

## ACH recommendations – Te Arai

I.D.	Drain type	Length (m)	Maintenance	Work details
	Main lakes	N/A	Removal of Raupo rafts and clearing of area to remove rafts	Vegetation cleared.
A1	Primary	2000	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The natural tidal stream makes access difficult. The Parks Ranger did not allow us access but they have inspected and confirmed it is clear.
A2	Primary	180	Spray twice-yearly Clean mechanically once every 5 years	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property and swamps.
A3	Primary	1080	Spray twice-yearly Clean mechanically once every 5 years	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property and swamps.
A4	Primary	780	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property and swamps.
A6	Primary	2000	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property and swamps.
B1	Secondary	2110	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The drain has been fully sprayed twice a year. The embankments have been planted. Poplars need to be removed by the property owners. The middle section is a natural watercourse which has been manually cleared from tree branches and small raupo islands.
B2	Tertiary	250	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. Tree branches were manually cleared. The raupo island is monitored by the property owner.

C1	Secondary	2770	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.
C2	Tertiary	2770	Spray twice-yearly Clean mechanically once every 5 years	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.
D	Tertiary	130	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	Spot spraying was completed twice a year. The drain is of good grade. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.
E	Secondary	240	Spray twice-yearly Clean mechanically once every 5 years	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.
F	Secondary	510	Spray twice-yearly Clean mechanically once every 5 years	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.
G	Secondary	1500	Spray twice-yearly Clean mechanically once every 5 years	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.
J	Secondary	1100	Spray twice-yearly Clean mechanically once every 5 years, truck spoil away	The drain has been fully sprayed once a year. The second inspection of these drains required spot spraying. No mechanical cleaning was required. The contractor inspected these drains and no significant issues were found. Access is limited through private property.

I.D.	Type	Description and Condition	Ongoing/required maintenance	Further information
i	Culvert	Low flow culvert with high level overflow culvert	Investigate possible upgrade to culvert	Inspection is underway –The preliminary assessment is inconclusive. A report including modelling and review is underway.
ii	Culvert	Culvert appears to be operational however is showing signs of being disjointed	Annual inspection and review	Private road culvert has been inspected. The preliminary assessment is inconclusive. A report including modelling and review is underway.
iii	Culvert	Culverts on main drains. Generally in good condition	Annual inspection and review	Inspection completed and is in good working condition.
iv	Ford	Ford is restricting flow of main culvert and is causing flooding across farmland upstream	Actioned by enforcement at Auckland Council	Issue resolved.
v	Bridge	New bridge has been built on top of old bridge which restricts flow through an already confined section of B drain	Investigate options for removal of old bridge beams	Inspected – in working condition levels have been taken. The preliminary assessment is inconclusive. A report including modelling and review is underway.
vi	Culvert	Culvert on main drains. Generally in good condition	Annual inspection and review	Private culvert –no issue found and no reported flooding.
vii	Culvert	Culverts on main drains. Generally in good condition	Annual inspection and review	Inspection completed and is in good working condition.
viii	Culvert	Culvert on main drains. Generally in good condition	Annual inspection and review	Inspection completed and is in good working condition.