

Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

PO Box 4067 Furriry Pates 20 Oct 4

Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024

Date of Inspection: 24-May-2023

Time of Inspection: 12:00 a.m.

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Not Assessed

Comments / Actions Required:

Consent not exercised no site audit required. Visited the site few weeks ago the plant is not ready yet.

Kasjan Paciuszkiewicz

Pacosteins.

Compliance Officer



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

Inspection Number: 422432

PO Box 4067

Mount Moungapui South

Expiry Date: 30-Oct-2024

Mount Maunganui South

Mount Maunganui 3149

Date of Inspection: 23-Jun-2023

Time of Inspection: 7:42 a.m.

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Not Assessed

Comments / Actions Required:

Update Email received from Garreth Strawbridge;

The setup of the pyrolysis plant is still happening, site is waiting on arrival of final parts to complete the assembly. Currently no discharges as the equipment is being built. No requirement for site visit yet.

Will organize a visit once notification for start of works arrives.

Kasjan Paciuszkiewicz

Pacosteins.



Rainbow Mountain Renewable Energy Limited Consent Number: RN

PO Box 4067

Mount Maunganui South Mount Maunganui 3149 Consent Number: RM22-0076-DC.01

Inspection Number: 431138

Expiry Date: 30-Oct-2024

Date of Inspection: 05-Jul-2023

Time of Inspection: 12:00 a.m.

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection: Position:

Reason for Inspection:

Level of Compliance: Complying

Comments / Actions Required:

Desktop audit assessing compliance with resource consents RM22-0076 & RM22-0128 and the requirement of Site Management Plans.

RM22-0076 - The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

RM22-0128 - The purpose of this resource consent is to authorise and set conditions for the discharge of contaminants to air from the use of an Industrial Shredder and Destoner Cleaning Plant.

In accordance with consent condition 5.1 of RM22-0128 No later than 20 working days prior to the commencement of activities authorised by this resource consent, the consent holder must submit a final Shredder Activities Site Management Plan (SASMP) to the Bay of Plenty Regional Council (BOPRC) for certification that it has been prepared in accordance with Condition 5.2 of this consent. The purpose of the SASMP is to detail the management, operation, sampling and monitoring procedures, methodologies and contingency plans necessary to comply with the conditions of this consent.

And condition 5.1 of RM22-0076 No later than 20 working days prior to the commencement of activities authorised by this resource consent, the consent holder must submit a final ATR Plant Site Management Plan (APSMP) to the BOPRC for certification that it has been prepared in accordance with Condition 5.2 of this consent. The purpose of the APSMP is to detail the management, operation, sampling and monitoring procedures, methodologies and contingency plans necessary to comply with the conditions of this consent.

EMERGENCY MANAGEMENT PLAN Operation of Anaerobic Thermal Reduction (Pyrolysis) Processing Plant Rainbow Mountain Resource Recovery Centre SITE MANAGEMENT PLAN Operation of Anaerobic Thermal Reduction (Pyrolysis) Processing Plant Rainbow Mountain Resource Recovery Centre.

Were submitted to BOPRC on 30-05-2023 for review, these documents were externally reviewed by Airmatters. Airmatters raised few questions and required some amendments to the SMPs.

The responses to the Questions raised by airmatters were provided 04-07-2023. No further issues raised.

The purpose of this audit report is to certify the two management plans.

Please ensure compliance with consent condition 5.4 The consent holder must ensure that a copy of the certified SASMP (as required by Condition 5.1 of this consent), including any approved amendments, is kept on-site at all times, that only activities authorised by this consent are being undertaken, and the on-site copy of the certified SASMP shall be updated

🔕 5 Quay St, PO Box 364, Whakatāne 3158, New Zealand 🕑 0800 884 880 🏮 0800 884 882 🟮 info@boprc.govt.nz 🥨 www.boprc.govt.nz

Report ID: BRCCOMRP001 Report Date: 5 July 2023 Page: 1 of 2

within 5 working days of any amendments being certified.

lacostenis.

Kasjan Paciuszkiewicz

Compliance Officer



Rainbow Mountain Renewable Energy Limited

PO Box 4067

Mount Maunganui South Mount Maunganui 3149 Consent Number: RM22-0076-DC.01

Inspection Number: 431284

Expiry Date: 30-Oct-2024

Date of Inspection: 18-Jan-2024

Time of Inspection: 4:29 pm

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Not Assessed

Comments / Actions Required:

Plant still under construction

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

Inspection Number: 449944

PO Box 4067
Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024

Date of Inspection: 27-Mar-2024

Time of Inspection: 10:33 am

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Complying

Comments / Actions Required :

Site inspection to assess compliance with Resource consent RM22-0076. The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

Currently running two reactor trials, one was running while I was onsite. Initial product results look good, mixed ASR being used as a feed stock which is cracking around 330 degrees C. Only a minimal amount of PVC content. Also to trial some HDPE from Fonterra, but potential issues with wax generation.

No visible stack emissions while onsite, stack testing report still to come.

Site contact signage was missing but this has now been reinstalled on the gate

Scrubbers are currently running one with water only and second with NaOH Caustic soda, observed bunded storage shipping container for NaOH. NaCl is still to be shipped from Australia

ASR is stored under cover so not generating any leachate

A Copy of the APSMP plan is kept on site

Commented to Garreth that some of the secondhand vessels on site had incorrect HSNO signage on them.

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

Inspection Number: 449944

PO Box 4067
Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024
Date of Inspection: 27-Mar-2024

Time of Inspection: 10:33 am

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Complying

Comments / Actions Required :

Site inspection to assess compliance with Resource consent RM22-0076. The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

Currently running two reactor trials, one was running while I was onsite. Initial product results look good, mixed ASR being used as a feed stock which is cracking around 330 degrees C. Only a minimal amount of PVC content. Also to trial some HDPE from Fonterra, but potential issues with wax generation.

No visible stack emissions while onsite, stack testing report still to come.

Site contact signage was missing but this has now been reinstalled on the gate

Scrubbers are currently running one with water only and second with NaOH Caustic soda, observed bunded storage shipping container for NaOH. NaCl is still to be shipped from Australia

ASR is stored under cover so not generating any leachate

A Copy of the APSMP plan is kept on site

Commented to Garreth that some of the secondhand vessels on site had incorrect HSNO signage on them.

Small heat up single reactor runs occurred in Feb. Official 6 month trial date to begin from 1st of March 2024

No actions required, Please continue to comply with consent conditions.

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

Inspection Number: 449944

PO Box 4067
Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024

Date of Inspection: 12-Apr-2024

Time of Inspection: 10:33 am

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection: Position:

Reason for Inspection:

Level of Compliance: Complying

Comments / Actions Required :

Site inspection to assess compliance with Resource consent RM22-0076. The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

Currently running two reactor trials, one was running while I was onsite. Initial product results look good, mixed ASR being used as a feed stock which is cracking around 330 degrees C. Only a minimal amount of PVC content. Also to trial some HDPE from Fonterra, but potential issues with wax generation.

No visible stack emissions while onsite, stack testing report still to come.

Site contact signage was missing but this has now been reinstalled on the gate

Scrubbers are currently running one with water only and second with NaOH Caustic soda, observed bunded storage shipping container for NaOH. NaCl is still to be shipped from Australia

ASR is stored under cover so not generating any leachate

A Copy of the APSMP plan is kept on site

Commented to Garreth that some of the secondhand vessels on site had incorrect HSNO signage on them.

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

PO Box 4067 Inspection Number: 457845

Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024

Date of Inspection: 30-May-2024

Time of Inspection: 11:40 am

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance : Complying - Follow Up

Comments / Actions Required:

Site inspection to assess compliance with Resource Consent RM22-0076 was carried out on 30-05-2024 in conjunction with a site visit for Stormwater Consent 65172, see inspection #372187

At the time of my inspection the plant was shut down for maintenance repairs so no emission testing was able to be observed.

We discussed proposed plans for installation of oil & grit seperator for drainage in addition to the existing bunding which has over-capacity to hold liquids

Some contouring work has been done to the pad to reduce runoff

Some emissions testing has already been carried out but results have not yet been received - compliant with Condition 7.1

No emissions limit exceedances recorded to date - compliant with Condition 7.6

No odour assessments yet recorded by consent holder. I reminded Gareth that records of FIDOL assessments are required - as per condition 10.4

I observed during wider site inspection some overflow of stored ASR material outside the south-eastern corner of the storage shed, where corrosion of roofing Iron at the end corner of the shed allows rainfall to infiltrate, this presents a risk of discharge of contaminants to storm water from rainfall events. - contamination has not been identified in any recent stormwater sampling.

RMA s15 1(b) No person may discharge any — contaminant onto or into land in circumstances which may result in that contaminant (or any other contaminant emanating as a result of natural processes from that contaminant) entering water; or unless the discharge is expressly allowed by a national environmental standard or other regulations, a rule in a regional plan as well as a rule in a proposed regional plan for the same region (if there is one), or a resource consent.

Required actions:

1) Provide appropriate overhead rainfall cover to Eastern end of ASR storage shed or cease using this section for ASR storage. Actions required by 11/07/2024 - required actions also outlined in inspection #372187

Consent conditions:

7.1 Emission tests shall be conducted on emission points identified and following methodology listed in the final ATR Plant – Sampling and Monitoring Plan (S&MP), to determine compliance with Condition 7.3. These tests shall:

Report ID: BRCCOMRP001 Report Date: 16 September 2024 Page: 1 of 2

- 1. Be conducted at least three times across the duration of this consent.
- 2. Be conducted during process conditions that will give rise to maximum normal emissions.
- 3. Record and describe in lay terms the process conditions that give rise to the emissions.
- 4. Comprise not less than three separate samples with results corrected to 0 (zero) degrees Celsius, 1 (one) atmosphere pressure, 11% oxygen and a dry gas basis.
- 5. Be carried out by an International Accreditation New Zealand-accredited stack testing company using accredited methods.
- 7.6 (a) At any point during the exercise of this consent, should the discharge from the ATR Plant exceed any of the Emissions Limits for any of the parameters identified in Appendix A, the consent holder shall;
- 1. Complete the trial in progress and then cease operation of the ATR Pyrolysis Plant until the following steps have been taken; and
- 2. Advise the Bay of Plenty Regional Council as soon as practicable that there has been an exceedance of the Emissions Limit(s) including details of the parameter(s) exceeded; and
- 3. Undertake a review of the process, the plant operation, the material being thermally reduced and the management plans to understand and remedy the issues causing or contributing to the exceedances of the consented limits; and
- 4. Identify measures to be undertaken to ensure Emissions Limits will be complied with in subsequent trials;
- 5. Submit the updated management plan for certification by the Bay of Plenty Regional Council where required as a result of points (1)-(4) being undertaken; and
- 6. Advise the Bay of Plenty Regional Council of the outcome of the review process (point 3) and the measures taken to avoid further exceedances (point 4).
- (b) The purpose of the certification process is to review and provide feedback on the proposed changes to ensure the emissions limits are not exceeded in the future.
- (c) Further trials shall not commence until the measures identified in 7.6(a)(1) (6) have been undertaken and certification by the Bay of Plenty Regional Council has been received.
- 10.4 (1) The consent holder shall keep a record of;
- 1. All FIDOL Assessments undertaken and
- 2. Measures taken to reduce the frequency, intensity, the duration, offensiveness and/or location of the odour
- (2) A record of this information shall be kept for the duration of the consent and shall be provided to the Bay of Plenty Regional Council within 48 hours of it being requested.

Hayden Graham



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

Inspection Number: 440631

PO Box 4067
Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024
Date of Inspection: 12-Jun-2024

Time of Inspection: 11:03 am

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Not Assessed

Comments / Actions Required:

Plant still under construction

Hayden Graham



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

PO Box 4067 Furrish Pates 20 October 20 Octo

Mount Maunganui South
Mount Maunganui 3149

Expiry Date: 30-Oct-2024

Date of Inspection: 09-Sep-2024

Time of Inspection: 1:45 pm

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Complying

Comments / Actions Required:

Follow-up for inspection #457845

Required actions:

1) Provide appropriate overhead rainfall cover to Eastern end of ASR storage shed or cease using this section for ASR storage. Actions required by 11/07/2024 - required actions also outlined in inspection #372187

Result:

Inspected storage shed 09/09/2024, the area of concern had been cleared and ASR material removed. Consent holder plans to repair roof with new roofing iron so it is watertight.

Assessed as complying

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

PO Box 4067 Furrish Pates 20 October 20 Octo

Mount Maunganui South

Mount Maunganui 3149

Expiry Date: 30-Oct-2024

Date of Inspection: 16-Sep-2024

Time of Inspection: 1:45 pm

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection : Position:

Reason for Inspection:

Level of Compliance: Complying

Comments / Actions Required:

Follow-up for inspection #457845

Required actions:

1) Provide appropriate overhead rainfall cover to Eastern end of ASR storage shed or cease using this section for ASR storage. Actions required by 11/07/2024 - required actions also outlined in inspection #372187

Result:

Inspected storage shed, the area of concern had been cleared and ASR material removed. Consent holder plans to repair roof with new roofing iron so it is watertight.

Assessed as complying

Hayden Graham



16-Sep-2024

Rainbow Mountain Renewable Energy Limited Consent Number: RM22-0076-DC.01

Inspection Number: 467423

Date of Inspection:

PO Box 4067
Mount Maunganui South

Expiry Date: 30-Oct-2024

Time of Inspection: 2:00 pm

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection: Position:

Reason for Inspection:

Mount Maunganui 3149

Level of Compliance : Low Risk Non- Compliance

Comments / Actions Required:

Site inspection to assess compliance with Resource consent RM22-0076. The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

Final on site inspection was conducted on 09/09/2024 to close off the Pyrolysis Trial. I met onsite with Gareth Strawbridge.

- The LDPE trial had proved to produce too much WAX for the plant setup, wax will be reprocessed
- ASR floc and Tyre rubber ran well as seperate feedstocks
- Some teething issues with rollers and gearbox with required maintenance downtime, affected/delayed timelines for trial runs

Testing

- Ran a few no-load tests but was not great for the reactor
- Dioxin testing was run in the final week of trials
- Halogen & Chloride tests came back with low levels. Results due this week.
- Some profile testing of Syngas came back as 98% methane. Used as recycled fuel for boilers.
- Plans to install filters to improve oil quailty
- Looking into improving quality of carbon black by-product

Scrubbers:

1&2 ran with water, gareth informed me from stack testing results this was sufficient to knock out NOX, sodium chloride was not used

3 ran with caustic soda to knock out Sulphites

Scrubber residue salts will be removed and tested for content

Stack testing:

Sweet of tests were run over 3 separate days - all required testing said to be completed - compliant with condition 7.1

On 09/09/02024 I requested all test result data received and FIDOL records be forwarded to BOPRC.

As at 16/09/2024

No test results have been received to date by BOPRC - Non-Compliant with condition 7.2

- Results must be submitted to BOPRC within 10 days of receiving results

No records of FIDOLs have been provided to date - Non-Compliant with condition 10.4

Report ID: BRCCOMRP001 Report Date: 16 September 2024 Page: 1 of 2

🔕 5 Quay St, PO Box 364, Whakatāne 3158, New Zealand 🕑 0800 884 880 🟮 0800 884 882 🟮 info@boprc.govt.nz 🥨 www.boprc.govt.nz

-Record of information shall be provided BOPRC within 48 hours of request

Required Actions:

- Provide raw test results and records received to date, FIDOL records, and record of relevant operating parameters as per condition 7.2 and 10.2 by Monday 23/09/2024

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited **Consent Number:** RM22-0076-DC.01

> Inspection Number: 467423

PO Box 4067 **Expiry Date:** 30-Oct-2024 Mount Maunganui South Mount Maunganui 3149 Date of Inspection: 16-Sep-2024

> Time of Inspection: 2:00 pm

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection: Position:

Reason for Inspection:

Level of Compliance : Low Risk Non- Compliance

Comments / Actions Required:

Site inspection to assess compliance with Resource consent RM22-0076. The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

Final on site inspection was conducted on 09/09/2024 to close off the Pyrolysis Trial. I met onsite with Gareth Strawbridge.

Feedstock:

- The LDPE trial had proved to produce too much WAX for the plant setup, wax will be reprocessed
- ASR floc and Tyre rubber ran well as seperate feedstocks
- Some teething issues with rollers and gearbox with required maintenance downtime, affected/delayed timelines for trial runs

Scrubbers:

1&2 ran with water, gareth informed me from stack testing results this was sufficient to knock out NOX, sodium chloride was not used

3 ran with caustic soda to knock out Sulphites

Scrubber residue salts will be removed and tested for content

Testing:

- Ran a few no-load tests but was not great for the reactor
- Dioxin testing was run in the final week of trials
- Halogen & Chloride tests came back with low levels. Results due this week.

🔕 5 Quay St, PO Box 364, Whakatāne 3158, New Zealand 🕑 0800 884 880 🕟 0800 884 882 📵 info@boprc.govt.nz 🥨 www.boprc.govt.nz

- Some profile testing of Syngas came back as 98% methane. Used as recycled fuel for boilers.
- Plans to install filters to improve oil quailty
- Looking into improving quality of carbon black by-product
- Sweet of Stack tests were run over 3 separate days all required testing said to be completed compliant with condition 7.1

On 09/09/02024 I requested all test result data received and FIDOL records be forwarded to BOPRC.

As at 16/09/2024

No test results have been received to date by BOPRC - Non-Compliant with condition 7.2. Results must be submitted to BOPRC within 10 days of receiving results

No records of FIDOLs have been provided to date - Non-Compliant with condition 10.4. Record of information shall be provided BOPRC within 48 hours of request

Report Date: 16 September 2024 Page: 1 of 2

Required Actions:

- Provide raw test results and records received to date, FIDOL records, and record of relevant operating parameters as per condition 7.2 and 10.2 by Monday 23/09/2024

Consent Conditions:

Condition 7.2

The results of all tests, including a record of all relevant operating parameters, raw data, calculations, assumptions, and an interpretation of the results, shall be submitted to the Bay of Plenty Regional Council within 10 working days of the sample results being received.

Condition 10.4

- (1) The consent holder shall keep a record of; 1. All FIDOL Assessments undertaken and 2. Measures taken to reduce the frequency, intensity, the duration, offensiveness and/or location of the odour
- (2) A record of this information shall be kept for the duration of the consent and shall be provided to the Bay of Plenty Regional Council within 48 hours of it being requested.

Hayden Graham

Compliance Officer



Rainbow Mountain Renewable Energy Limited **Consent Number:** RM22-0076-DC.01

> Inspection Number: 467423

PO Box 4067 **Expiry Date:** 30-Oct-2024 Mount Maunganui South Mount Maunganui 3149 Date of Inspection: 16-Sep-2024

> Time of Inspection: 2:00 pm

Consent Holder(s): Rainbow Mountain Renewable Energy Limited

Site Address(es): 216 State Highway 38

Purpose: temporary discharge of contaminants to air from an ATR Pyrolysis Trial

Contact Person During Inspection: Position:

Reason for Inspection:

Level of Compliance: Moderate Non-Compliance

Comments / Actions Required:

Site inspection to assess compliance with Resource consent RM22-0076. The purpose of this resource consent is to authorise and set conditions for the temporary discharge of contaminants to air from an Anaerobic-Thermal-Reduction (ATR) Pyrolysis Trial.

Final on site inspection was conducted on 09/09/2024 to close off the Pyrolysis Trial. I met onsite with Gareth Strawbridge.

Feedstock:

- The LDPE trial had proved to produce too much WAX for the plant setup, wax will be reprocessed
- ASR floc and Tyre rubber ran well as seperate feedstocks
- Some teething issues with rollers and gearbox with required maintenance downtime, affected/delayed timelines for trial runs

Scrubbers:

1&2 ran with water, gareth informed me from stack testing results this was sufficient to knock out NOX, sodium chloride was not used

3 ran with caustic soda to knock out Sulphites

Scrubber residue salts will be removed and tested for content

Testing:

- Ran a few no-load tests but was not great for the reactor
- Dioxin testing was run in the final week of trials
- Halogen & Chloride tests came back with low levels. Results due this week.

🔕 5 Quay St, PO Box 364, Whakatāne 3158, New Zealand 🕑 0800 884 880 🕟 0800 884 882 📵 info@boprc.govt.nz 🥨 www.boprc.govt.nz

- Some profile testing of Syngas came back as 98% methane. Used as recycled fuel for boilers.
- Plans to install filters to improve oil quailty
- Looking into improving quality of carbon black by-product
- Sweet of Stack tests were run over 3 separate days all required testing said to be completed compliant with condition 7.1

On 09/09/02024 I requested all test result data received to date and FIDOL records be forwarded to BOPRC.

As at 16/09/2024

No test results have been received to date by BOPRC - Non-Compliant with condition 7.2. Results must be submitted to BOPRC within 10 days of receiving results

No records of FIDOLs have been provided to date - Non-Compliant with condition 10.4. Record of information shall be provided BOPRC within 48 hours of request

Report Date: 17 September 2024 Page: 1 of 2

Required Actions:

- Provide raw test results and records received to date, FIDOL records, and record of relevant operating parameters as per condition 7.2 and 10.2 by Wednseday 25/09/2024

If compliance with the required actions are not met, further enforcement action may be taken.

Consent Conditions:

Condition 7.2

The results of all tests, including a record of all relevant operating parameters, raw data, calculations, assumptions, and an interpretation of the results, shall be submitted to the Bay of Plenty Regional Council within 10 working days of the sample results being received.

Condition 10.4

- (1) The consent holder shall keep a record of; 1. All FIDOL Assessments undertaken and 2. Measures taken to reduce the frequency, intensity, the duration, offensiveness and/or location of the odour
- (2) A record of this information shall be kept for the duration of the consent and shall be provided to the Bay of Plenty Regional Council within 48 hours of it being requested.

Hayden Graham

Compliance Officer