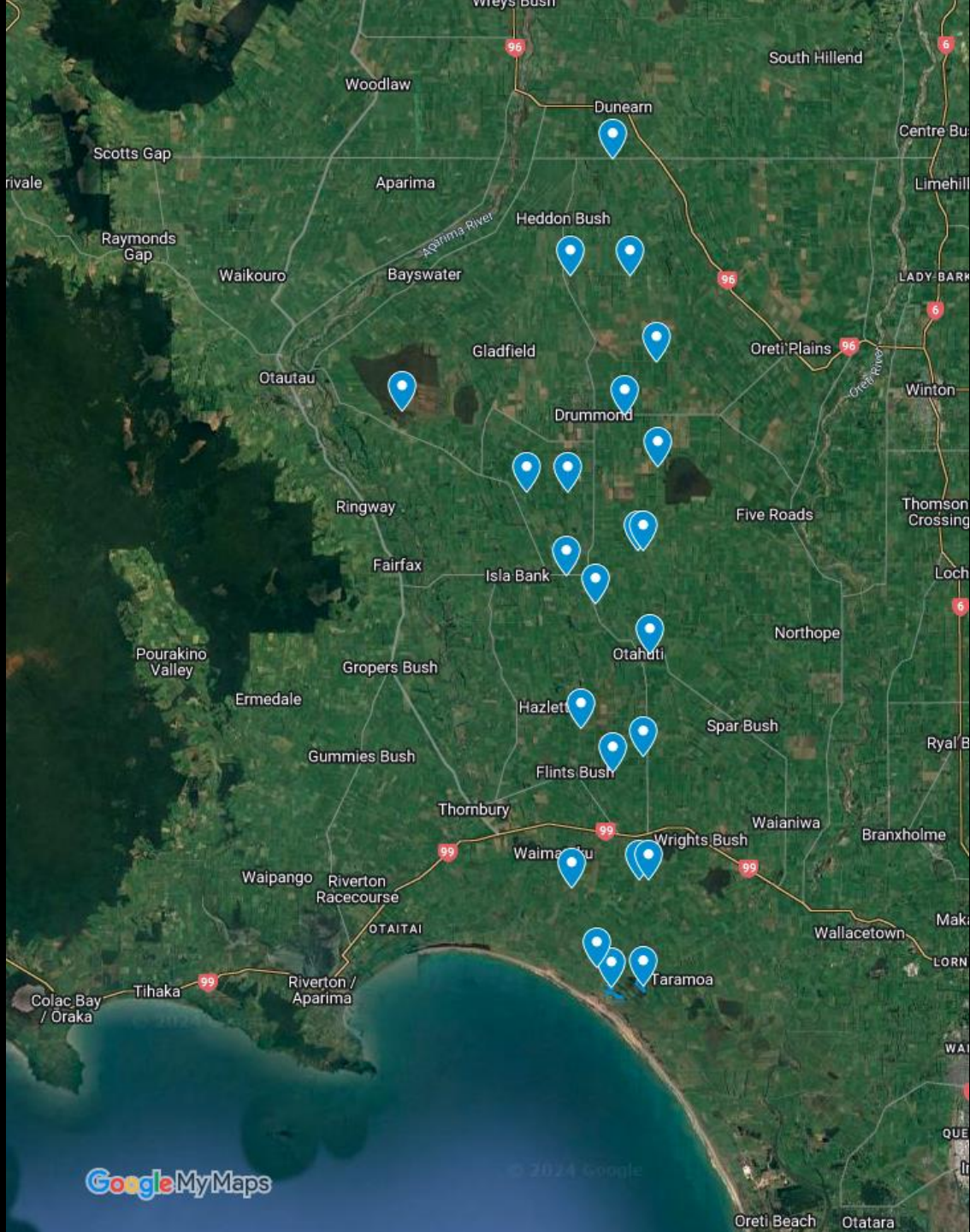


Ngā Awa Waimatuku catchment survey

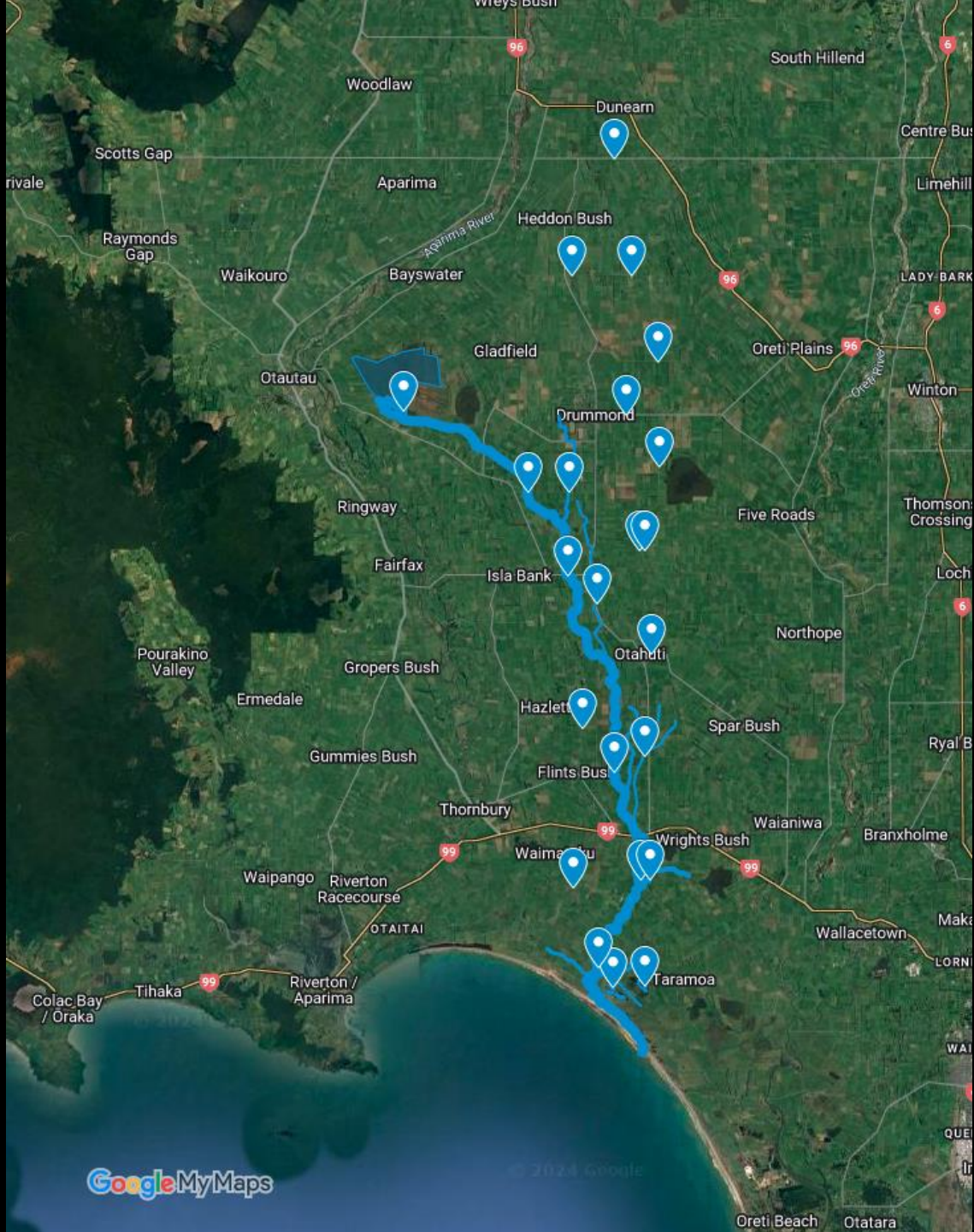
Summary of results

Waimatuku River, Middle
Creek and Taunamau Creek

Sampling sites

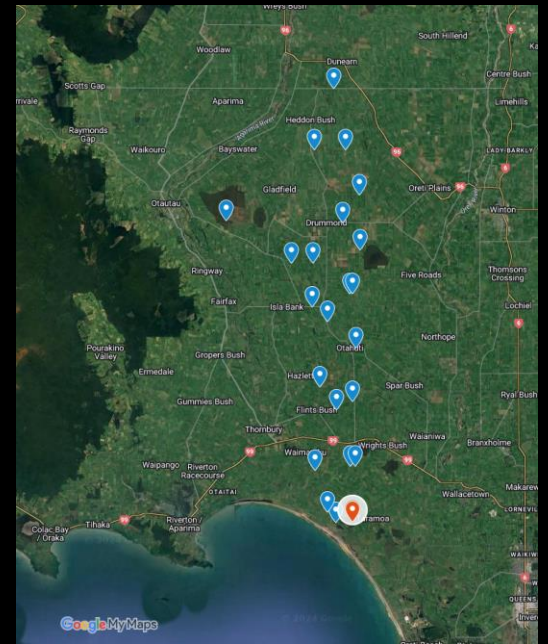


Coastal lakes,
Waimatuku River,
and Bayswater
Peat Bog



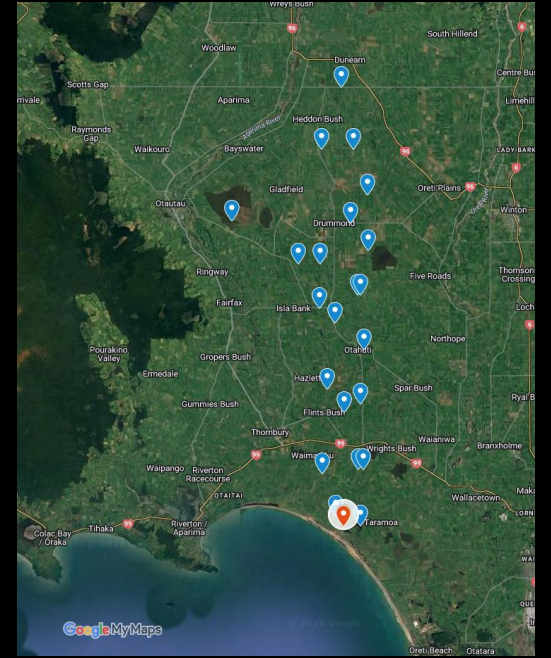
Site 1 Big Lagoon

eDNA: longfin eel, shortfin eel, common bully



Site 3 Long White Lagoon

eDNA: longfin eel, shortfin eel, common bully, redfin bully, brown trout (tentative)

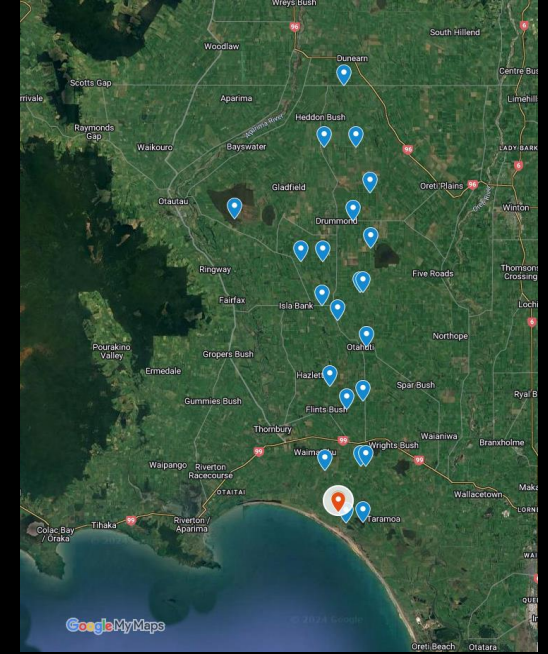


Site 4 Main stem of Waimatuku River at Rance Rd bridge

eDNA: īnanga, longfin eel, shortfin eel (tentative), lamprey (tentative), common bully, upland bully, redfin bully, flounder, brown trout

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 57 out of 100 (low scores for invertebrate habitat abundance, hydraulic heterogeneity, and fish cover abundance)

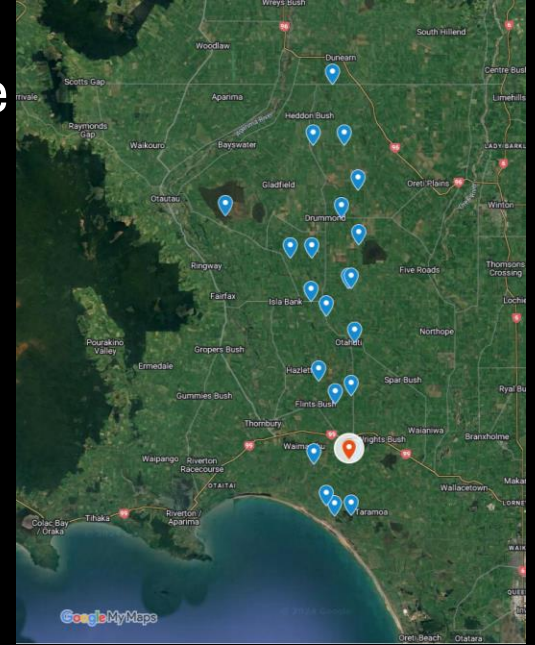


Site 5 Main stem of Waimatuku River at Waimatuku Township Rd bridge

eDNA: Gollum galaxias, īnanga, longfin eel, shortfin eel, lamprey (tentative), common bully, upland bully, redfin bully, flounder, brown trout, kōura (tentative)

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 44 out of 100 (low scores for deposited sediment, Invertebrate habitat abundance, riparian shade)

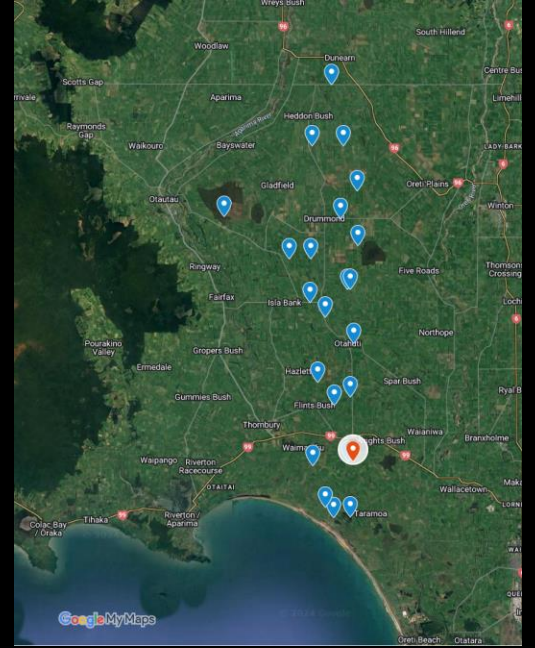


Site 6 Un-named tributary of Waimatuku River at Waimatuku Township Rd bridge

eDNA: Gollum galaxias, īnanga, longfin eel, shortfin eel, common bully, upland bully, redfin bully, flounder (tentative), brown trout

Fish passage assessment: High risk – 2 culverts, the original one is perched, the newer one is undersized, long and curved

Rapid habitat assessment score: 57 out of 100 (low scores for deposited sediment, invertebrate habitat abundance, hydraulic heterogeneity)

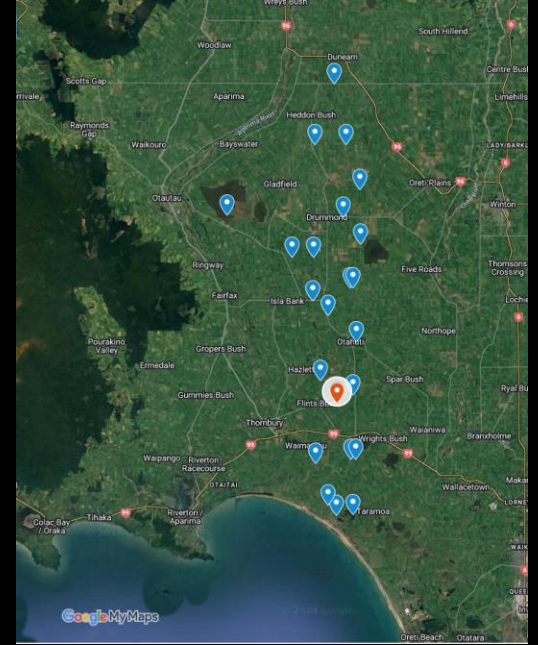


Site 8 Main stem of Waimatuku River at Fraser Rd bridge

eDNA: Gollum galaxias, īnanga (tentative), longfin eel, shortfin eel (tentative), lamprey (tentative), common bully, upland bully, redfin bully, flounder, brown trout, kōura (tentative)

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 45 out of 100 (low score for riparian shade)

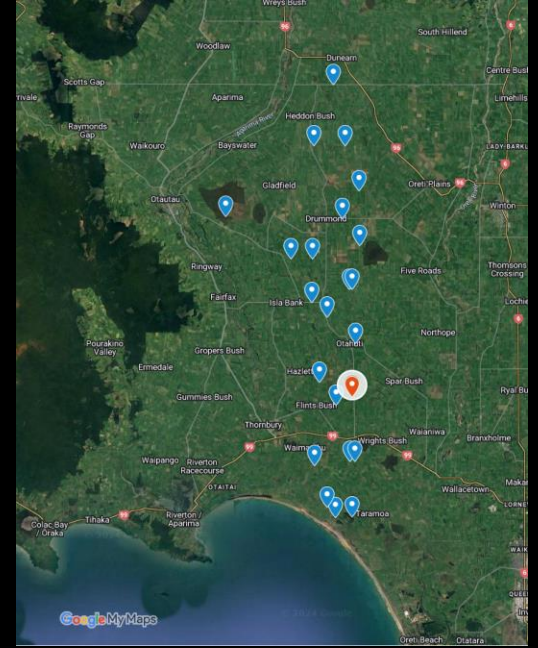


Site 10 Un-named tributary of Waimatuku River at Fraser Rd culvert

eDNA: Gollum galaxias, īnanga, longfin eel, shortfin eel (tentative), common bully, redfin bully (tentative)

Fish passage assessment: High risk – 2 culverts in line

Rapid habitat assessment score: 64 out of 100 (low score for hydraulic heterogeneity)

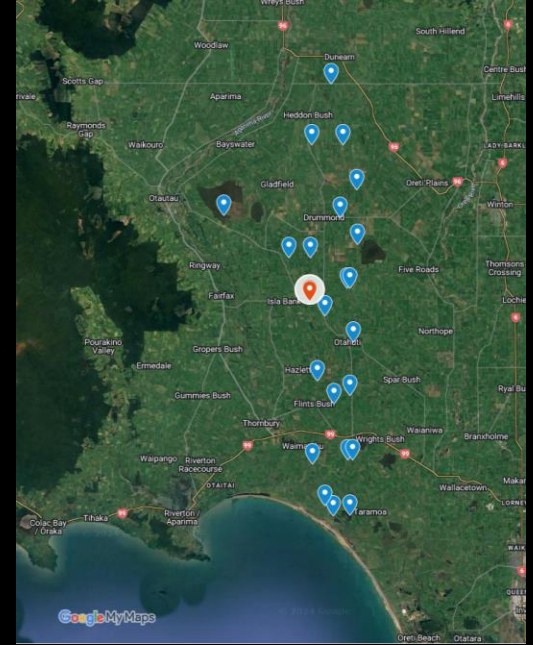


Site 13 Main stem of Waimatuku River at Fairfax-Isla Bank Rd bridge

eDNA: Gollum galaxias, īnanga (tentative), longfin eel, shortfin eel, lamprey (tentative), upland bully, redfin bully, flounder (tentative), brown trout, kōura (tentative)

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 52 out of 100 (low scores for invertebrate habitat abundance, hydraulic heterogeneity, riparian width, riparian shade)

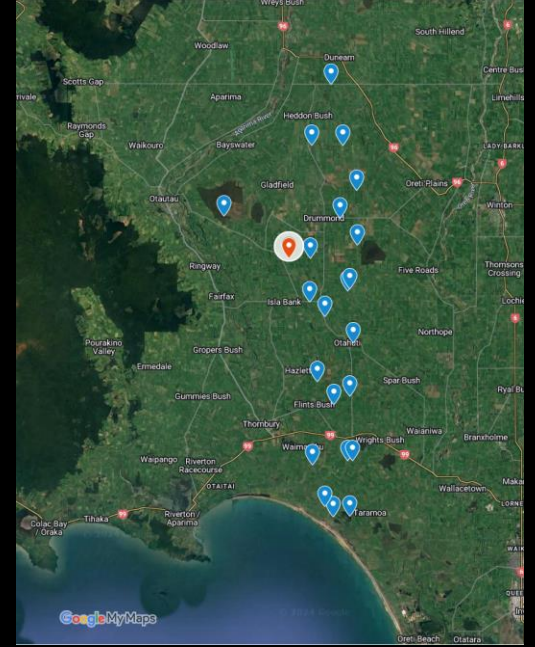


Site 16 Main stem of Waimatuku River at Robertson Rd bridge

eDNA: Gollum galaxias, longfin eel, shortfin eel, lamprey, upland bully, brown trout, kōura

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 51 out of 100 (low scores for invertebrate habitat abundance, hydraulic heterogeneity)

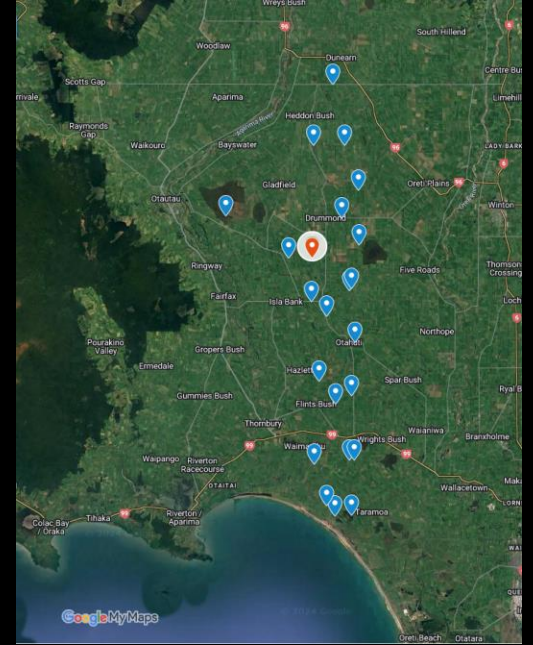


Site 17 Tributary of Waimatuku River at Robertson Rd bridge

eDNA: Gollum galaxias, longfin eel, shortfin eel (tentative), upland bully, redfin bully (tentative), brown trout

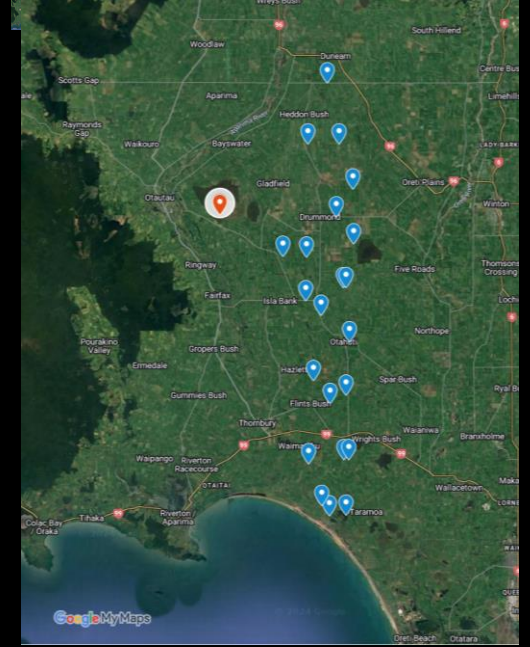
Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 43 out of 100 (low scores for deposited sediment, invertebrate habitat abundance, hydraulic heterogeneity, riparian width)

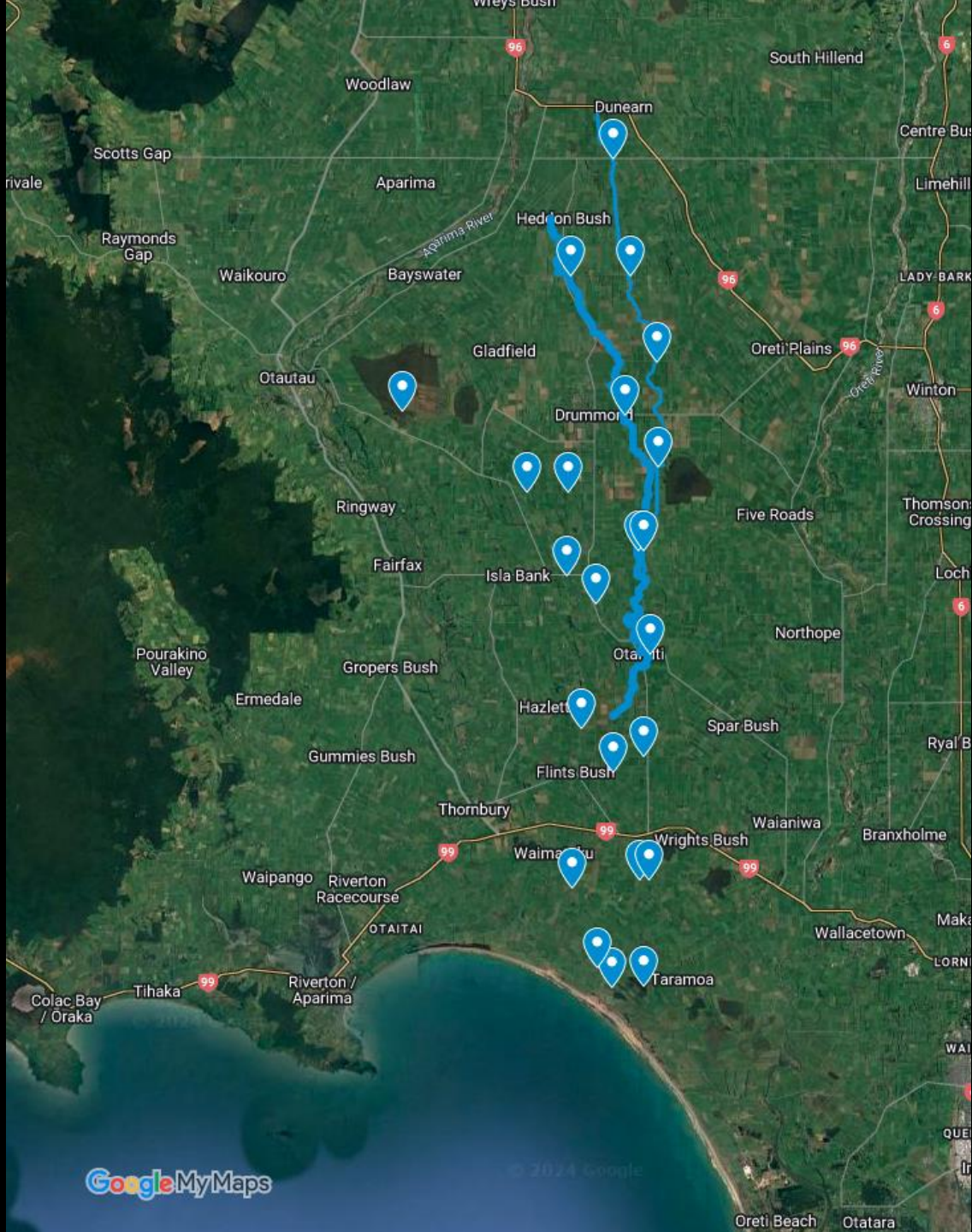


Site 18 Bayswater Peat Bog

eDNA: longfin eel, shortfin eel



Middle Creek and Ayr Creek

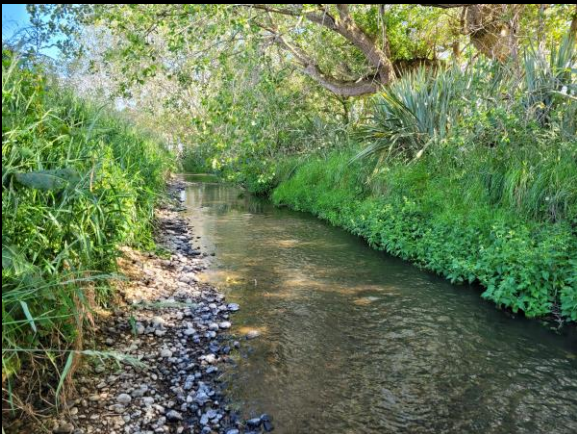
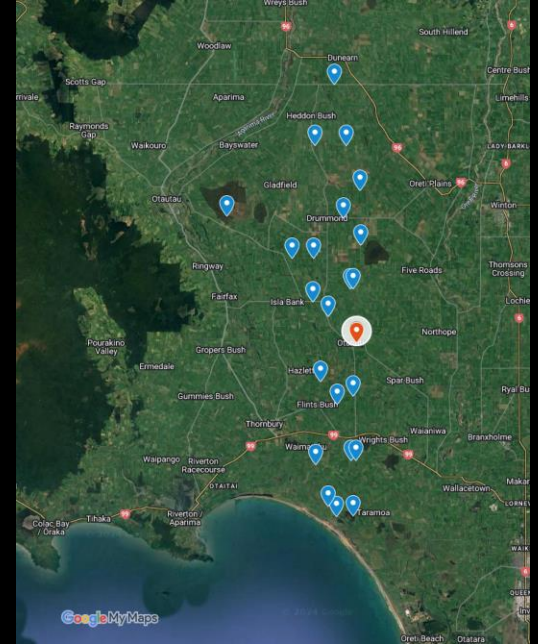


Site 11 Middle Creek at Argyle- Otahuti Rd bridge

eDNA: Gollum galaxias, īnanga, longfin eel, shortfin eel, common bully, upland bully, redfin bully, flounder, brown trout, kōura (tentative)

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 67 out of 100 (highest-scoring site, despite lots of algae)

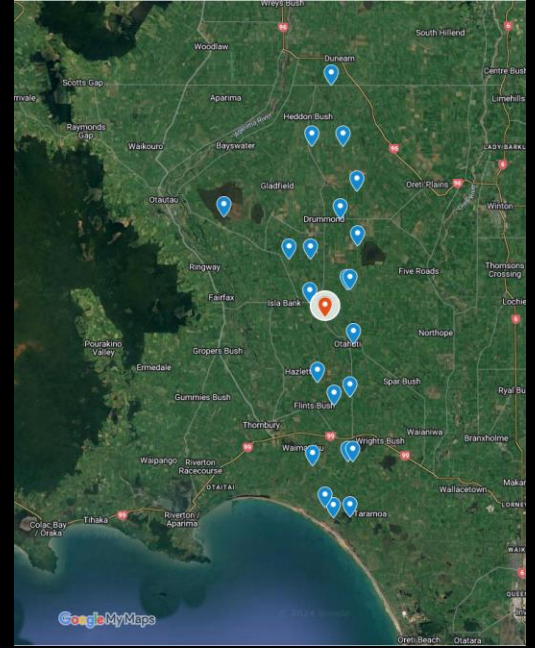


Site 12 Ayr Creek at Argyle-Otahuti Rd bridge

eDNA: Gollum galaxias, longfin eel, shortfin eel, upland bully, brown trout, kōura (tentative)

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 48 out of 100 (low scores for invertebrate habitat abundance, hydraulic heterogeneity, bank erosion, riparian width)

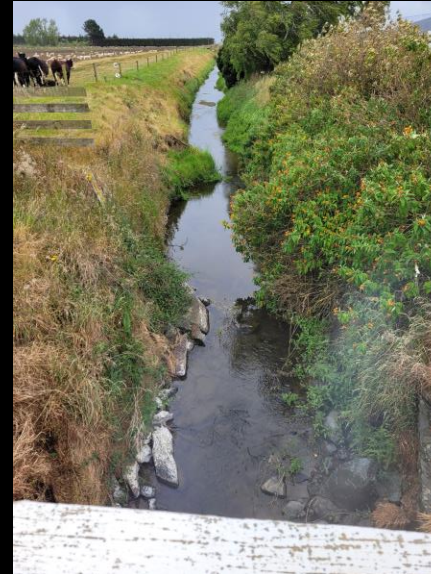
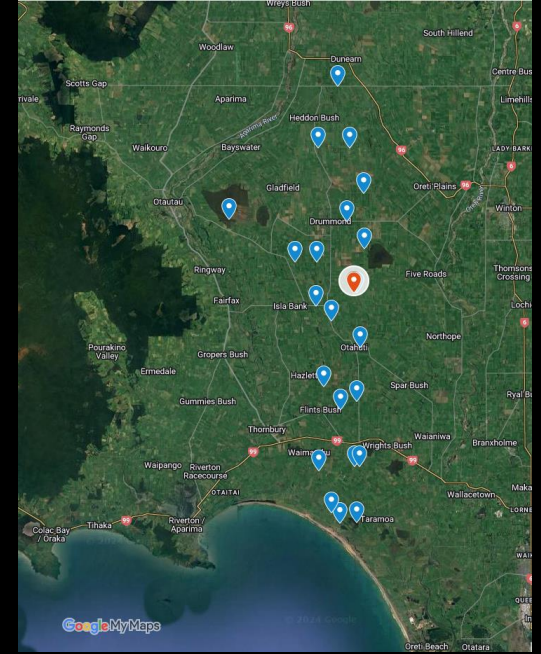


Site 14 Middle Creek at Young Pit Rd bridge

eDNA: Gollum galaxias, longfin eel, shortfin eel, lamprey (tentative), common bully, upland bully, redfin bully, flounder (tentative), brown trout, kōura (tentative)

Fish passage assessment: Very low risk bridge

Rapid habitat assessment score: 51 out of 100 (low scores for deposited sediment, invertebrate habitat abundance, riparian shade)

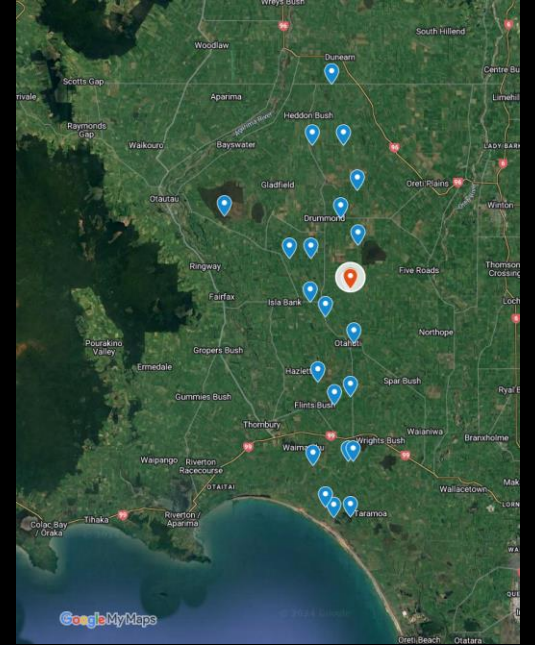


Site 15 Tributary of Middle Creek at Young Pit Rd culvert

eDNA: Gollum galaxias, longfin eel, shortfin eel, lamprey (tentative), upland bully, redfin bully, brown trout, kōura

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 50 out of 100 (low scores for invertebrate habitat abundance, hydraulic heterogeneity)

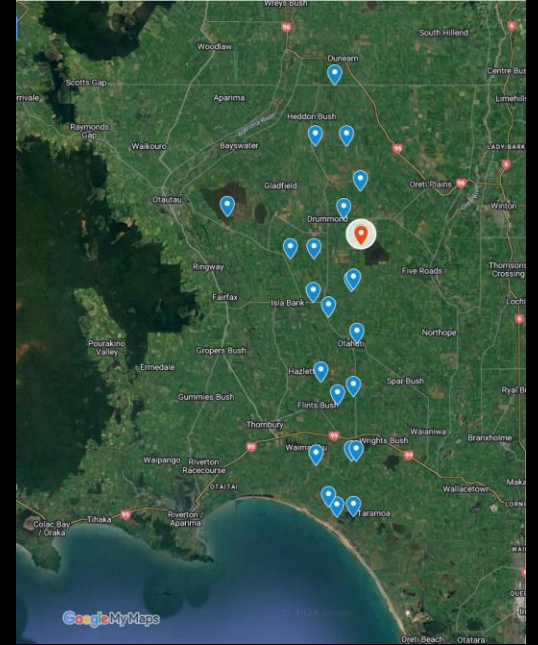


Site 23 Tributary of Middle Creek at Kennedy Rd culvert

eDNA: Gollum galaxias, longfin eel, shortfin eel, upland bully, redfin bully (tentative), flounder (tentative), brown trout

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 52 out of 100 (low scores for invertebrate habitat abundance, fish cover abundance, hydraulic heterogeneity)

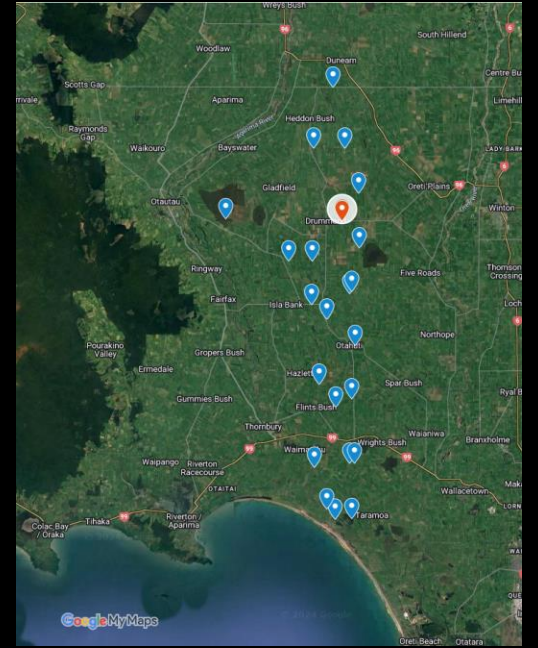


Site 22 Middle Creek at Drummond-Oreti Rd culvert

eDNA: Gollum galaxias, longfin eel, shortfin eel (tentative), upland bully, brown trout

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 61 out of 100 (low score for hydraulic heterogeneity)

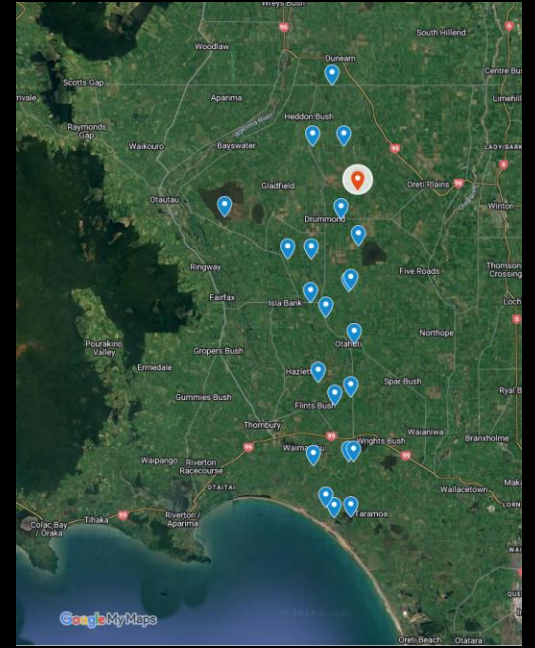


Site 24 Tributary of Middle Creek at Ballyhooley Rd

eDNA: Gollum galaxias, longfin eel, shortfin eel, upland bully

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 42 out of 100 (low scores for hydraulic heterogeneity, riparian shade)

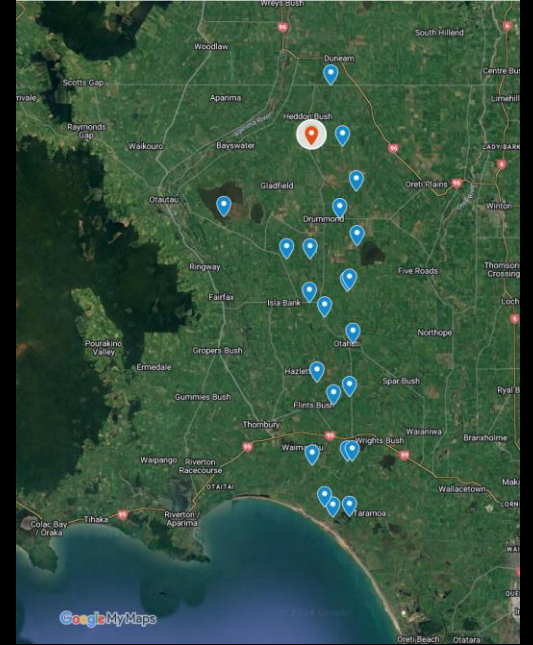


Site 25 Tributary of Middle Creek at Mayfield Rd culvert (west)

eDNA: Gollum galaxias, longfin eel, shortfin eel, upland bully (tentative)

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 42 out of 100 (low scores for deposited sediment, hydraulic heterogeneity, bank vegetation, riparian width, riparian shade)

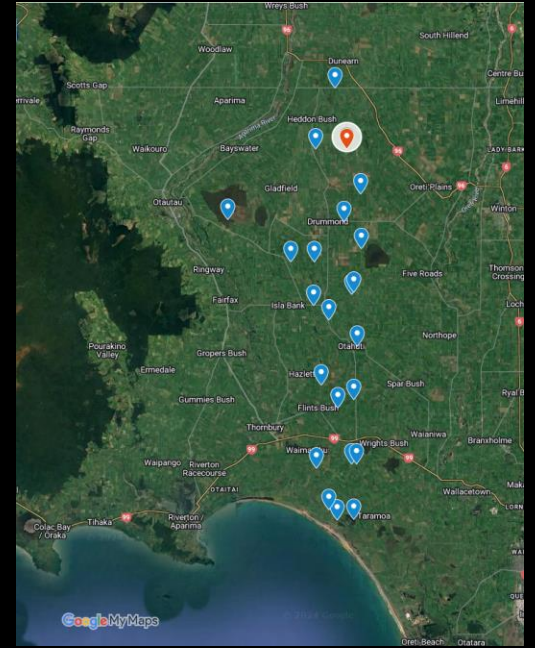


Site 26 Tributary of Middle Creek at Mayfield Rd culvert (east)

eDNA: Gollum galaxias, longfin eel, shortfin eel (tentative), upland bully

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 59 out of 100 (low scores for bank vegetation, riparian width, riparian shade)

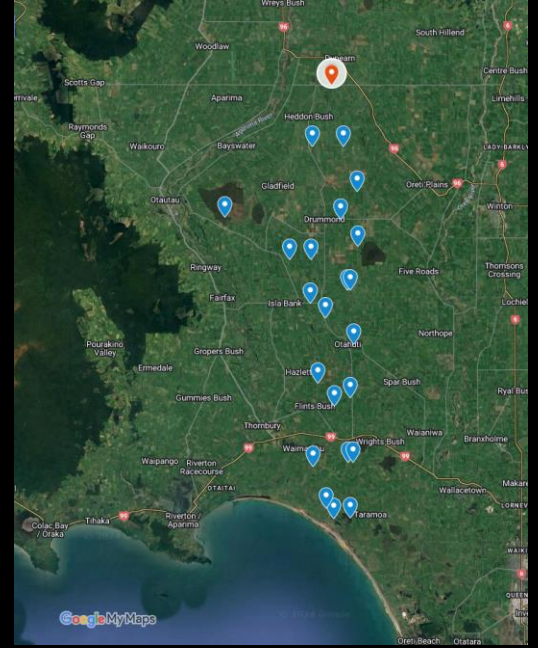


Site 28 Tributary of Middle Creek at Hundred Line Rd East culvert

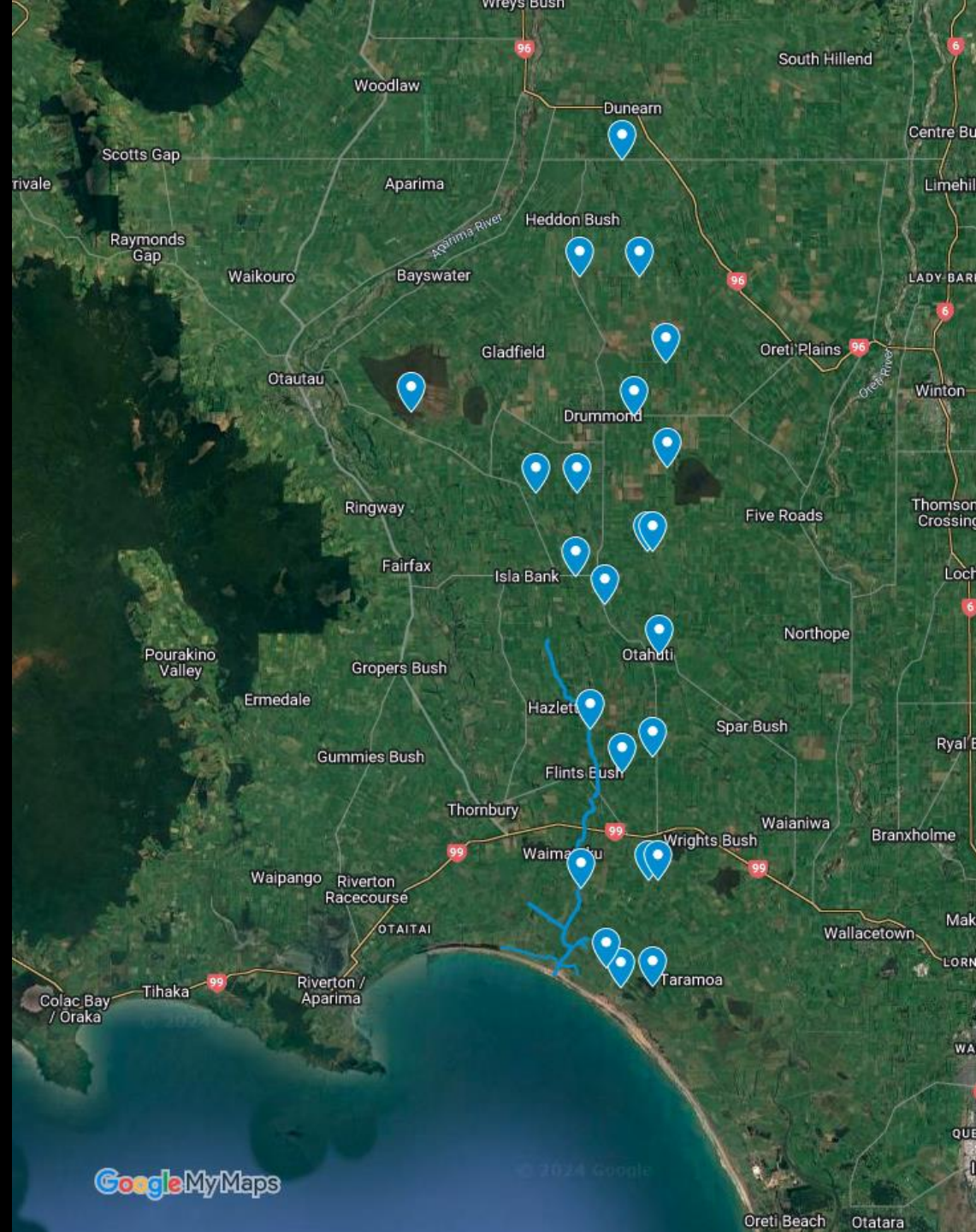
eDNA: Gollum galaxias, longfin eel, shortfin eel (tentative), upland bully

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 64 out of 100 (low score for hydraulic heterogeneity)



Taunamau Creek

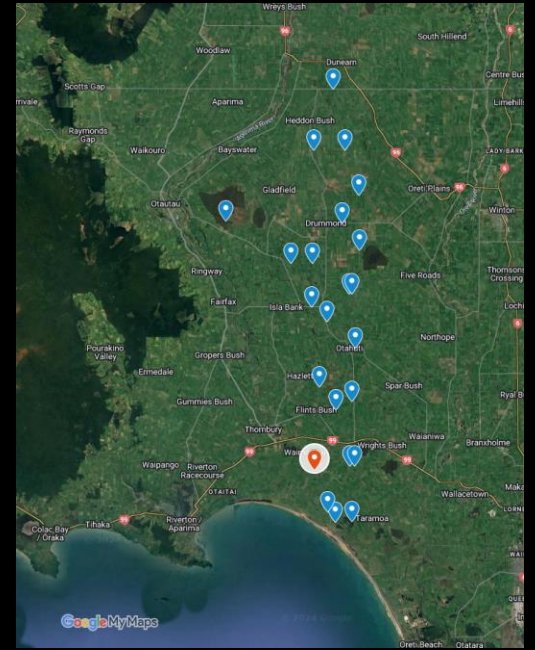


Taunamau Creek at Ross Rd culvert (downstream site)

eDNA: Gollum galaxias, īnanga, giant kōkopu (tentative), kōaro (tentative), longfin eel, common bully, upland bully, redfin bully, brown trout

Fish passage assessment: Very high risk culvert

Rapid habitat assessment score: 39 out of 100 - lowest-scoring site
(low scores for invertebrate habitat abundance, hydraulic heterogeneity, riparian width)



Taunamau Creek at Isla Bank-Flints Rd culvert (upstream site)

eDNA: Gollum galaxias, īnanga, giant kōkopu, longfin eel, shortfin eel, common bully, upland bully, brown trout

Fish passage assessment: High risk culvert

Rapid habitat assessment score: 59 out of 100 (low scores for invertebrate habitat abundance, hydraulic heterogeneity)

