

Continuous, in situ River Water Quality Monitoring

Current state of river water quality monitoring in New Zealand

- By regional authorities
- Periodic, typically once a month
- Expensive, so limited to key sites
- High quality data but available after weeks or months

EnLive's service is complementary

- Suitable for community groups, NGOs, iwi
- Continuous (every hour), in situ with an autonomous floating device
- Low cost, allowing monitoring of all rivers and streams
- Good enough data quality with data available in real-time

Parameters measured

pH, temperature, dissolved oxygen,
electrical conductivity

In next phase: nitrate, oxygen reduction
potential

Future: phosphorus, turbidity, others



New Opportunities

- 100% monitoring of New Zealand's rivers and streams now economically and technically feasible
- Real-time data allows new uses, for example fishing apps
- Insights into daily variations and adding other data sets, for example impact of rain on river water quality
- Farmers and landowners can demonstrate impact of their environment efforts
- Empowering community groups with real data for social impact