

Minutes of the Mount Maunganui Air Quality Working Party Zoom Hui

Tuesday 1 March 2022

Chair: Graeme Marshall

In attendance: Councillor Matemoana McDonald (BoPRC); Commissioner Shadrach Rolleston (TCC); Dominic Adams, Beau Cowdrey-Woods (Ballance Agri-nutrients); Hayden Henry (Ngāi Tukairangi); Aroha Kopae (Ngati Kuku); Julien Huteau (Ecocific); Dan Kneebone, Joey McKenzie (Port of Tauranga); Craig Duxfield, Jodi Langbien (Lawter); Emma Jones, Heidi Hughes, Rosie Kelway (Clear the Air Mt Maunganui); Cat Lochore (Toi Te Ora); Joel Ngatuere (Whareroa – present for opening/closing Karakia)

Support: Sarah Omundsen, Reece Irving, Jessica Somerville (BoPRC); Barbara Dempsey (TCC)

Apologies: Kiri Peita, Lindsey Webber (WBoP PHO); Commissioner Bill Wasley (TCC); Dudley Clemens (J. Swap Contractors); Jo Gascoigne, Katherine Lay (MfE); Ashley Hart (Lawter); Pete Chandler, Jim Miller (DHB); Councillor Paula Thompson (BoPRC); Kate Barry-Piceno (TMFAG)

Meeting Goals - Gather information, maintain momentum, get answers and drive actions. Get clarity and visibility on issues and actions; hold those responsible for air quality to account. Continue to seek ways to work collaboratively.

Opening Karakia – Joel Ngatuere

Welcome, over-view of meeting structure for 2022 – Graeme Marshall

General Business

Formalities

Minutes from the previous meeting accepted as an accurate account.

Presentation – Hayden Henry (Ngāi Tukairangi) & Julien Huteau (Ecocific) – Air quality monitoring and the role of Mātauranga Māori and tikanga in environmental monitoring – Appendix 1

Julien presented two PowerPoint slides showing the capabilities of air quality monitoring using the equipment available to Ecocific, including detecting a variety of contaminants by flying a drone around a property boundary.

Hayden's presentation focussed on a Mātauranga approach to environmental monitoring, including natural indicators indicating a decline in environmental health and the importance of knowledge of whakapapa, Te Reo and tikanga to understand te ao Māori. Hayden described Mauri, wairua, whakanoa, tapu and kiatiakitanga and how these apply to the importance of improving air quality. He also shared how each hapū could have their own approach to Mātauranga and his interpretation was that of Ngāi Tukairangi and not necessarily reflective of the approach of other hapū in the rohe.

The presentation was followed by a question and answer session.

Q & A Session

Q: How can people learn more about Mātauranga and its application?

A: It is about how the knowledge can be shared, there is no gatekeeper. Hayden would welcome being contacted directly by anyone who would like to understand more about the application of Mātauranga.

Q: Could this group look at independent monitoring in the industrial area, specifically around odours?

A: Ecocific has technology to detect odours particularly if they are associated with gases or chemicals and would be able to undertake odour assessments.

Q: How can more people be educated about air quality issues?

A: Knowledge about the issues in the industrial and wider area do need to be shared and this group can help to advise on the best ways to get communities involved. Through the application of Mātauranga a knowledge of reo and tikanga become quite essential.

Q: How can this group do better in understanding the air quality issues?

A: Current monitoring undertaken by Regional Council is largely focussed on satisfying reporting requirements under the NESAQ, and ensuring activities are compliant with consent conditions. The community are concerned about what we don't know, not just what we do know and there is a concern current monitoring is just "ticking boxes". Reporting also needs to be simplified, the use of dashboards would help.

Action: As a first step, Regional Council to circulate an overview of all the different parts of the monitoring and science framework currently in place

Q: Is more resourcing available to increase the amount of monitoring currently being undertaken?

A: Regional Council currently funds 11 independent monitors across the industrial area measuring ambient air quality 24/7. They have also introduced an additional 10 trial monitors with seven located in residential areas. Monitoring is also undertaken by all industries with air discharge consents to achieve consent compliance and health and safety requirements, so there is quite a bit more monitoring being reported on than just that undertaken by the Regional Council.

Q: Could we look at the type of monitoring undertaken in other cities / countries that are doing better than we are to find out what they are doing differently?

A: Yes this is something that can be looked into.

Q: Does Julien (Ecocific) implement Mātauranga into his work?

A: The ideal would be if western science and a hapū representative with knowledge of Mātauranga were on site at the same time when air quality sampling was being undertaken but this is often difficult to achieve. Mātauranga makes up a part of a hapū Cultural Impact Assessment and therefore it is vital it starts to sit along-side western science.

Q: It would be helpful to have regular updates from Julien and Hayden in future meetings, can this be arranged?

A: Yes this can be included into future reporting templates.

Q: How does anyone know the types and level of chemical discharge into our environment from industrial activity?

A: Consent conditions from the Regional Council put limits and controls on all discharges where there are effects, with requirements for regular reporting and compliance site visits by council officers. This information has been circulated to the Group previously through a number of science reports.

Breakout room discussion groups – Plan on a Page and Future Agendas

Working Party participants were divided into four on-line breakout rooms to undertake group discussion on the proposed Plan on a Page and the format and topics for future agendas.

Key Points:

- Give clearer definitions around key actions and what the short, medium and long term timeframes actually mean
- Have progress dates to work towards and report progress of actions on
- Define a clearer scope to report against on each action and determine what achieving an action point leads to next
- Ensure there is an ability to put a Mātauranga Māori lense across the actions
- Include health impacts and a DHB health assessment as a key action for 2022 – clearly define the health impacts on community, hapū/iwi and workers in a polluted airshed
- Set up a demonstration from Julien (Ecocific) to see the technology he has to detect and measure odours beyond a property boundary
- Strengthen iwi/hapū partnerships by committing financial resourcing to iwi/hapū to be able to include Mātauranga in air quality monitoring
- Include presentations from Toi Te Ora on health impacts, Consents teams from BoPRC and TCC on why expired consents can allow an industry to continue operating for so long and how zoning changes will help residential communities as well as the enforcement mechanisms available to consent/compliance staff
- Get an update presentation from Hayden and Julien at a future meeting
- Community groups can present on their real experiences
- Give assurance to the community that the Pollution Hotline is worth engaging with as the feeling is a call to the hotline causes nothing to change
- Do a presentation on full regional direction and the future of the industrial area
- Update the group on the progress of the managed retreat

Table of Actions

Action	Agency
Create and circulate an overview of all levels of air quality monitoring currently undertaken	BoPRC
Investigate and report on air quality monitoring undertaken in similar port cities around New Zealand and over-seas	BoPRC
Give ownership to actions that arose from the break-out groups as identified in Key Points above	BoPRC

Meeting closed with karakia at 12 noon.

Appendix 1 – Presentation – Te Ao and Mātauranga Māori in environmental monitoring

Particulate Matter (PM10)

Date 09/07/21
Time 9:03
Wind Direction S-SW



Carbon monoxide (CO)

Date 09/07/21
Time 9:03
Wind Direction S-SW



Carbon dioxide (CO2)

Date 09/07/21
Time 9:03
Wind Direction S-SW



Nitrogen dioxide (NO2)

Date 09/07/21
Time 9:03
Wind Direction S-SW



Site Boundary Monitoring during a demolition project



ECOCIFIC - Air Quality Monitoring, Firth Industries 002

Scale: 0 10 20 30 40 50 60 70 80 90

176.201536

R: 205
P: 301

37.66479434

M/VR 072

SUB SYS STATUS

Y: 301
FLT
NST: 03

PM10 33 (µg/m³)

PM2.5 11 (µg/m³)

NO₂ 10 (µg/m³)

SO₂ 43 (µg/m³)

35°C

37.66479434

AUTO

025 075 120 140 160 180 200 220

HAC-C 3.79 KB
KSC SAT 15.37 KB

Activate Windows
Go to Settings to activate Windows

SB: AUTO
MM:302

0:59 / 2:31

Tawhirimatea

THE STORY OF CREATION

“KIA EKE KI TONA TAUMATA

TO OBTAIN TO THE EXCELLENCE OF ITS BEING “

(MARSDEN.M. PG 39)

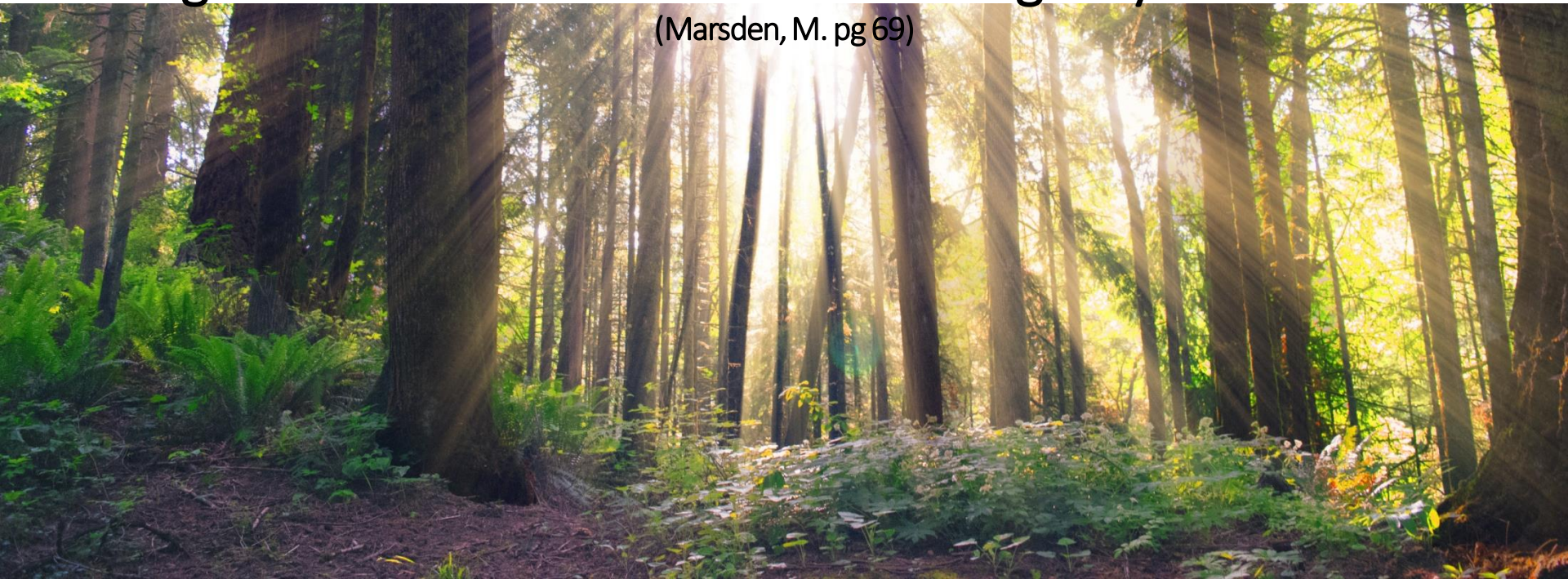
Man

a pillager despoiler and rapist of his own Mother, Forests are denuded, land, sea and air polluted, her surface scared and resources depleted.

Until man learns they are an integral part of the naturel order he will abuse the earth.

He is whanau to this environment and will help him in restoring and maintaining harmony and balance which successive generations of humankind have arrogantly disturbed

(Marsden, M. pg 69)





CREATION

Te Kore – The nothingness, the emptiness, the stillness

Te Po – The Darkness, the curiosity, the movements – Atoms
(negative and positive)- neutron and proton

Te Ao Marama – The Light, the atom, the explosion

WHAKAPAPA

70 to 75 children of Ranginui and

Papatuanuku

Tawhiri, Tangaroa, Taane, Tuu,

Rongo Haumia creating =

IRA TANGATA = Tiki (immortal
person)

Hineohuone – Papa – red orch

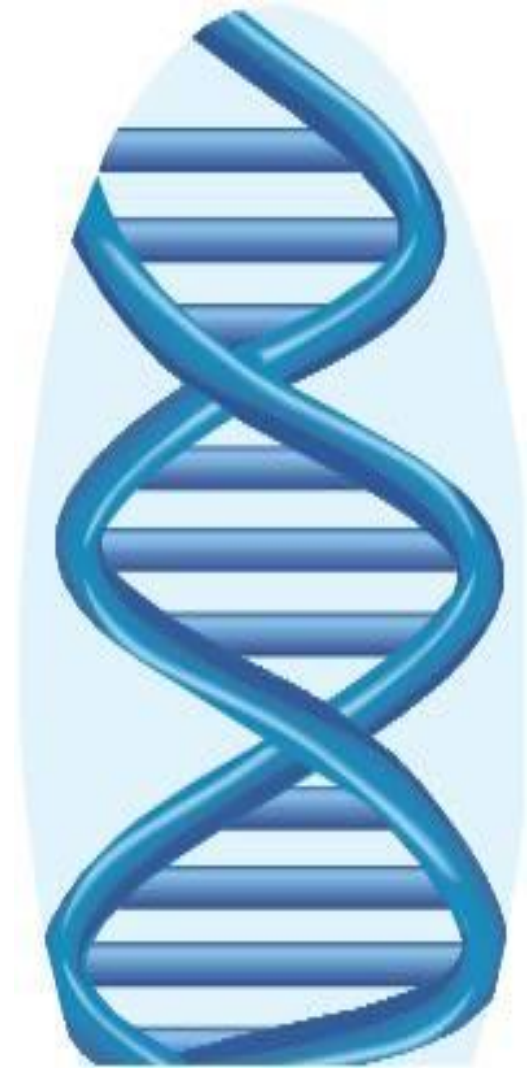
(1st borne) - Tane – Ha/ moulded

-Ha breath of Tawhiri

- Tuu – courage

- Tangaroa - blood

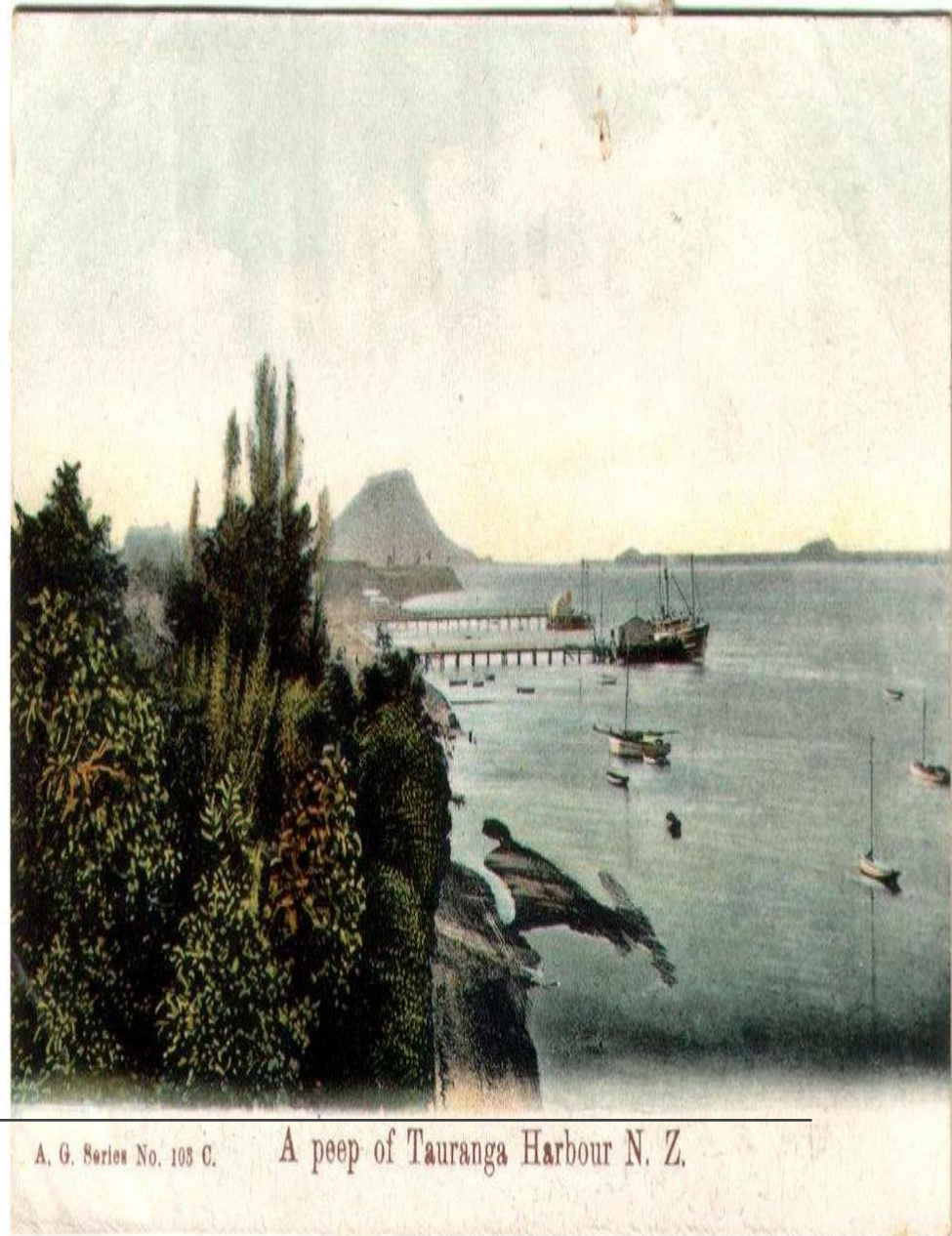
Tihie mauri ora (let there be life)





HAVOC
SEPERATION

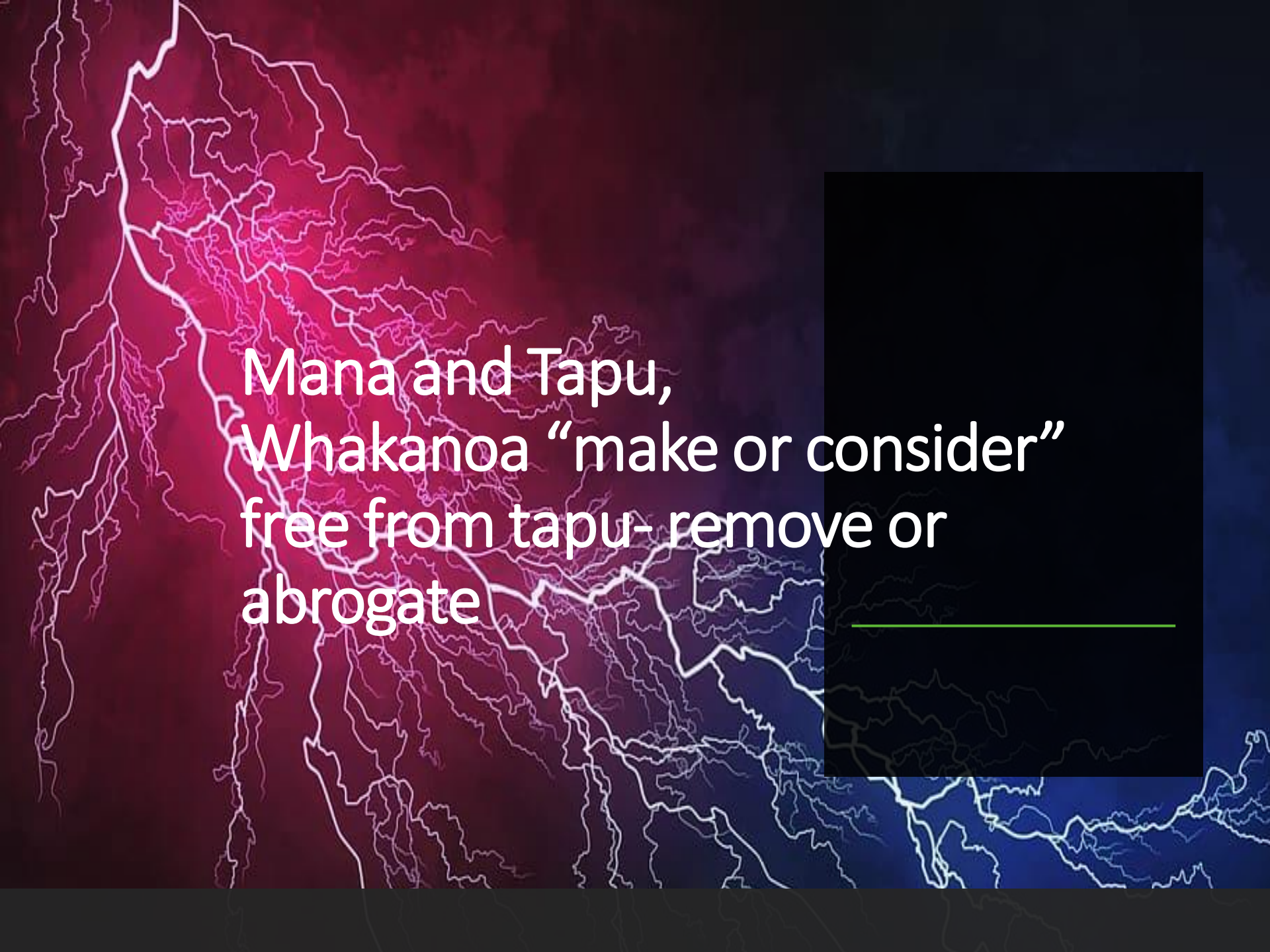
Mauri life force




A. G. Series No. 103 C. A peep of Tauranga Harbour N. Z.

Wairua





Mana and Tapu,
Whakanoa “make or consider”
free from tapu- remove or
abrogate

A close-up photograph of two hands shaking. The hand on the left is dark-skinned, and the hand on the right is light-skinned. The hands are clasped together in a firm grip, symbolizing partnership and agreement. The background is a plain, light-colored wall.

Whakanoa
Matauranga and Science
Mauri
whanau
Kotahitanga
Tika an Pono



Kaitiakitanga



Guardians



Connections – Whanau - -
responsibilities, -
communications

Sharing – Partnership

Resourcing \$\$\$\$\$

Contemporary and traditional

Honesty and truthful

Wellbeing of the land, elements
and people

He aha te mea nui o te Ao – he
tangata he tangata, he tangata (
what is the most important thing
in this world – it is people it is
people it is people engari

Toi tu te Tangaroa, Toi tu te
papatuanuku , toi tu te tangata

If you look after mother earth
and Tangaroa it will look after us

Q&A

Hayden Henry – Ngai Tukairangi Hapu Representative

hayden.henry30@gmail.com

028 042 9336

Julien Huteau – Ecocific Scientist

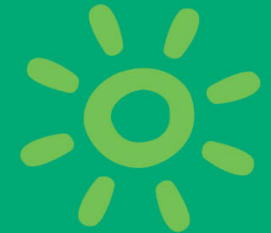
julien.huteau@ecocific.co.nz

021 026 92794

Appendix 2 – Presentation - BoPRC Actions and Enforcement Update for 2021

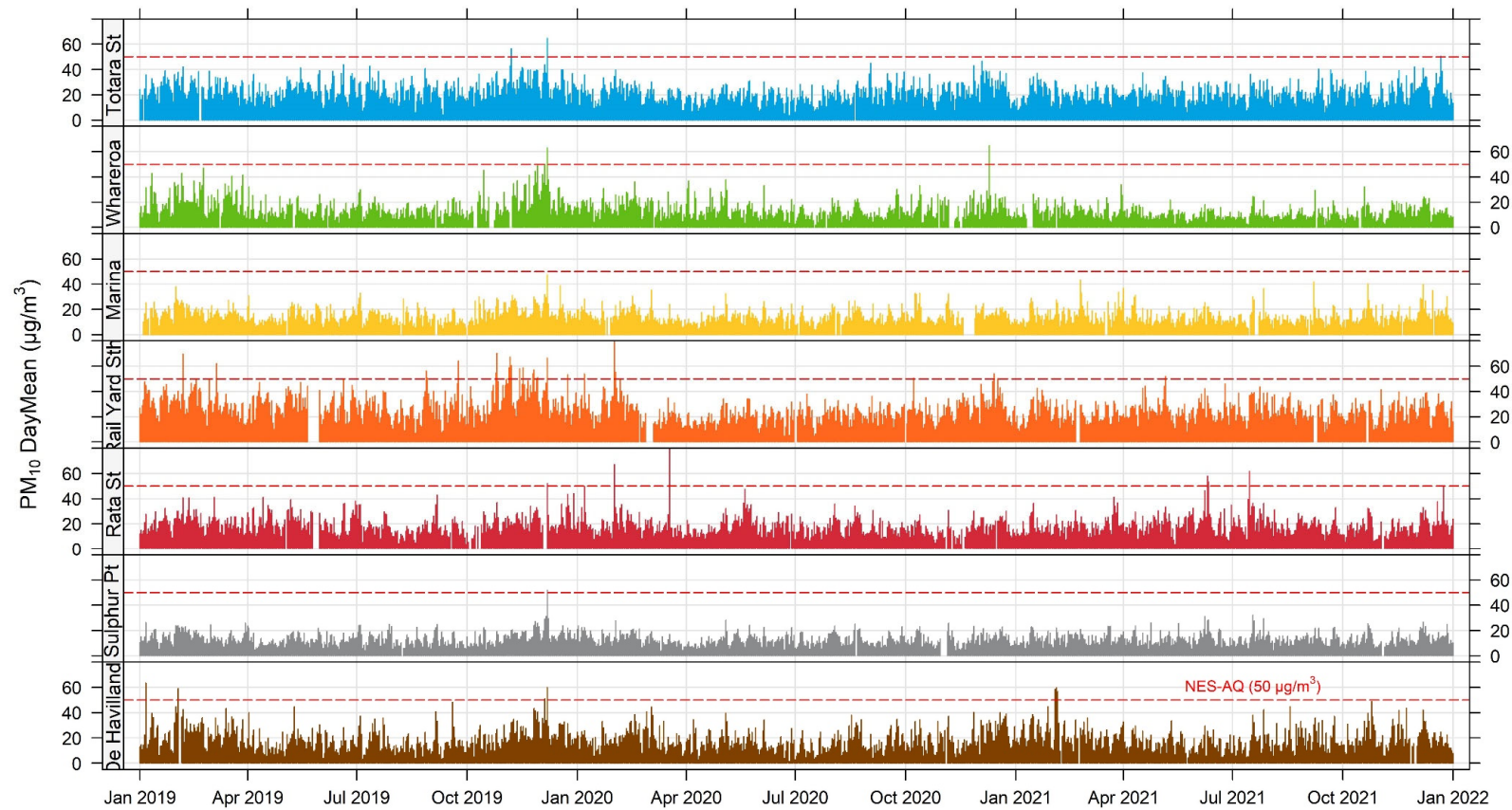
Toi Moana response – a year in review

Air quality trends, compliance, response and special projects in the Mount Maunganui air-shed, 2021



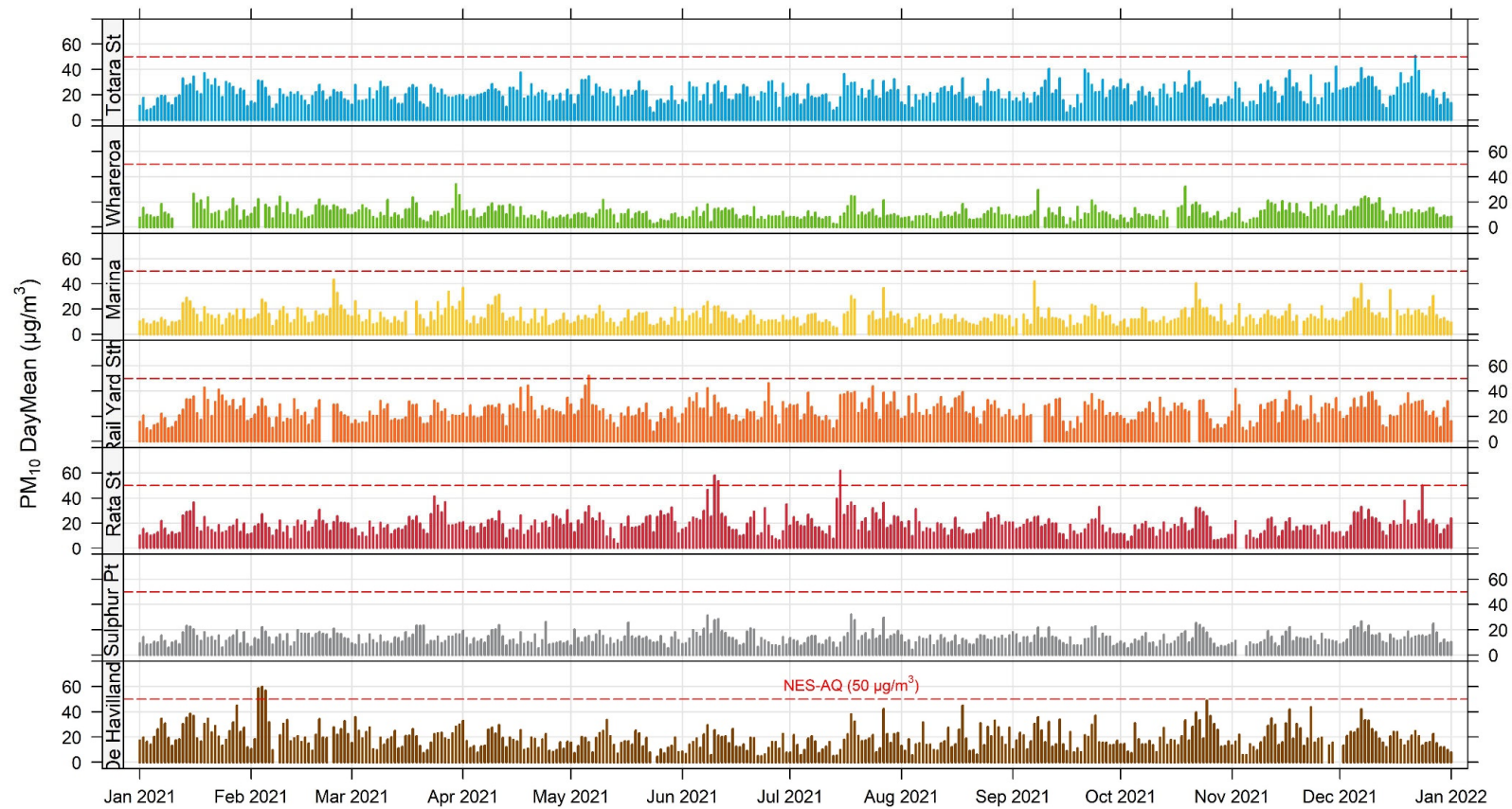
PM10 - 2019-2021

Mount Industrial Area - Daily Mean PM₁₀ - 2019 to 2021



PM10 - 2021

Mount Industrial Area - Daily Mean PM₁₀ - 2021





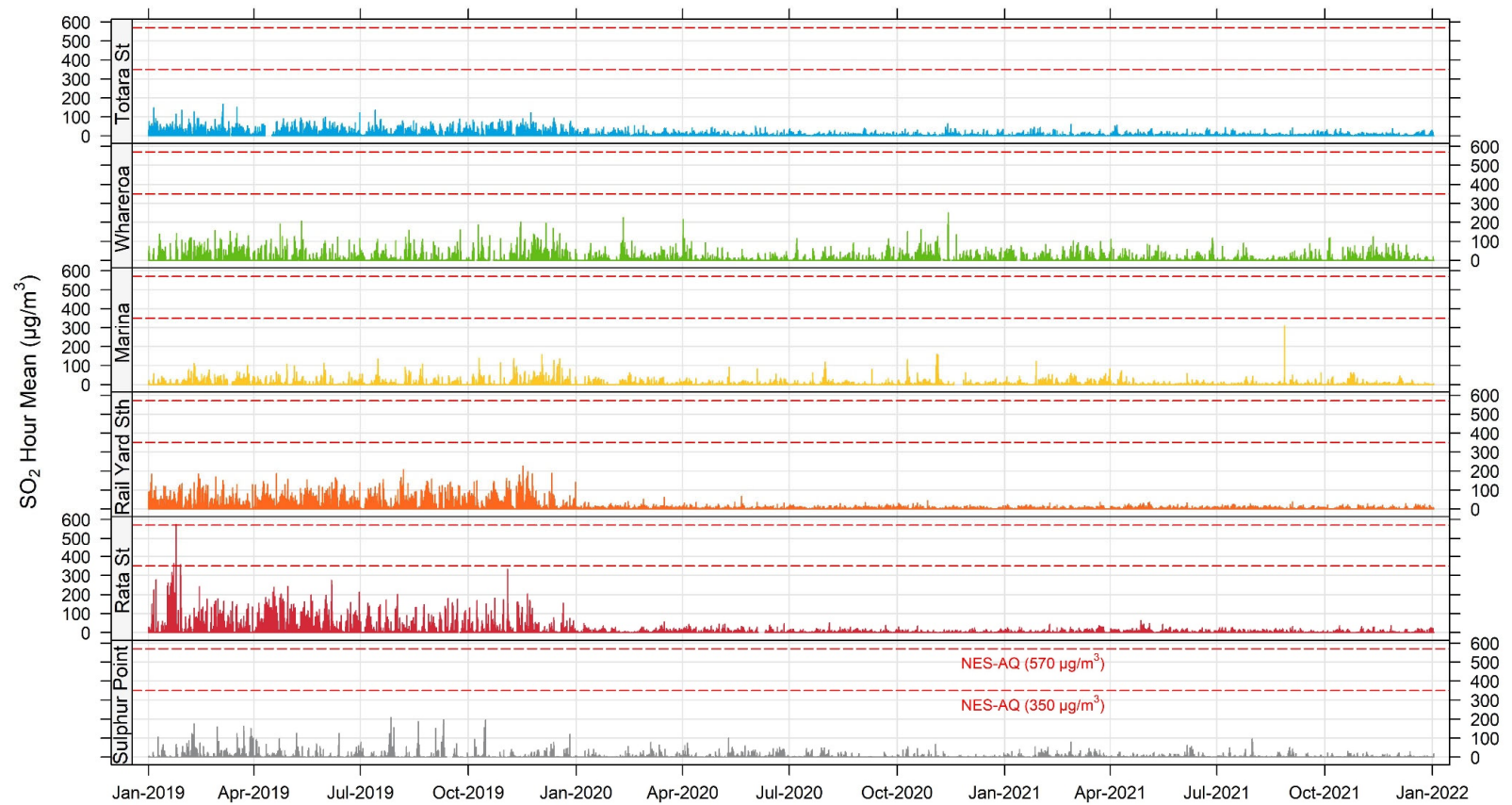
PM10 – exceedances of NESAQ

- 2019 – 21 exceedances (1 EC*)
- 2020 – 8 exceedances
- 2021 – 10 exceedances (5 EC*)

***EC=exceptional circumstance dispensation granted by Minister for Environment**

SO₂, 2019-2022

Mount Industrial Area - Hourly Mean SO₂ - 2019 to 2021



SO₂ - 2021

Mount Industrial Area - Hourly Mean SO₂ - 2021





Compliance and enforcement

- **17 large industrial sites holding consent to discharge (to air/land and/or water)**
- **All compliance monitoring of consents was up to date in 2021**
- **Abatement notices issued for breaches of RMA rules totalled six – three for air discharges and three for land or water discharges**
- **Six infringement notices issued to one company**
- **One prosecution completed with sentencing in 2021**



Special project – Pollution Audits

- **Industrial Pollution Prevention audits of businesses running for 13 years – joint BoPRC / TCC project**
- **Fifth time undertaken in Mt Industrial area**
- **500+ businesses assessed during letter and information drop in Nov/Dec 2021**
- **200+ businesses identified for full site audit, undertaken in Jan/Feb 2022**
- **150 site audits completed with the remainder to be undertaken through March**
- **Unsealed sites being identified & mapped with dust management plans to follow**
- **Close attention to odour discharging activities**
- **Sites with future planting potential being identified as part of this project**



Moving forward

- **BoPRC compliance officer permanently based in industrial area with office at PoT**
- **24/7 pollution response through Pollution Hotline and trialling smart phone app.**
- **10 air quality monitors being trialled with seven in residential areas**
- **A number of consents up for review in 2022**
- **Issues identified as part of pollution audits to be resolved in agreed timeframes**