

Raglan WWTP Discharge Consent Application Project

March 23 – Technical update

Whakataka te hau ki te uru,
Whakataka te hau ki te tonga.
Kia mākinakina ki uta,
Kia mātaratara ki tai.
E hī ake ana te atakura.
He tio, he huka, he hauhū.
Tīhei Mauri Ora!

Cease oh winds of the west
and of the south
Let the bracing breezes flow,
over the land and the sea.
Let the red-tipped dawn come
with a sharpened edge, a touch of frost,
a promise of a glorious day.
Let there be Life!

Agenda		
Welcome/ Introductions/ Overview	Cllr	5m
1) Update Studies (private land SDI)	Steve	5m
2) Project Scenarios for discharge (i) Governance (ii) Process	Steve	10m
3) SDI Concepts	Steve	10m
4) Closing	Cllr	10m

2a) Consenting Scenario: Best Practical Option Determination (slide 1 of 3)

- With any such 'in principle' agreement in place, the project team will need to then have confidence that intensive further investigation should proceed at the site (i.e. pilot trial and test bore installation), given indicators that it is suited for SDI (WDC permissions for spending would be applied for). Any completion of such activities could then:
 - Allow comparison for such a solution against the remaining options, and;
 - present to community partners and hapuu, explaining necessary process steps to establish this as the best practical option (BPO) through qualitative analysis. This ensures community voice and partnership occur as best as practical,

1

Discussion Point 1: Permissions = Governance

- *Water Governance Board Paper (1):*
- **BPO Assessment & Recommendation strategy**
 - *Securement status*
 - *Project Cost: Conveyance & SDI instalment*
 - **Project Objective Analysis**
 - *Refined Engagement & Partnership Processes*

Water Governance Board = Project Owner on behalf of WDC

(Project Website)
[Link: Consenting Snap Shot Feb 23](#)



Consenting Scenario (slide 2 of 3)

- With any such 'in principle' agreement in place, the project team will need to then have confidence that intensive further investigation should proceed at the site (i.e. pilot trial and test bore installation), given indicators that it is suited for SDI (WDC permissions for spending would be applied for). Any completion of such activities could then:
 - Allow comparison for such a solution against the remaining options, and;
 - present to community partners and hapuu, explaining necessary process steps to establish this as the best practical option (BPO) through qualitative analysis. This ensures community voice and partnership occur as best as practical.

2

Preferred Option (BPO)

Short list 2020
Focussed group
(MCA)

Long list 2020
Wide group
(traffic light)

Input:

Approved BPO Assessment & Recommendation Strategy

WGB

Next Steps (1) Execute: Technical Team/WSL/WDC

Core elements:

Short list qualitative analysis Project Objective Analysis

Output:

Advised BPO presented in Water Governance Board Paper

Consenting Scenario (slide 3 of 3)

Project Objective Analysis

Raglan Wastewater Consent Project

Project Objectives

The aim of the project is to identify the best practicable option to provide wastewater services for the Whāingaroa community. In doing this we aim to:

- Keep communities healthy
- Protect the environment, particularly the water quality and ecology of the Whāingaroa Harbour
- Recognise the significance of the Whāingaroa Harbour to hapū and support the kaitiaki management of customary fishing
- Protect the community use of the area, along with the visitor experience
- Work in partnership with the community and hapū
- Retain flexibility for future, sustainable, long-term solutions including potential reuse of treated wastewater
- Keep the overall costs of the wastewater solution to affordable levels

- *Cultural Rights*
- *Community Representation & Affected Parties*

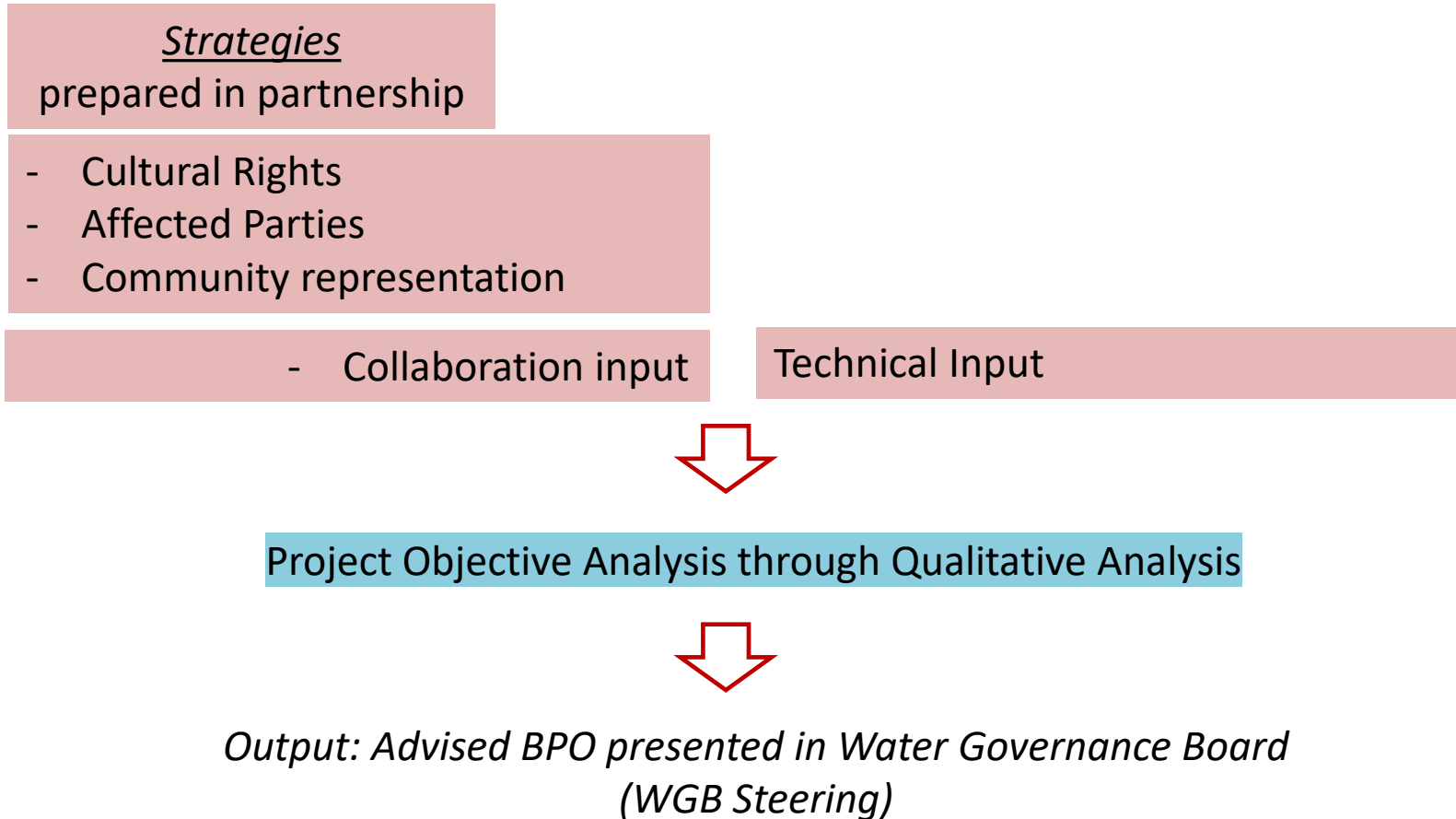
- *Assessment of Environmental Effects*
- *Safety, Affordability, Adaptability, Resilience*

Strategies prepared in partnership

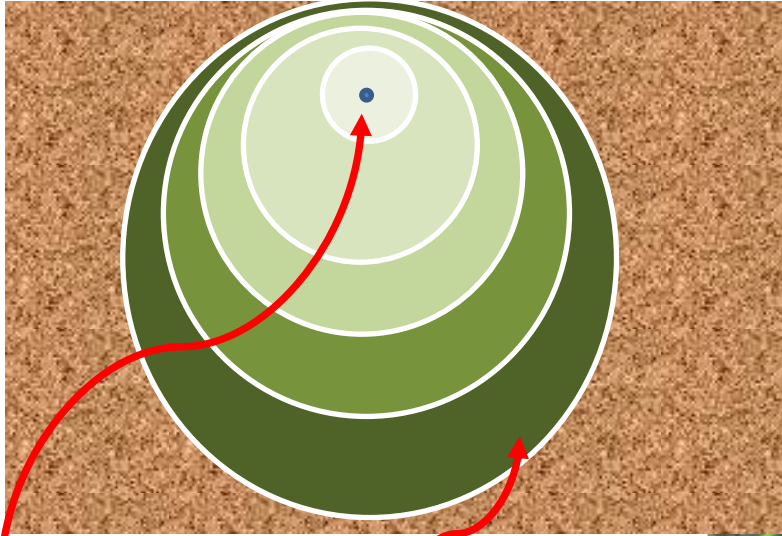
Technical input

Proposed way forward to met best practice

BPO Assessment & Recommendation Strategy (WGB Endorsed)



3) SDI Concept (Slide 1 of 2)



SDI Line
1st day of irrigation



SDI Concepts (slide 2 of 2)

A	1000 m ³ per day to SDI discharge	<i>Theoretical volume</i>
B	20 ha SDI field divided into 5 zones (fields)	<i>See Image below</i>
C	5 day return time between irrigation of each field, meaning 4 ha per day is irrigated	<i>A single field is irrigated per day</i>
D	250 m ³ /ha within a day is the rate required per discharge	<i>1000m³ divided by 4 (see row C)</i>
F	25 mm/irrigation applied per day to a field (Day 1)	<i>1mm equals 10m³/ha; therefore <u>25</u> x 10m³ = 250m³ <u>25</u> x 1mm =25mm</i>
G	5 mm/day (average sub surface flow)	<i>25mm/5 days (see row F)</i>

Notes

- Very simplistic explanation of SDI – complex modelling, field selection (best soils reserved for season and weather), and intermittent irrigation through the day ;
- Most of the soil capacity is reserved for rainfall (90-70%)
- Sheet water does not co-mingle with SDI flow
- [Link: Subsurface Drip Project Note](#) (Project Website)



April Vlog Planned :SH/Priya – March Queries Received

Closing