

Environmental Compliance Monitoring

WHO WE ARE

GWE Consulting Engineers is highly experienced in environmental, drinking water, wastewater, stormwater, geotechnical and civil infrastructure engineering, with an established and expanding capability in Environmental Compliance Monitoring. We work closely with project managers, planners, owners and operators to provide clients with the practical expertise and technical resources required to meet consent obligations and deliver successful projects.

Our team has the skill and experience to deliver compliance monitoring programmes across a range of specialist areas, including stormwater, wastewater and trade waste monitoring, surface water and groundwater monitoring, landfill and closed site consent compliance, site inspections and compliance audits, sampling and laboratory coordination, data analysis and regulator-ready reporting.

Our delivery is grounded in our LIFT values: we Listen to understand site context, stakeholders and consent constraints; Innovate to improve monitoring efficiency and identify practical, cost-effective pathways to compliance; Follow Through with rigorous fieldwork, documentation, sampling and verification; and Team Up with clients, contractors, laboratories and regulators to keep projects moving and outcomes defensible.

Our brand promise is clear: when others stall, we solve, bringing calm, clarity and rigour to complex sites and challenging consenting pathways. We do the hard work, so your project doesn't get harder.

WHAT WE DO

We provide end-to-end environmental compliance monitoring services across New Zealand. Our team delivers reliable field data collection, laboratory coordination, analysis and regulator-ready reporting to help ensure resource consent conditions are consistently met. Our expertise spans stormwater, wastewater and trade waste, surface water and groundwater, and landfill and closed site consent compliance monitoring across a wide range of sites and operations.

From routine quarterly projects to complex landfill and multi-site compliance requirements, our work is practical, evidence-based and focused on reducing risk while keeping operations compliant.

We undertake the following Environmental Compliance Monitoring work:

- Quarterly and annual stormwater compliance monitoring programmes, including sampling and reporting
- Wastewater and trade waste compliance monitoring in line with discharge consent conditions
- Biannual wastewater sampling and laboratory coordination
- Surface water and groundwater monitoring for complex sites, including closed landfills
- Annual and combined compliance reports summarising flow monitoring, sample analysis and maintenance records
- Site inspections and compliance audits
- Multi-site monitoring programmes
- Regulatory liaison, reporting and technical support

We deliver environmental compliance monitoring services across residential, commercial, industrial and community infrastructure projects in multiple regions across New Zealand, supporting clients to meet resource consent conditions and regulatory requirements.

We collaborate with carefully selected specialist partners, i.e. accredited laboratories and niche technical providers, whose work meets our standards, ensuring each programme is delivered with the appropriate expertise and robust quality assurance.

VALUE DELIVERED

- Independent, trusted environmental expertise
- Clear, regulator-ready evidence of consent compliance and performance
- High-quality, defensible data that reduces risk
- Tailored monitoring programmes aligned to site-specific consent conditions and operational realities
- Trend analysis and early identification of emerging issues before they become non-compliances

Environmental Compliance Monitoring

OUR SERVICES

Stormwater Compliance Monitoring

GWE provides short- and long-term stormwater compliance monitoring to support consent and regulatory obligations. Programmes are designed to deliver practical site inspections, environmental investigation and reporting, and clear identification of any compliance breaches, supported by corrective procedures where required.

Wastewater & Trade Waste Compliance

We delivers trade waste compliance monitoring in accordance with regulatory requirements, supported by site inspections, investigation and reporting, and regulatory liaison. This includes experience completing stormwater and tradewaste compliance monitoring with technical reporting to meet both client and regulator requirements, and preparing tradewaste permit applications where needed.

Surface Water & Groundwater Quality Monitoring

Our capability includes groundwater and stormwater investigation and monitoring, including targeted investigation of stormwater and groundwater where site conditions require it. GWE also drills temporary groundwater monitoring wells to support accurate groundwater level assessment as part of broader site investigations..

Landfill & Closed Site Consent Compliance

GWE undertakes contaminated land and closed landfill investigation, including targeted investigation of stormwater, groundwater, sediment and vapour/landfill gas, as well as supervision of works with validation sampling and post-works regulatory reporting where applicable. We provide gas compliance monitoring as part of our broader compliance monitoring services.

Sampling, Laboratory Coordination & Data Analysis

Our compliance monitoring services are underpinned by environmental investigation and reporting, with intelligent data analysis used to help clients develop strategies that can minimise monitoring requirements and reduce long-term compliance costs..

Regulatory Reporting & Liaison

We support compliance through regulator-ready environmental investigation and reporting, alongside regulatory liaison as required. This is reinforced by portfolio experience delivering technical reporting aligned to regulatory requirements for complex, multi-site operations.

Site Inspections & Compliance Audits

GWE undertakes site-based compliance assurance through site inspections and the identification of compliance breaches and corrective procedures. Separately, we provide environmental and safety auditing (EHS), including independent and systematic review, site audits/inspections and interviews, regulatory review, and identification of compliance gaps with risk prioritisation.

Multi-Site & Portfolio Programmes

We support portfolio-wide compliance management across multiple sites, including reviewing consents and permits, identifying compliance data gaps, and developing forward work programmes. Our services also include maintaining environmental compliance systems, delivering monitoring and reporting across sites, conducting targeted audits and updating environmental, stormwater and tradewaste management plans.

KEY PEOPLE

Gareth Williams, Director

Process engineer overseeing multi-disciplinary compliance programmes.

Colin Jowett, Technical Director

Environmental Services. Leading GWE's environmental compliance and monitoring capabilities.

Environmental Compliance Monitoring

RELEVANT PROJECT EXPERIENCE

KiwiRail – Portfolio Compliance Management (Nationwide)

GWE has been working with KiwiRail Holdings Limited for over 10 years. Since 2020, GWE has been supporting KiwiRail to strengthen environmental compliance and monitoring across its nationwide operations. Initially engaged to review consents and permits, GWE's role has evolved into an ongoing programme delivering environmental compliance, monitoring, and management services for multiple operational sites. GWE has updated KiwiRail's national environmental database to prioritise compliance activities and address data gaps. The team undertakes stormwater and trade waste monitoring, prepares technical reports to meet regulatory and client requirements, and conducts targeted site audits to assess compliance and identify improvement opportunities. GWE also develops and refines environmental, stormwater, and trade waste management plans, including updates to KiwiRail's national standard templates. The team prepares and negotiates trade waste permit applications with local authorities, securing practical and favourable consent conditions. GWE continues to help KiwiRail maintain strong environmental performance and embed continuous improvement across its operations.



Closed Landfill Compliance and Investigations, Waikato

Since 2022, GWE has partnered with the owners of a major privately owned landfill in the Waikato to deliver ongoing groundwater and surface water compliance monitoring. Situated near extensive protected wetlands and valuable water resources, the site presents complex subsurface and hydrological challenges. GWE has worked closely with stakeholders to optimise monitoring routines, review consent requirements, and assess more than 30 years of environmental data. Through this collaboration, GWE is helping transform the site from a legacy liability into a responsibly managed asset, while developing remedial pathways to support future land use opportunities.

Commercial/Industrial Manufacturing, East Auckland

GWE has been supporting a privately operated commercial and industrial food manufacturer in East Auckland to strengthen compliance with stormwater and trade waste requirements. The site features a complex catchment with multiple operational areas discharging through a network of catch-pits and interceptors to nearby estuarine waterways. Over the past three years, GWE has worked closely with the site owners to design, develop, and implement targeted improvements and management strategies that enhance discharge quality and compliance performance. GWE also undertakes quarterly monitoring to demonstrate ongoing progress and continuous improvement to the Council.

KEY PEOPLE

Gareth Williams, Director

Process engineer overseeing multi-disciplinary compliance programmes.

Colin Jowett, Technical Director

Environmental Services. Leading GWE's environmental compliance and monitoring capabilities.