that such new works are undertaken, existing works ceased or equipment installed/altered as soon as reasonably practicable after the commencement date of these consents, and in any event not longer than 3 years after the commencement of these consents.

SCHEDULE 2: Common Coastal Marine Area Conditions

Resource consents AUTH142035.09.01, AUTH142035.11.01, AUTH142035.12.01 and AUTH142035.13.01 (**Consents**) are subject to the following conditions, which shall apply to each individual consent. Where there are differences or apparent conflict between the following Common CMA Conditions and conditions contained in either the individual consents listed above, the conditions contained in the respective individual consents shall prevail.

Reference in these Common CMA Conditions to "Waikato Regional Council" shall mean the Chief Executive Officer of the Waikato Regional Council or their delegate.

Notification

1. The Consent Holder shall ensure that the Hydrographic Office of Land Information New Zealand and Maritime New Zealand has written notice of the location of the structures authorised by the Consents within three months of the commencement of the Consents to which this schedule relates.

Environmental Protection

2. The Consent Holder shall be responsible for implementing the best practicable option so as to minimise damage to the foreshore, seabed and surrounding environment from activities authorised by this condition.

Archaeological Discovery

3. In the event that taonga are discovered when undertaking activities authorised by the Consents, the Consent Holder shall:

    (a) immediately cease works in the vicinity of the discovery;
    (b) immediately secure the area in a manner to ensure that the material remains untouched;
    (c) contact local kaumatua nominated in accordance with the Archaeological Authority (No. 2026-587) as soon as possible and within 24 hours to confirm the discovery; and
    (d) notify Heritage New Zealand/Pouhere Taonga within 48 hours.

4. In the event that koiwi or archaeological remains are discovered during vegetation clearance, overburden removal or other mining operations, the Consent Holder shall:

    (a) immediately cease works in the vicinity of the discovery.
    (b) immediately secure the area in a manner to ensure that the material remains untouched.
    (c) contact local kaumatua nominated in accordance with the Archaeological Authority (No. 2026-587) and the Police as soon as possible and within 24 hours to confirm the discovery;
    (d) arrange for a Police Pathologist to assess the koiwi or remains to confirm their origin;
    (e) if koiwi are found, notify the Waikato Regional Council, nominated kaumatua, and Heritage New Zealand/Pouhere Taonga within 48 hours.
    (f) provide an opportunity for the nominated kaumatua to undertake a karakia or other cultural activity as is appropriate.

Structural Integrity

5. The Consent Holder shall ensure that all structures authorised by resource consents AUTH142035.09.01 and AUTH142035.11.01 are constructed and maintained in accordance with current and accepted engineering practices.

6. The Consent Holder shall maintain all structures in the Coastal Marine Area authorised by these consents so that where practicable no part of the structures is lost (e.g. breaks loose due to water, wind or wave action) or results in a navigational hazard. Any material that is lost from the structures shall, as soon as possible, be retrieved by the Consent Holder. Should the material lost be a hazard to navigation, Maritime New Zealand and Waikato Regional Council shall be immediately informed.

7. The Consent Holder shall be responsible for the structural integrity and maintenance of the structures and for any works that become necessary to preserve the integrity and stability of the structures and/or to control erosion as a result of the exercise of this resource consent.

Advice note: Additional resource consent may be required as a result of the need to undertake further works. Any such consent shall be obtained by the Consent Holder at their sole expense prior to any works being undertaken.

Operation of Machinery

8. All machinery shall be operated in a manner that ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing and maintenance. Where practicable, refuelling and lubrication activities shall be carried out away from any water body such that any spillage can be contained so it does not enter the Coastal Marine Area or any waterway. For lubrication activities taking place at the buoy, these shall be carried out in such a way as to minimise any spillage into the Coastal Marine Area.