

Raglan WWTP Discharge Consent Application Project

MAY 2022: Re-iteration of Key April Items, with Updates

- (a) Treatment Update : Treatment Optioneering – what this means?
- (b) Discharge Update: Land securement - Status

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Treatment Update: Immediate

Challenge:

Non-compliant Total Suspended Solid Trend over warmer months

–*Immediate (Stage 1) upgrade proposed :*

Treated WW conditioning / Tertiary filter / Backwash),

Next Step

Necessary governance/regulatory discussion.

Followed by a long-term upgrade (LTP budget) is to fully resolve in a manner that suits 'Best Practical Option'(BPO)

May advancements

- *Arranging a proof-of-concept trial – 1 week*
- *Jar testing with a small ARKAYL rig*

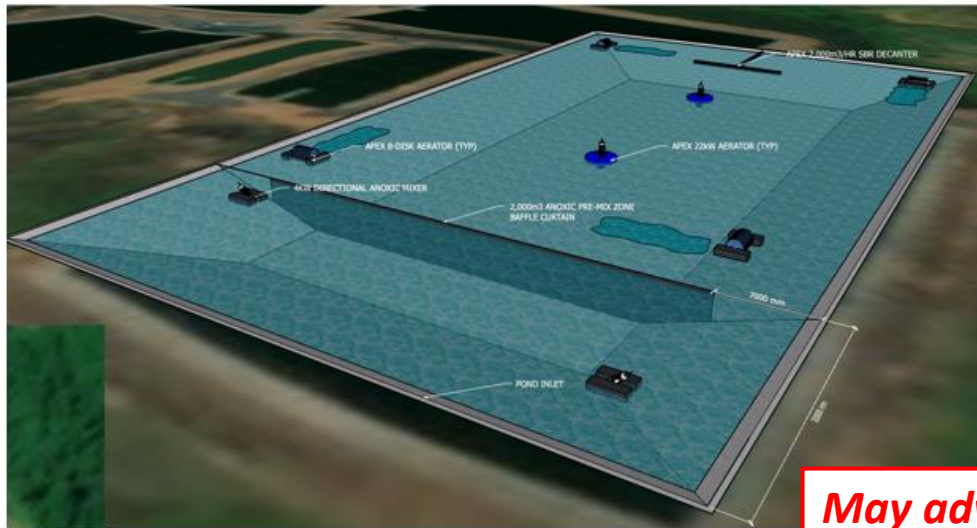


Treatment Update: Technical Recommendation for Long Term Upgrade:

Challenge:

Progressing engineering option breakdown that is responsive to differing BPO scenarios, affordable/represents best practice.

Key Query: Does this lock in discharge solution? No



Next Step:

- (i) Internal engineering refinement
- (ii) Enhanced governance/ key stakeholders/ Haapu & regulatory discussion

May advancements
Key messages 4TH May
engineering e-meeting

ADVICE: Retrofits existing infrastructure/compliments sub surface drip irrigation

Discharge Update: Sub surface drip irrigation/Upgrade influence



Short listed Options

Land Option L1:

(T) Existing **upgraded** treatment process, tertiary membrane +
(D) Combined public land discharge and alternative discharge
(i.e. winter flow – culturally treated then point source **or high rate to sands**)

Soil: Older Clay

Land Option L2:

(T) Existing **upgraded** treatment process
(D) Private land discharge and storage

Soil: Younger Loamy

24ha 2020 flow
42ha 2050 flow

(Nitrogen &
Phosphorous
management)

May advancement

- Advancing infrastructure planning processes in the Te Hutewai Growth Node
- Next Steps: (i) Property Advisors (ii) Area of focus (Mangatawhiri Rd)

Discharge Update: Sub surface drip irrigation

Public Land – Wainui Reserve

(Short listed option)

Discharge Update: Sub surface drip irrigation on public reserve

- Council and Waters Governance Board have been updated on the progress and investigation of SDI within public reserve.
- Support was given on the principle, and process of engagement with the wider Whaingaroa Community on how co-utilisation of public reserve could contribute to such a solution.
- The Reserve Management Act would need to be adhered to, including assurance that the primary use of the reserve (amenity/public recreation) is maintained.

Key Queries: Does this mean the use of public land is destined to be the best practical discharge option?

Introduced in April :
Feedback themes:

Bonus Slide

Order of preference in securing land:

1. Purchase so in Council ownership (Public Asset - Loamy): Full solution
2. Easement (Remains Private –Loamy Characteristic): Alternative discharge reliance
3. Lease registered against title (Remains Private –Loamy Characteristic) Alternative discharge reliance
4. Public Reserve Consideration (Co-use – Clay Characteristic) Alternative discharge reliance

| Wastewater | Meeting future growth demands | Upgrade of under capacity Wastewater Infrastructure | Meet increasing demand | | | |
|--|---|---|------------------------|--|---------|------|
|  |  | | | Huntly Wastewater Treatment Plant Upgrade | 2026-30 | \$47 |
| | | | | Ngaruawahia Wastewater Treatment Plant Upgrade | 2026-30 | \$53 |
| | | | | Te Kauwhata Wastewater Treatment Plant Upgrade | 2021-23 | \$36 |
| | | | | Raglan Wastewater Treatment Plant Upgrade | 2021-27 | \$28 |