

WestSide New Zealand Ltd

Rimu Production Station Monitoring Programme Annual Report 2023/24 Technical Report 2024-88

Taranaki Regional Council Private Bag 713 Stratford

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Executive summary

WestSide New Zealand Ltd (the Company) operates a hydrocarbon production station located on Mokoia Road at Mokoia, in the Manawapou catchment.

This report for the period July 2023 to June 2024 describes the monitoring programme implemented by Taranaki Regional Council (the Council) to assess the Company's environmental and consent compliance performance during the period under review. The report also details the results of the monitoring undertaken and assesses the environmental effects of the Company's activities.

During the monitoring period, WestSide New Zealand Ltd demonstrated a high level of environmental performance and high level of administrative performance.

The Company holds two resource consents, which include a total of 26 conditions setting out the requirements that the Company must satisfy. The Company holds one consent to allow it to discharge treated stormwater onto and into land and into an unnamed tributary of the Manawapou River, and one consent to discharge contaminants into the air at this site.

The Council's monitoring programme for the year under review included one inspections of the Rimu Production Station and an annual inspection of associated wellsites. The site was shut down until further notice in August 2022, as a result monitoring was reduced to a minimum during the 2023/24 monitoring period.

The monitoring showed that the site was tidy and well managed and that any stormwater discharge was not likely to have an adverse effect on the water quality of the unnamed tributary of the Manawapou River.

For reference, in the 2023/24 year, consent holders were found to achieve a high level of environmental performance and compliance for 864 (89%) of a total of 967 consents monitored through the Taranaki tailored monitoring programmes, while for another 75 (8%) of the consents a good level of environmental performance and compliance was achieved. A further 26 (3%) of consents monitored required improvement in their performance, while the remaining two (<1%) achieved a rating of poor.

In terms of overall environmental and compliance performance by the consent holder over the last several years, this report shows that the consent holder's performance remains at a high level.

This report includes recommendations for the 2024/25 year.

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1. Introduction

1.1 Compliance monitoring programme reports and the Resource Management Act 1991

1.1.1 Introduction

This report is for the period July 2023 to June 2024 by Taranaki Regional Council (the Council) on the monitoring programme associated with resource consents held by WestSide New Zealand Ltd (the Company). The Company operates a hydrocarbon production station situated on Mokoia Road at Mokoia, in the Manawapou catchment.

The report includes the results and findings of the monitoring programme implemented by the Council in respect of the consents held by the Company that relate to discharges of water within the Manawapou catchment, and the air discharge permit to cover emissions to air from the site. This report is the 23rd annual report by the Council for the Rimu Production Station.

1.1.2 Structure of this report

Section 1 of this report is a background section. It sets out general information about:

- consent compliance monitoring under the Resource Management Act 1991 (RMA) and the Council's obligations;
- the Council's approach to monitoring sites though annual programmes;
- the resource consents held by the Company in the Manawapou catchment;
- the nature of the monitoring programme in place for the period under review; and
- a description of the activities and operations conducted at the Rimu Production Station.

Section 2 presents the results of monitoring during the period under review, including scientific and technical data.

Section 3 discusses the results, their interpretations, and their significance for the environment.

Section 4 presents recommendations to be implemented in the 2024/25 monitoring year.

A glossary of common abbreviations and scientific terms, and a bibliography, are presented at the end of the report.

1.1.3 The Resource Management Act 1991 and monitoring

The RMA primarily addresses environmental 'effects' which are defined as positive or adverse, temporary or permanent, past, present or future, or cumulative. Effects may arise in relation to:

- a. the neighbourhood or the wider community around an activity, and may include cultural and socialeconomic effects;
- b. physical effects on the locality, including landscape, amenity and visual effects;
- ecosystems, including effects on plants, animals, or habitats, whether aquatic or terrestrial;
- natural and physical resources having special significance (for example recreational, cultural, or aesthetic); and
- e. risks to the neighbourhood or environment.

In drafting and reviewing conditions on discharge permits, and in implementing monitoring programmes, the Council is recognising the comprehensive meaning of 'effects' in as much as is appropriate for each activity. Monitoring programmes are not only based on existing permit conditions, but also on the obligations of the RMA to assess the effects of the exercise of consents. In accordance with Section 35 of the RMA, the Council undertakes compliance monitoring for consents and rules in regional plans, and maintains an overview of the performance of resource users and consent holders. Compliance monitoring, including both activity and impact monitoring, enables the Council to continually re-evaluate its approach and that of consent holders to resource management and, ultimately, through the refinement of methods and considered responsible resource utilisation, to move closer to achieving sustainable development of the region's resources.

1.1.4 Evaluation of environmental performance

Besides discussing the various details of the performance and extent of compliance by the consent holders, this report also assigns a rating as to each Company's environmental and administrative performance during the period under review. The rating categories are high, good, improvement required and poor for both environmental and administrative performance. The interpretations for these ratings are found in Appendix II.

For reference, in the 2023/24 year, consent holders were found to achieve a high level of environmental performance and compliance for 864 (89%) of a total of 967 consents monitored through the Taranaki tailored monitoring programmes, while for another 75 (8%) of the consents a good level of environmental performance and compliance was achieved. A further 26 (3%) of consents monitored required improvement in their performance, while the remaining two (<1%) achieved a rating of poor.¹

1.2 Process description

The Rimu Production Station (Photo 1) receives oil and gas recovered from the Rimu, Kauri and Manutahi wells and includes condensate, gas and LPG processing plants. The oil and gas are separated and treated to produce condensate for export from the site, gas suitable for export into Vector's pipeline and LPG for sale and export. Construction started in May 2001 and the plant was commissioned between February and April 2002.

The Rimu Production Station is situated on Mokoia Road, between the coast and State Highway 3, south east of Hawera. The production station covers approximately 6ha on an area of 9.5ha of land leased by the Company. The land is situated on top of a coastal terrace. The closest residential dwelling is approximately 800m from the production station. The surrounding land use is largely pastoral.

Stormwater from the production station, including potentially contaminated stormwater from the production area and tank storage area, is treated through an API separator and then directed into a polyethylene lined storage pond located at the southern edge of the site. The pond has a storage capacity of 3,600m³ and it serves as a settlement pond and a fire water source in the event of an emergency. Water from the stormwater pond is discharged by pipe onto land to the east of the site where it flows into an unnamed tributary of the Manawapou River.

The production station and associated wellsites were divested to WestSide New Zealand Ltd on 1 November 2016 from Origin Energy Resources NZ Ltd.

¹ The Council has used these compliance grading criteria for more than 20 years. They align closely with the 4 compliance grades in the MfE Best Practice Guidelines for Compliance, Monitoring and Enforcement, 2018

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The Rimu Production Station is currently not being used, with pipework holding low pressure nitrogen/air as an internal moth balling preservative. The site may be required in future if proposed drilling campaigns relating to the Kauri field go ahead.



Photo 1 Rimu Production Station

1.3 Resource consents

The Company holds two resource consents the details of which are summarised in the table below. Summaries of the conditions attached to each permit are set out in Section 3 of this report.

A summary of the various consent types issued by the Council is included in Appendix I, as are copies of all permits held by the Company during the period under review.

Table 1 Summary of consents held by WestSide New Zealand Ltd for the Rimu Production Station

Consent number	Purpose	Granted	Review	Expires
5744-2	To discharge treated stormwater from the Rimu Production Station onto and into land and into an unnamed tributary of the Manawapou River	November 2016	June 2028	June 2034
5746-2	To discharge contaminants into the air from the Rimu Production Station, including flaring and miscellaneous emissions	November 2016	June 2028	June 2034

1.3.1 Related consents

The Company also holds consents for production activities at wellsites associated with the Rimu Production Station. Details of these consents are summarised in Table 2. Consents marked with an * are currently being renewed, and continue to operate under s124.

Table 2 Consents for production activities at wellsites associated with the Rimu Production Station

Wellsite	Consent number	Purpose	Issue date	Expiry
	5730-1	To discharge treated stormwater and treated site water from hydrocarbon exploration and production operations at the Kauri Te Pakakohi-A wellsite onto and into land	Dec 2000	2022*
Kauri-A	5731-2	To discharge contaminants to air from hydrocarbon exploration at the Kauri -A wellsite, including combustion involving flaring of petroleum recovered from natural deposits together with miscellaneous emissions from the site, in association with well development or redevelopment and testing or enhancement of well head production flows	Dec 2023	2038
	11151-1	To discharge emissions to the air associated with hydrocarbon producing wells at the Kauri-A Wellsite	Dec 2023	2038
Kauri-A & F	6129-2	To discharge emissions (at either the Kauri-F or Kauri-A wellsites) to air associated with hydrocarbon producing wells at the Kauri-F Wellsite	Dec 2023	2038
Kauri-C	5928-2	To discharge treated stormwater from hydrocarbon exploration and production operations from the Kauri-C wellsite onto and into land	Nov 2016	2034
Kauri-F	6130-1	To discharge emissions to air from flaring associated with production activities and miscellaneous emissions at the Kauri-F wellsite	Feb 2003	2022*
	6140-2	To discharge emissions to air associated with hydrocarbon producing wells at the Kauri-E Wellsite	Dec 2023	2038
Kauri-E	6141-1	To discharge treated stormwater, uncontaminated treated site water and uncontaminated treated production water from hydrocarbon exploration and production operations at the Kauri-E Wellsite onto and into land and into the Mangaroa Stream	Apr 2003	2022*
	6299-2	To discharge emissions to air associated with hydrocarbon producing wells at the Manutahi-A Wellsite	Dec 2023	2038
Manutahi-A	6300-1	To discharge treated stormwater and treated produced water from hydrocarbon exploration and production operations at the Manutahi-A wellsite onto and into land in the vicinity of an unnamed tributary of the Mangaroa Stream	Apr 2004	2022*
	6305-2	To discharge emissions to air associated with hydrocarbon producing wells at the Manutahi-B Wellsite	Dec 2023	2038
Manutahi-B	6306-1	To discharge treated stormwater and treated produced water from hydrocarbon exploration and production operations at the Manutahi-B wellsite onto and into land in the vicinity of an unnamed tributary of the Mangaroa Stream	Apr 2004	2022*
Manutahi-D	6317-2	To discharge emissions to air associated with hydrocarbon producing wells at the Manutahi-D Wellsite	Dec 2023	2038

Wellsite	Consent	nsent Purpose		Expiry
VVCIISILE	number	i ui pose	Issue date	LAPITY
	6318-1	To discharge treated stormwater and treated produced water from hydrocarbon exploration and production operations at the Manutahi-D wellsite onto and into land in the vicinity of an unnamed tributary of the Mangaroa Stream	Apr 2004	2022*
Manutahi-G	6335-2	To discharge emissions to air associated with hydrocarbon producing wells at the Manutahi-G Wellsite	Dec 2023	2038
Manutahi-G	6336-1	To discharge treated stormwater and treated produced water from hydrocarbon exploration and production operations at the Manutahi-G wellsite onto and into land in the vicinity of an unnamed tributary of the Mangaroa Stream	Jun 2004	2022*
Rimu-A	5322-2	To discharge treated stormwater from hydrocarbon exploration and production operations at the Rimu-A wellsite onto land and into an unnamed tributary of the Manawapou River	Nov 2016	2034
Rimu-A	5324-2	To discharge contaminants to air from hydrocarbon exploration at the Rimu-A wellsite, including combustion involving flaring or incineration of petroleum recovered from natural deposits, in association with well development or redevelopment and testing or enhancement of production flows	Nov 2016	2034
	5625-1	To discharge treated stormwater and treated site water from hydrocarbon exploration and production operations at the Rimu-B wellsite onto and into land and into an unnamed tributary of the Manawapou River	Jun 2000	2022*
Rimu-B	5626-2	To discharge contaminants to air from hydrocarbon exploration at the Rimu-B wellsite, including combustion involving flaring of petroleum recovered from natural deposits together with miscellaneous emissions form the site, in association with well development or redevelopment and testing or enhancement of well head production flows	Dec 2023	2038
	11152-1	To discharge emissions to air associated with hydrocarbon producing wells at the Rimu-B wellsite	Dec 2023	2038
Pohutukawa-A	6749-1	To discharge treated stormwater and treated produced water from hydrocarbon exploration and production operations at the Pohutukawa-A wellsite onto and into land in the vicinity of the Waikaikai Stream	Nov 2005	2022*
	6751-2	To discharge emissions to air associated with hydrocarbon producing wells at the Pohutukawa-A Wellsite	Dec 2023	2038

1.4 Monitoring programme

1.4.1 Introduction

Section 35 of the RMA sets obligations upon the Council to gather information, monitor and conduct research on the exercise of resource consents within the Taranaki region. The Council is also required to assess the effects arising from the exercising of these consents and report upon them.

The Council may therefore make and record measurements of physical and chemical parameters, take samples for analysis, carry out surveys and inspections, conduct investigations and seek information from consent holders.

The monitoring programme for the Rimu Production Station consisted of three primary components.

1.4.2 Programme liaison and management

There is generally a significant investment of time and resources by the Council in:

- ongoing liaison with resource consent holders over consent conditions and their interpretation and application;
- discussion over monitoring requirements;
- preparation for any consent reviews, renewals or new consent applications;
- advice on the Council's environmental management strategies and content of regional plans; and
- consultation on associated matters.

1.4.3 Site inspections

The Rimu Production Station and associated wellsites were visited once during the monitoring period. With regard to consents for the discharge to water, the main points of interest were plant processes with potential or actual discharges to receiving watercourses, including contaminated stormwater and process wastewaters. Air inspections focused on plant processes with associated actual and potential emission sources and characteristics, including potential odour, dust, noxious or offensive emissions. Sources of data being collected by the Company were identified and accessed, so that performance in respect of operation, internal monitoring, and supervision could be reviewed by the Council. The neighbourhood was surveyed for environmental effects.

2. Results

2.1 Water

2.1.1 Inspections

An inspection of the Rimu Production Station, along with an inspection of the wellsites associated with the production station was undertaken on 19 October 2023.

The Rimu Production Station was no longer operating. Appropriate bunding was in place and no issues were noted in regard to stormwater management.

An inspection of the wellsites associated with the Rimu Production Station was carried out to check for compliance with resource consent conditions. Wellsites inspected were; Manutahi-A, B, C, D, and G; Kauri-A, C, D, E and F; Pōhutukawa-A; and Rimu-A and B. In general, the sites were tidy and clean with minimal activity occurring. The sites were being maintained with weed spraying evident on some sites. The majority of ring drains were vegetated with grasses that helped with controlling and treating sediment laden stormwater. Hydrocarbon sheens were not observed within the skimmer pits or in puddles on any of the sites. The skimmer pits were in various states with some having been overwhelmed by sand and sediment. The majority of skimmer pits were unlined and empty. The majority of the discharges were onto land with some then flowing to surface water. No effects were noted in the grass (such as burnt patches or dead grass) or within the streams. Flaring from the sites was not occurring at the time of inspection. No visual effects were noted as a result of previous flaring on the sites.

Work was taking place at Manutahi-D to demobilise the site, with preparation for removal of the storage tank from the site. Manutahi-C and Kauri-D had been reinstated. A concrete lip had been added to the top of the ring drain at Kauri-E, along with coconut matting lining. The skimmer pit had been lined and had a shut off valve.

2.2 Air

2.2.1 Inspections

Air inspections were carried out in conjunction with site inspections as discussed in section 2.1.1 above. No issues regarding air quality were noted during the monitoring period. Air monitoring was not carried out as the site was not in use.

2.2.2 Summary of flaring volumes reported by WestSide New Zealand Ltd

The Company usually provide the Council with an annual report on flaring and emissions as required by consent 5746-2. An annual report was not requested during the 2023/24 period as flaring was not undertaken at the Rimu Production Station.

2.3 Incidents, investigations, and interventions

The monitoring programme for the year was based on what was considered to be an appropriate level of monitoring, review of data, and liaison with the Company. During the year matters may arise which require additional activity by the Council, for example provision of advice and information, or investigation of potential or actual causes of non-compliance or failure to maintain good practices. A pro-active approach, that in the first instance avoids issues occurring, is favoured.

For all significant compliance issues, as well as complaints from the public, the Council maintains a database record. The record includes events where the individual/organisation concerned has itself notified the Council. Details of any investigation and corrective action taken are recorded for non-compliant events.

Complaints may be alleged to be associated with a particular site. If there is potentially an issue of legal liability, the Council must be able to prove by investigation that the identified individual/organisation is indeed the source of the incident (or that the allegation cannot be proven).

In the 2023/24 period, the Council was not required to undertake significant additional investigations and interventions, or record incidents, in association with the Company's conditions in resource consents or provisions in Regional Plans.

3. Discussion

3.1 Discussion of site performance

The Rimu Production Station was shut down in August 2022. The site is currently holding low pressure nitrogen/air as an internal moth balling preservative. Monitoring of the Rimu Production Station during the 2023/24 period was reduced to a minimum and will continue at a low level while the site is not operating.

3.2 Environmental effects of exercise of consents

The inspection did not indicate that any stormwater discharging from the unused site would have an adverse effect on the water quality of the unnamed tributary of the Manawapou River.

3.3 Evaluation of performance

A tabular summary of the consent holder's compliance record for the year under review is set out in Tables 3 and 4.

Table 3 Summary of performance for consent 5744-2.0

	Condition requirement	Means of monitoring during period under review	Compliance achieved?	
	Adoption of best practicable option to minimise adverse effects	Site inspections	Yes	
	Limit on stormwater catchment area	Site inspections	Yes	
3.	Preparation of contingency plan	Up-to-date as of January 2022	Yes	
ŀ.	Design and maintenance of stormwater system in accordance with information supplied	Site inspections	Yes	
5.	All discharges to flow to perimeter drain and skimmer pit	Site inspections	Yes	
ô.	Skimmer pit to have capacity of at least 3,600 m ³ and retain hydrocarbons	Site inspections	Yes	
7.	Skimmer pits and retention areas to be lined	Site inspections	Yes	
3.	Concentration limits upon potential contaminants in discharge	Not sampled during 2023/24	N/A	
9.	Limits on pH levels in skimmer pits and discharge	Not sampled during 2023/24	N/A	
0.	Effects not to occur in receiving waters beyond the established mixing zone	Not sampled during 2023/24	N/A	
11.	Effects not to occur in receiving waters beyond the established mixing zone	Not monitored during period under review	N/A	
12.	Notification prior to reinstatement of the site	Liaison with consent holder	N/A	
13.	Optional review provision re environmental effects	Option for review in June 2028	N/A	
Overall assessment of consent compliance and environmental performance in respect of this consent				

N/A = not applicable

Table 4 Summary of performance for consent 5746-2.0

Purpose: To discharge contaminants into the air from the Rimu Production Station, including flaring and miscellaneous emissions Compliance Condition requirement Means of monitoring during period under review achieved? 1. Adoption of best practicable option Yes Site inspections 2. Maintain log of all flaring incidents longer Flaring not undertaken during period under review N/A than five minutes 3. Provision of monthly flaring information Flaring not undertaken during period under review N/A Not requested (monthly reports were provided) 4. Annual report on flaring due August N/A 5. Record of smoke emitting incidents to be Not requested N/A provided on request 6. Analysis of typical gas and/or condensate Not requested N/A stream to be provided on request 7. Notification to Council of alterations to plant Liaison with consent holder Yes equipment, processes or operations 8. Notification to Council of flaring expected to Flaring not undertaken during period under review N/A last more than five minutes 9. No offensive odour, dust or smoke beyond Site inspections Yes the site boundary 10. No noxious or toxic levels of airborne Not assessed during period under review N/A contaminants at or beyond the site boundary 11. Limit on maximum ground level concentration of carbon monoxide, nitrogen dioxide, PM₁₀ Nitrogen dioxide monitoring undertaken N/A and sulphur dioxide 12. Limit on maximum ground level concentration Not monitored during period under review N/A of other contaminants 13. Optional review provision re environmental Next option for review in June 2028. N/A effects High Overall assessment of consent compliance and environmental performance in respect of this consent Overall assessment of administrative performance in respect of this consent

N/A = not applicable

Table 5 Evaluation of environmental performance over time

Year	Consent numbers	High	Good	Improvement req	Poor
2019/20	5744-2, 5746-2	2	-	-	-
2020/21	5744-2, 5746-2	2	-	-	-
2021/22	5744-2, 5746-2	2	-	-	-
2022/23	5744-2, 5746-2	2	-	-	-
2023/24	5744-2, 5746-2	2	-	-	-

High

During the year, the Company demonstrated a high level of environmental and administrative performance with the resource consents as defined in Appendix II.

3.4 Recommendations from the 2022/23 Annual Report

In the 2022/23 Annual Report, it was recommended:

- 1. THAT in the first instance, monitoring of consented activities at Rimu Production Station in the 2023/24 year be amended from that undertaken in 2022/23, by reducing inspections to once per year and discontinuing air monitoring.
- 2. THAT should there be issues with environmental or administrative performance in 2023/24, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

Recommendation one was implemented, while it was not considered necessary to carry out additional investigations or interventions as per recommendation two.

3.5 Alterations to monitoring programmes for 2024/25

In designing and implementing the monitoring programmes for air/water discharges in the region, the Council has taken into account:

- the extent of information already made available through monitoring or other means to date;
- its relevance under the RMA;
- the Council's obligations to monitor consented activities and their effects under the RMA;
- the record of administrative and environmental performances of the consent holder; and
- reporting to the regional community.

The Council also takes into account the scope of assessments required at the time of renewal of permits, and the need to maintain a sound understanding of industrial processes within Taranaki exercising resource consents.

The 2024/25 monitoring programme has been reduced to a minimum. Air quality monitoring has been programmed as provisional, to be carried out only if activity returns to the site. As there are still chemicals stored on site an annual site inspection and one water quality survey remain in the programme, along with the annual wellsite inspection.

It should be noted that the proposed programme represents a reasonable and risk-based level of monitoring for the site in question. The Council reserves the right to subsequently adjust the programme from that initially prepared, should the need arise if potential or actual non-compliance is determined at any time during 2024/25.

4. Recommendations

- 1. THAT in the first instance, monitoring of consented activities at Rimu Production Station in the 2024/25 year are reduced compared with 2023/24.
- 2. THAT should there be issues with environmental or administrative performance in 2024/25, monitoring may be adjusted to reflect any additional investigation or intervention as found necessary.

Glossary of common terms and abbreviations

The following abbreviations and terms may be used within this report:

Bund A wall around a tank to contain its contents in the case of a leak.

Conductivity Conductivity, an indication of the level of dissolved salts in a sample, usually

measured at 25°C and expressed in mS/m.

g/m³ Grams per cubic metre, and equivalent to milligrams per litre (mg/L). In water, this is

also equivalent to parts per million (ppm), but the same does not apply to gaseous

mixtures.

Incident An event that is alleged or is found to have occurred that may have actual or

potential environmental consequences or may involve non-compliance with a consent or rule in a regional plan. Registration of an incident by the Council does

not automatically mean such an outcome had actually occurred.

Intervention Action/s taken by Council to instruct or direct actions be taken to avoid or reduce

the likelihood of an incident occurring.

Investigation Action taken by Council to establish what were the circumstances/events

surrounding an incident including any allegations of an incident.

Incident Register The Incident Register contains a list of events recorded by the Council on the basis

that they may have the potential or actual environmental consequences that may

represent a breach of a consent or provision in a Regional Plan.

L/s Litres per second. m² Square Metres:

MfE Ministry for the Environment.

Mixing zone The zone below a discharge point where the discharge is not fully mixed with the

receiving environment. For a stream, conventionally taken as a length equivalent to

7 times the width of the stream at the discharge point.

mS/m Millisiemens per metre.

NES National Environmental Standards

O&G Oil and grease, defined as anything that will dissolve into a particular organic

solvent (e.g. hexane). May include both animal material (fats) and mineral matter

(hydrocarbons).

pH A numerical system for measuring acidity in solutions, with 7 as neutral. Numbers

lower than 7 are increasingly acidic and higher than 7 are increasingly alkaline. The scale is logarithmic i.e. a change of 1 represents a ten-fold change in strength. For

example, a pH of 4 is ten times more acidic than a pH of 5.

Physicochemical Measurement of both physical properties (e.g. temperature, clarity, density) and

chemical determinants (e.g. metals and nutrients) to characterise the state of an

environment.

Pigging Pigging is the practice of using devices known as pigs (or scrapers) to perform

various maintenance operations. This is done without stopping the flow of the product in the pipeline. These operations include, but are not limited to, cleaning

and inspecting the pipeline.

PM₁₀ Relatively fine airborne particles (less than 10 micrometre diameter).

Resource consent Refer Section 87 of the RMA. Resource consents include land use consents (refer

Sections 9 and 13 of the RMA), coastal permits (Sections 12, 14 and 15), water

permits (Section 14) and discharge permits (Section 15).

RMA Resource Management Act 1991 and including all subsequent amendments.

SS Suspended solids.

UI Unauthorised Incident.

For further information on analytical methods, contact a manager within the Environment Quality Department.

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Appendix I

Resource consents held by WestSide New Zealand

(For a copy of the signed resource consent please contact the TRC Consents department)

Water abstraction permits

Section 14 of the RMA stipulates that no person may take, use, dam or divert any water, unless the activity is expressly allowed for by a resource consent or a rule in a regional plan, or it falls within some particular categories set out in Section 14. Permits authorising the abstraction of water are issued by the Council under Section 87(d) of the RMA.

Water discharge permits

Section 15(1)(a) of the RMA stipulates that no person may discharge any contaminant into water, unless the activity is expressly allowed for by a resource consent or a rule in a regional plan, or by national regulations. Permits authorising discharges to water are issued by the Council under Section 87(e) of the RMA.

Air discharge permits

Section 15(1)(c) of the RMA stipulates that no person may discharge any contaminant from any industrial or trade premises into air, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Permits authorising discharges to air are issued by the Council under Section 87(e) of the RMA.

Discharges of wastes to land

Sections 15(1)(b) and (d) of the RMA stipulate that no person may discharge any contaminant onto land if it may then enter water, or from any industrial or trade premises onto land under any circumstances, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Permits authorising the discharge of wastes to land are issued by the Council under Section 87(e) of the RMA.

Land use permits

Section 13(1)(a) of the RMA stipulates that no person may in relation to the bed of any lake or river use, erect, reconstruct, place, alter, extend, remove, or demolish any structure or part of any structure in, on, under, or over the bed, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Land use permits are issued by the Council under Section 87(a) of the RMA.

Coastal permits

Section 12(1)(b) of the RMA stipulates that no person may erect, reconstruct, place, alter, extend, remove, or demolish any structure that is fixed in, on, under, or over any foreshore or seabed, unless the activity is expressly allowed for by a resource consent, a rule in a regional plan, or by national regulations. Coastal permits are issued by the Council under Section 87(c) of the RMA.

Discharge Permit Pursuant to the Resource Management Act 1991 a resource consent is hereby granted by the Taranaki Regional Council

Name of Westside New Zealand Limited

Consent Holder: Level 17

300 Queen Street Brisbane QLD 4000

Australia

Decision Date: 1 November 2016

Commencement Date: 1 November 2016

Conditions of Consent

Consent Granted: To discharge treated stormwater from the Rimu Production

Station onto and into land and into an unnamed tributary of

the Manawapou River

Expiry Date: 1 June 2034

Review Date(s): June 2022, June 2028

Site Location: Rimu Production Station, Mokoia Road, Mokoia

(Property owner: M & PD Hawken)

Grid Reference (NZTM) 1715980E-5610439N

Catchment: Manawapou

For General, Standard and Special conditions pertaining to this consent please see reverse side of this document

General condition

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

- 1. The consent holder shall at all times adopt the best practicable option, as defined in section 2 of the Resource Management Act 1991, to prevent or minimise any actual or likely adverse effect on the environment associated with the discharge of contaminants from the site.
- 2. Stormwater discharged shall be collected from a catchment area of no more than 6 Ha.
- 3. The consent holder shall maintain and regularly update a 'Contingency Plan' that details measures and procedures that will be undertaken to prevent, and to avoid environmental effects from, a spillage or any discharge of contaminants not authorised by this consent. The plan and any amended versions shall be provided to the Chief Executive of the Taranaki Regional Council.
- 4. Subject to the other conditions of this consent the design, management and maintenance of the stormwater system shall be undertaken in accordance with the information submitted in support of the application for this consent.
- 5. All discharges from the site, including from any containment pit or hydrocarbon combustion facility (e.g. flare pit, thermal oxidiser), shall flow to a perimeter drain and skimmer pit. Perimeter drains shall be designed, including by having a positive grade and low permeability, to ensure that runoff flows directly to a skimmer pit without ponding.
- 6. The skimmer pit system shall have a combined capacity of no less than 3600 m³ including a 'freeboard' of no less than 1000 m³, and be designed to retain any hydrocarbons that enter them.
- 7. All skimmer pits and any other stormwater retention areas shall be lined with an impervious material to prevent seepage through the bed and sidewalls, and the stormwater system shall be designed to prevent any discharge of contaminants from the site.
- 8. Subject to condition 9 the constituents in the discharge shall meet the standards shown in the following table.

<u>Constituent</u>	<u>Standard</u>
pH	Within the range 6.0 to 9.0
suspended solids	Concentration not greater than 100 gm ⁻³
total recoverable hydrocarbons	Concentration not greater than 15 gm ⁻³ (as determined by infrared spectroscopic technique)
chloride	Concentration not greater than 230 gm ⁻³

This condition shall apply before the entry of the treated stormwater into the receiving environment at a designated sampling point approved by the Chief Executive, Taranaki Regional Council.

Consent 5744-2.0

- 9. The pH may exceed 9.0 if the exceedance is a result photosynthetic activity within the skimmer pits, but in any case the discharge shall not result in the pH of the receiving water increasing by more than 0.5 pH units after allowing for a mixing zone of 25 metres.
- 10. After allowing for a mixing zone of 80 metres, the discharge shall not cause any of the following effects in the receiving water of the Manawapou River tributary:
 - a) an increase in the temperature of more than 2 degrees Celsius;
 - b) the filtered carbonaceous biochemical oxygen demand to exceed 2 gm⁻³; or
 - c) the chloride concentration to exceed 50 gm⁻³.
- 11. After allowing for a mixing zone of 80 metres, the discharge shall not give rise to any of the following effects in the receiving water of the Manawapou River tributary:
 - a) the production of any conspicuous oil or grease films, scums or foams, or floatable or suspended materials;
 - b) any conspicuous change in the colour or visual clarity;
 - c) any emission of objectionable odour;
 - d) the rendering of fresh water unsuitable for consumption by farm animals;
 - e) any significant adverse effects on aquatic life.
- 12. The consent holder shall advise the Chief Executive, Taranaki Regional Council, in writing at least 48 hours prior to the reinstatement of the site and the reinstatement shall be carried out so as to minimise adverse effects on stormwater quality. Notification shall include the consent number and a brief description of the activity consented and be emailed to worknotification@trc.govt.nz.
- 13. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2022 and/or June 2028, for the purpose of ensuring that the conditions are adequate to deal with any adverse effects on the environment arising from the exercise of this resource consent, which were either not foreseen at the time the application was considered or which it was not appropriate to deal with at the time.

For and on behalf of

Signed and transferred at Stratford on 1 November 2016

Taranaki Regional Council
· ·
A D McLay
Director - Resource Management

Discharge Permit Pursuant to the Resource Management Act 1991 a resource consent is hereby granted by the Taranaki Regional Council

Name of Westside New Zealand Limited

Consent Holder: Level 17

300 Queen Street Brisbane QLD 4000

Australia

Decision Date: 1 November 2016

Commencement Date: 1 November 2016

Conditions of Consent

Consent Granted: To discharge contaminants into the air from the Rimu

Production Station, including flaring and miscellaneous

emissions

Expiry Date: 1 June 2034

Review Date(s): June 2022, June 2028

Site Location: Rimu Production Station, Mokoia Road, Mokoia

(Property owner: M & PD Hawken)

Grid Reference (NZTM) 1715953E-5610123N

For General, Standard and Special conditions pertaining to this consent please see reverse side of this document

General condition

a. The consent holder shall pay to the Taranaki Regional Council all the administration, monitoring and supervision costs of this consent, fixed in accordance with section 36 of the Resource Management Act 1991.

Special conditions

Exercise of consent

1. The consent holder shall at all times adopt the best practicable option (as defined in section 2 of the Resource Management Act 1991) to prevent or minimise any actual or likely adverse effects on the environment associated with the discharge of contaminants into the environment arising from the emissions to air from the flare.

Recording and submitting information

- 2. The consent holder shall keep and maintain a log of all continuous flaring incidents lasting longer than 5 minutes and any intermittent flaring lasting for an aggregate of 10 minutes or longer in any 60-minute period. The log shall contain the date, the start and finish times, the quantity and type of material flared, and the reason for flaring. The log shall be made available to the Chief Executive, Taranaki Regional Council, upon request, and summarised annually in the report required under condition 4. Flaring, under normal operation in the low pressure flare, of rich mono-ethylene glycol degasser vapour, condensate tank vapours, non-condensibles from tri-ethylene glycol/mono-ethylene glycol regeneration and purge gas shall be excluded from this requirement.
- 3. The consent holder shall supply to the Taranaki Regional Council each month a copy of flaring information comprising: the type and amount of material flared (including any gas used to maintain a pilot flame), the date this was flared, the reason why flaring was undertaken, and an indication of whether smoke was produced from such flaring events.
- 4. The consent holder shall provide to the Taranaki Regional Council during August of each year, for the duration of this consent, a report:
 - a) detailing gas combustion at the production station flare, including but not restricted to routine operational flaring and flaring logged in accordance with condition 2.
 - b) detailing any measures that have been undertaken by the consent holder to improve the energy efficiency of the production station;
 - c) detailing any measures to reduce smoke emissions;
 - d) detailing any measures to reduce flaring,
 - e) addressing any other issue relevant to the minimisation or mitigation of emissions from the production station flare; and
 - f) detailing any complaints received and any measures undertaken to address complaints.

5. The consent holder shall keep and make available to the Chief Executive, Taranaki Regional Council, upon request, a record of all smoke emitting incidents, noting time, duration and cause. The consent holder shall also keep, and make available to the Chief Executive, upon request, a record of all complaints received as a result of the exercise of this consent.

Information and notification

- 6. The consent holder shall make available to the Chief Executive, Taranaki Regional Council upon request, an analysis of a typical gas and/or condensate stream from the Manutahi, Kauri and Tariki Formations, covering sulphur compound content and the content of compounds containing six or more carbon atoms in their molecular structure.
- 7. Prior to undertaking any alterations to the plant equipment, processes or operations, which may substantially alter the nature or quantity of flare emissions other than as described in the consent application, the consent holder shall first consult with the Chief Executive, Taranaki Regional Council, and shall obtain any necessary approvals under the Resource Management Act 1991.
- 8. The consent holder shall notify the Chief Executive, Taranaki Regional Council, as soon as practicable, whenever the continuous flaring of hydrocarbons (other than the flaring of rich mono-ethylene glycol degasser vapour, condensate tank vapours, non-condensibles from tri-ethylene glycol/mono-ethylene glycol regeneration and purge gas) is expected to occur for more than five minutes in duration.

Preventing and minimising emissions

- 9. The discharges authorised by this consent shall not, whether alone or in conjunction with any other emissions from the site arising, give rise to any levels of odour or dust or smoke that are offensive or obnoxious or objectionable at or beyond the boundary of the site.
- 10. The consent holder shall not discharge any contaminant to air from the site at a rate or a quantity such that the contaminant, whether alone or in combination with other contaminants, is or is liable to be hazardous or toxic or noxious at or beyond the boundary of the site.
- 11. The consent holder shall control all emissions of carbon monoxide, nitrogen dioxide, fine particles (PM10) and sulphur dioxide to the atmosphere from the site, in order that the maximum ground level concentration of any of these contaminants arising from the exercise of this consent measured under ambient conditions does not exceed the relevant ambient air quality standard as set out in the Resource Management (National Environmental Standards for Air Quality Regulations, 2004) at or beyond the boundary of the property on which the wellsite is located.

- 12. The consent holder shall control discharges to the atmosphere from the flare of contaminants, other than those addressed by the *Resource Management (National Environmental Standards for Air Quality) Regulations, 2004,* whether alone or in conjunction with any other emissions from the site, in order that the maximum ground level concentration for any particular contaminant arising from the exercise of this consent, measured at or beyond the boundary of the site, is not increased above background levels:
 - a) by more than 1/30th of the relevant Workplace Exposure Standard-Time Weighted Average (exposure averaged over a duration as specified for the Workplace Exposure Standard-Time Weighted Average), or by more than 1/10th of the Workplace Exposure Standard-Short Term Exposure Limit over any short period of time (all terms as defined in Workplace Exposure Standards, 2002, Department of Labour); or
 - b) if no Short Term Exposure Limit is set, by more than the General Excursion Limit at any time (all terms as defined in Workplace Exposure Standards, 2002, Department of Labour or any subsequent reviews).

Advice Note:

In exercising this consent the consent holder must also comply with any discharge standard required by Regulations. At the time of issuing this consent the 'Resource Management (National Environmental Standards for Air Quality) Regulations, 2004' set limits on discharge of carbon monoxide, nitrogen dioxide, fine particles (PM₁₀) and sulphur dioxide.

Review

- 13. In accordance with section 128 and section 129 of the Resource Management Act 1991, the Taranaki Regional Council may serve notice of its intention to review, amend, delete or add to the conditions of this resource consent by giving notice of review during the month of June 2022 and/or June 2028, for the purposes of:
 - a) dealing with any significant adverse effect on the environment arising from the exercise of the consent which was not foreseen at the time the application was considered or which it was not appropriate to deal with at the time; and/or
 - b) requiring the consent holder to adopt the best practicable option to remove or reduce any adverse effect on the environment caused by the discharge; and/or
 - c) to alter, add or delete limits on mass discharge quantities or discharge or ambient concentrations of any contaminant or contaminants.

Signed and transferred at Stratford on 1 November 2016

For and on behalf of Taranaki Regional Council

A D McLay

Director - Resource Management

Appendix II

Categories used to evaluate environmental and administrative performance

Categories used to evaluate environmental and administrative performance

Environmental performance is concerned with <u>actual or likely effects</u> on the receiving environment from the activities during the monitoring year. Administrative performance is concerned with the Company's approach to demonstrating consent compliance <u>in site operations and management</u> including the timely provision of information to Council (such as contingency plans and water take data) in accordance with consent conditions.

Events that were beyond the control of the consent holder <u>and</u> unforeseeable (that is a defence under the provisions of the RMA can be established) may be excluded with regard to the performance rating applied. For example loss of data due to a flood destroying deployed field equipment.

The categories used by the Council for this monitoring period, and their interpretation, are as follows:

Environmental Performance

High: No or inconsequential (short-term duration, less than minor in severity) breaches of consent or regional plan parameters resulting from the activity; no adverse effects of significance noted or likely in the receiving environment. The Council did not record any verified unauthorised incidents involving environmental impacts and was not obliged to issue any abatement notices or infringement notices in relation to such impacts.

Good: Likely or actual adverse effects of activities on the receiving environment were negligible or minor at most. There were some such issues noted during monitoring, from self-reports, or during investigations of incidents reported to the Council by a third party but these items were not critical, and follow-up inspections showed they have been dealt with. These minor issues were resolved positively, co-operatively, and quickly. The Council was not obliged to issue any abatement notices or infringement notices in relation to the minor non-compliant effects; however abatement notices may have been issued to mitigate an identified potential for an environmental effect to occur.

For example:

- High suspended solid values recorded in discharge samples, however the discharge was to land or to receiving waters that were in high flow at the time;
- Strong odour beyond boundary but no residential properties or other recipient nearby.

Improvement required: Likely or actual adverse effects of activities on the receiving environment were more than minor, but not substantial. There were some issues noted during monitoring, from self-reports, or during investigations of incidents reported to the Council by a third party. Cumulative adverse effects of a persistent minor non-compliant activity could elevate a minor issue to this level.

Abatement notices and infringement notices may have been issued in respect of effects.

Poor: Likely or actual adverse effects of activities on the receiving environment were significant. There were some items noted during monitoring, from self-reports, or during investigations of incidents reported to the Council by a third party. Cumulative adverse effects of a persistent moderate non-compliant activity could elevate an 'improvement required' issue to this level. Typically there were grounds for either a prosecution or an infringement notice in respect of effects.

Administrative performance

High: The administrative requirements of the resource consents were met, or any failure to do this had trivial consequences and were addressed promptly and co-operatively.

- **Good:** Perhaps some administrative requirements of the resource consents were not met at a particular time, however this was addressed without repeated interventions from the Council staff. Alternatively adequate reason was provided for matters such as the no or late provision of information, interpretation of 'best practical option' for avoiding potential effects, etc.
- Improvement required: Repeated interventions to meet the administrative requirements of the resource consents were made by Council staff. These matters took some time to resolve, or remained unresolved at the end of the period under review. The Council may have issued an abatement notice to attain compliance.

Poor: Material failings to meet the administrative requirements of the resource consents. Significant intervention by the Council was required. Typically there were grounds for an infringement notice.