

CQA

ENVIRONMENTAL ENGINEERS



Corporate
Qualifications
and Experience



CQA INTERNATIONAL

CQA International

A highly personal service from global engineering specialists



Experienced consultant, engineers, geologists, environmental scientists & QA/QC technicians

CQA was established in 1993 and now operates throughout the world, with offices in the UK and Azerbaijan.

Our team of 30 have been carefully selected to give us a breadth of experience across multiple engineering disciplines, providing us with both the technical expertise and practical ability necessary to focus on clients` requirements and to consistently understand and solve their problems.

We have a wealth of varied and diverse experience that includes the design, construction & closure of EU compliant landfills, waste management and recycling facilities, composting, incineration and mining infrastructure, and have worked with major waste management corporations, oil companies, government organisations, mining companies plus projects funded by the EU and World Bank.

We`re proud of the highly personal service we provide, and we know how highly that`s valued by our clients. Our senior team works on each and every project, spending time perfecting everything to make sure the end result meets the brief exactly.

Our Experience	Waste Management	Natural Resources	Environmental Remediation	Construction Projects	Energy
Feasibility & Planning Studies	✓	✓	✓	✓	✓
Environmental Studies & Monitoring	✓	✓	✓		✓
Conceptual & Detailed Design	✓	✓	✓	✓	✓
Planning & Permitting	✓	✓	✓	✓	✓
Contract Management & Supervision	✓	✓	✓	✓	✓
QA/QC & Compliance Verification	✓	✓	✓	✓	✓
Operational Assistance	✓		✓	✓	✓
Procurement	✓		✓	✓	✓



500 projects, 100 clients, 20 countries

Our client experience spans the globe, and we've delivered successful projects to each and every one.

CQA International has maintained strong performance and growth during recent years. The company is a safe partner with stable resources and finances.

It is up to date with statutory responsibilities and holds all necessary insurances for its business activities.

Contact us to discuss how we can help to implement pragmatic and cost-effective approaches to your projects.

Mining Water Resources

Waste Management

Geotechnical Engineering

Energy Oil & Gas

Environmental Remediation

Our worldwide clients include:

AGRIFOR Consult SA

AT Geotech

AIMROC

Azerbaijan International

Mining Company

Burlington Resources

BP

CH2M Hill

Chichester College

Cory Environmental Ltd

Crouchlands Biogas

Currie & Brown

Dames and Moore

D K Symes Associates

Enitial

ERT Caspian

Georgian Pipeline Company

GSE Environmental

Helsinki Consulting Group

Hyder International Mining

Consultants Ltd

IDOM

Kuwait Oil Company

Lamso Oil Ltd

Lawrence Graham Solicitors

Mackay and Schnellman

Ministry of Health of Azerbaijan
Republic

Ministry of Ecology of Azerbaijan

Montgomery Watson

Mutawa Trading Services

Norfolk Environmental Waste
Services

O'Callaghan Moran Associates

Veolia

Omex Environmental

Parkhill Reclamation Ltd

Pioneer Aggregates (UK) Ltd

Qatar General Petroleum

Company

RJB Mining Ltd

RMJM Architects

Rudall Blanchard Associates

State Oil Company of Azerbaijan

S & P Biogas

Tantalum Mining Corporation

William Boyer and Sons

White Young Green

Bespoke & Design - Build Containment Engineering Solutions

Only with CQA will you get a bespoke system designed around your needs, constructed to the strictest controls and completed with a full and comprehensive validation report that certifies that your facility is Fit for Purpose.

All works are carried out to the requirements of CIRA 736, CIRA 659 and LFE (Landfill Engineering) guidance.; the benchmark in containment engineering.

Services

- Advice at the pre-design stage
- Containment system design
- Turnkey Construction & Project Management
- Construction Quality Assurance (CQA)
- Review of existing designs
- Assessment of installed systems
- Regulatory negotiations
- Environmental Permitting Assistance
- Planning Applications
- Appeals and contractual claims
- Hydrological and geotechnical reports
- Environmental Impact Assessments (EIA)
- Leak Detection Testing
- Disaster Risk Modelling



Projects

Design & Build of Waste Water Treatment Plant, United Kingdom

Detailed design of a waste water treatment plant to process effluent from a poultry processor using biological treatment through means of an oxidation process.

CQA managed all aspects of design and agency negotiations that were required to have the containment system approved for construction.

The construction of the facilities was undertaken by CQA to allow full control of design to delivery.

The system offered an alternative to unsightly and expensive tank based alternatives.

Design Review and Construction Quality Assurance of Digestate Storage Lagoon, United Kingdom

CQA undertook a design review of a 3rd party design for a digestate storage lagoon which highlighted many areas which had the potential to compromise the facility.

Redesign of the leak detection system, stability risk assessment and design of agitation system was required amongst other areas.

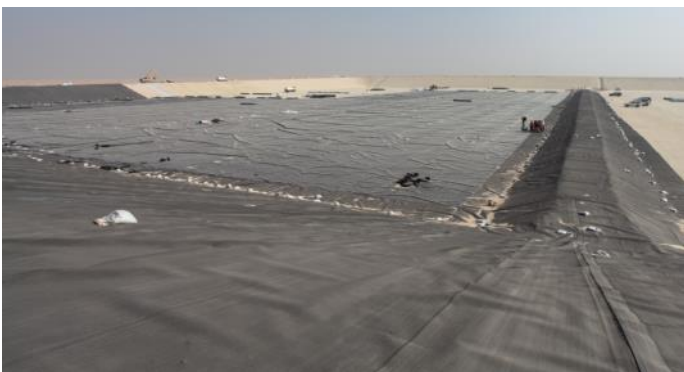
A comprehensive CQA Plan was issued and works were undertaken under full time supervision. On completion a validation report was issued which could be issued to the regulator or retained for future reference.

Waste Management

CQA provides you with a comprehensive consultancy service in waste management and related disciplines. Our team of highly qualified and experienced engineers are dedicated to delivering effective waste management solutions to suit your needs.

Services

- Collection, segregation, recovery, treatment, anaerobic digestion, composting, incineration, thermal treatment and landfill
- Recycling & life cycle assessment
- Hazardous, non-hazardous, inert, clinical and low level radioactive waste
- Waste planning, policy & strategy advice and submission of Local Development Documents
- Planning applications, applications for Development Consent and Environmental Impact Assessments
- Facilities design for sanitary landfills, hazardous waste facilities, transfer and recovery facilities
- Environmental permitting
- Risk assessments
- Waste producer audits and environmental due diligence
- Waste characterisation
- Construction Quality Assurance
- Site closure, remediation and post closure land re-use
- Waste to energy optimisation & infrastructure design



Projects

Municipal Waste Management, Turkey

An EU funded project included the construction supervision of 3 large regional landfill complexes with medical waste autoclave facilities, 2 leachate treatment plants, 10 waste transfer stations and the rehabilitation of 15 old dump sites.

CQA provided technical and contractual management of the construction contracts in addition to redesigning most facilities to suit actual conditions. CQA also provided input to the institutional strengthening tasks, such as waste collection routing, recycling initiatives & training.

Design and construction of an integrated municipal waste management facility, Romania

New waste management facilities were designed & supervised to support the introduction of an integrated waste management system. These included a new landfill site with leachate treatment, a large indoor composting facility and rehabilitation of an old dump site.

In addition to design, procurement assistance and contract management, CQA was involved with operational training & institutional support.

Facility closure, remediation & land re-use, Worldwide

CQA has been involved with the closure of multiple landfills and dumpsites across the world, often surrendering permits and designing post closure land use options such as for use as MRF's, composting facilities, energy parks and municipal open access facilities/parkland.

Environmental Remediation

CQA provides you with a comprehensive consultancy service in environmental remediation and related disciplines. Our team of highly qualified and experienced engineers are dedicated to delivering effective environmental remediation solutions in to suit your needs.

Services

- Phase 1 contaminated land desk studies including site reconnaissance
- Phase 2 intrusive site investigation including the assessment of land and groundwater contamination, gas and geotechnical testing
- Human health and environmental risk assessment
- Design and implementation of remediation schemes
- Environmental monitoring
- Management of materials including Qualified Person Declaration under the Definition of Waste Cope of Practice scheme
- Liability assessment
- Validation of remedial works
- Environmental permitting
- Environmental audits
- Expert witness



Projects

Remediation of mercury contaminated site, Azerbaijan

Many years of fugitive mercury releases from a chlor-alkali plant had created high levels of contamination in the ground and groundwater.

CQA designed and implemented a remediation programme to recover metallic mercury, safely dispose of process sludge and reduce mercury levels in water.

Technologies involved selective excavation, soil washing, design and construction of a hazardous waste landfill and batch treatment of water storage lagoons.

Hydrogeological assessment for oil field development, Pakistan

The development of an oil field in an arid mountain range with folded limestone strata presented potential risks to the sensitive natural water resources.

CQA`s task was to verify previous studies by making a reconnaissance of the hydrogeological features, including ephemeral streams and ponds, springs and irrigation systems.

The work involved the discovery of permanent freshwater ponds in a karstic landscape.

Landfill closure, permit surrender & land re-use, United Kingdom

Landfill closure works undertaken with analysis of monitoring data to allow permit surrender and alternative high value land re-use sought for an historic site within Heathrow Airport expansion zone.

Geotechnical Engineering

Our multidisciplinary teams of environmental chemists, hydrogeologists, geotechnical and civil engineers carry out investigations and assessments of potentially contaminated sites. Remediation options are costed, contracts let and the works supervised. Our integrated approach ensures cost effective and environmentally efficient solutions which consider fully the nature of the contamination sources.

Services

- Desk studies of the geology, hydrogeology, hydrology, site history and walk over surveys
- Planning, design and supervision of exploratory drilling, testing and sampling programmes
- Assessment of potential sites including material suitability assessment for the construction of low permeability barriers
- Design and construction of low permeability barrier systems based on engineered natural materials, artificial membranes and composite systems
- Detailed slope stability reports are tailored to meet the specific requirements of clients, the Environment Agency and other stakeholders
- Quarry design, slope design, assessment of current slopes and design of remedial work
- Materials testing & evaluation
- Supervision & inspection of earthworks



Projects

Geotechnical design for VIP villas in new ski resort development, Azerbaijan

The development of a new ski resort in the Greater Caucasus mountains involved the development of a range of accommodation facilities. CQA carried out the geotechnical assessment of cliff-top sites for the VIP villas.

The work involved:

- Engineering
- Geological Mapping
- Supervision of boreholes and laboratory testing
- Slope and stability analyses
- Derivation of design parameters
- Recommendations for construction methodology

Geotechnical study for mine and tailing facility, Russia

An international mining company was evaluating a prospect in northern Russia.

In addition to mineral resources, this involved feasibility studies for pit stability, tailings dam and infrastructure.

CQA personnel supervised the geotechnical site investigation during four months of the arctic summer, logging cores, carrying out field testing, correlating Russian and international laboratory test results.

Engineered Landfill

CQA provides you with a comprehensive consultancy service in landfill design and supervision. Our team of highly qualified and experienced engineers are dedicated to delivering effective solutions to suit your needs.

Services

- Ground investigation and assessment
- Facility design and assessment
- Non-standard engineering design including steep wall lining systems
- Dump site regeneration
- Environmental impact assessment
- Applications for planning permission and Development Consent
- Environmental permit applications
- Gas control, collection and utilisation
- Leachate control, collection and treatment
- Hydro-risk assessments and design of containment and soakaway features
- Construction quality assurance
- Monitoring, data assessment and audits
- Restoration, closure and alternative land use
- Risk and environmental liability assessment
- Surface water management



Projects

Landfill design, construction supervision & reporting, United Kingdom

Detailed design of numerous landfill construction and closure projects to EU (UK) standards for large multinational clients.

Contract and construction management of multiple simultaneously occurring projects, including QA and compliance reporting.

Works include construction of cells, steep wall lining systems, piggyback cells, capping & closure systems, leachate treatment facilities, gas management and more.

Hazardous Waste Landfill design, construction, supervision, testing & reporting, Kuwait

Detailed design of hazardous waste facility totalling over 4million m³ storage capacity for oil contaminated sands left as a legacy of the invasion of Kuwait.

Project involved complex design maximising available resources and ability to work in harsh desert conditions.

Engineers were utilised from both UK and Azerbaijan offices to undertake comprehensive CQA of the project.

Large cost savings achieved by using alternative locally sourced materials



Mining & Quarrying

CQA provides you with a comprehensive consultancy service in mining and related disciplines. Our team of highly qualified and experienced engineers are dedicated to delivering effective solutions in mining to suit your needs.

Services

- Feasibility studies & due diligence
- Planning schemes
- Geotechnical design & investigation and assessment
- Mine & infrastructure design and assessment
- Tailings storage facility design
- Containment system design and construction supervision
- Environmental assessment
- Ecological assessment
- Hydrology assessments & water balance
- Waste management strategy
- Resource technologies
- HSE audits
- Expert witness
- Surface water management, storage and discharge
- Infrastructure design & optimisation



Projects

Gold mine infrastructure design & construction supervision, Azerbaijan

CQA has designed a series of leach pads and lagoons for the extraction of gold from crushed ore. Ground conditions were difficult due to the mountainous terrain, and the designs include mitigation against hazards such as landslip, erosion, extreme weather and earthquakes. The company has also designed and supervised one of the worlds largest tailings storage dams and slurry pipeline. Other works undertaken include stability assessment of an underground mine and open pit faces, permitting study and assessment of mountain access roads.

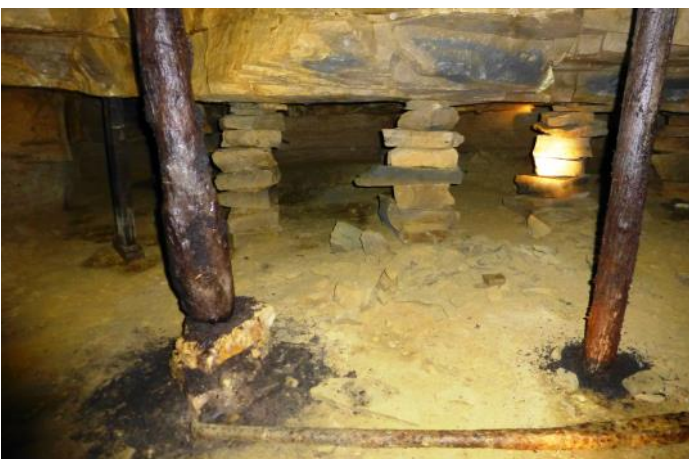
Re-opening of historic underground slate mine, United kingdom

CQA undertook full planning and design of an historic underground mine to allow the historic process of extracting Collyweston slate to be mined and used on buildings of local and national importance.

Works included undertaking a detailed feasibility study, comprehensive geotechnical design, managing the entire planning process, EPS licence and HSE requirements.

The mine was one of only very few to reopen and reinstate traditional crafts using modern techniques over the past many years in the United Kingdom.

Ongoing assessments ensure safe working practice is maintained and extraction is optimised.



Flood Risk & Hydro-Geology

CQA has extensive experience of consultancy service in flood risk, hydro-geology, water storage and management. Our team of highly qualified and experienced engineers are dedicated to delivering effective solutions in water resource management to suit your needs.

Services

- Water resource assessment and development
- Hydrogeological investigation, modelling and risk and impact assessments
- Aquifer and surface water protection
- Surface water and groundwater monitoring
- Flood risk assessment and the design of water management schemes
- Wastewater treatment
- Tailings storage facility design
- Coastal & Marine
- Groundwater Contamination & Remediation
- Surface water runoff, storage and infiltration modelling
- Storage and infiltration design
- Treatment system design
- Discharge consent permitting



Projects

Gold mine water balance, hydro risk assessment and tailings pipeline, Azerbaijan

CQA has undertaken modelling and reporting on the flood risk and water balance requirements for a large mining company in the Caucasus where flash flooding and extreme dry events are typical.

The modelling covers an area of over 10 square miles and water resources are critical to the efficient operation of the processing facility and to ensure tailings storage facilities are correctly managed.

Additional design work was required to assess the groundwater drainage characteristics for the design of one of the worlds largest tailings storage facilities and for a 10km pipeline which feeds the TSF from the processing facility.

CQA designed both river diversions and culverting of multiple major and minor streams with huge variances in flow.

Surface water management design for landfill closure, United Kingdom

CQA successfully designed a surface water management system for the highest landfill site in England where annual precipitation is frequently in excess of 1750mm/yr.

The design included for scour protection, sediment traps and soakaway features to ensure that a non-pumped solution was sought with minimal management, all modelled in 3D and built with full Construction Quality Assurance supervision.

Our Resources

A consultancy company's key resources are its personnel



CQA International's staff & Associates comprise 30 highly qualified and experienced engineers, scientists & technicians, with full administrative support.

CQA has a low rate of personnel turnover and so the benefits of previous project experience remain in the company.

Complementary services, such as; pipeline hydraulics, health care design and financial resources assessment have been provided by working with well established Associates and carefully selected partners.

Whenever required, the work is carried out in multidisciplinary project groups consisting of engineers, institutional experts, economists, chemists, biologists, sociologists, geologists, hydro-geologists environmental lawyers and communication specialists.



Andrew Leach

CEO and Senior Consultant

40 years' experience in mining, waste management and environmental services

Peter Stevens

Managing Director

30 years' in environmental geology, hydrogeology experience and geotechnical engineering

Andrew Hall

Director and Regional Manger, Azerbaijan

12 years' experience of environmental engineering for mining and remediation projects

Darren Bland

Director, General Manager, UK

10 years' experience of environmental engineering on waste management and contaminated land projects

Robert Stevens

Senior Environmental Engineer

25 years' experience of environmental engineering and design in mining, waste management, oil sector and water quality

Martin Avery

Manager and Geotechnical Engineer

10 years' experience of CQA design surveying on landfill and mining projects

Ismail Eyvazov

Senior Engineer

40 years' experience in construction engineering in the civil, mining, waste management and oil sectors

CQA International

For a pragmatic and cost-effective solution to your problem call our team



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Contact: Andy Hall, Director/Regional Manager

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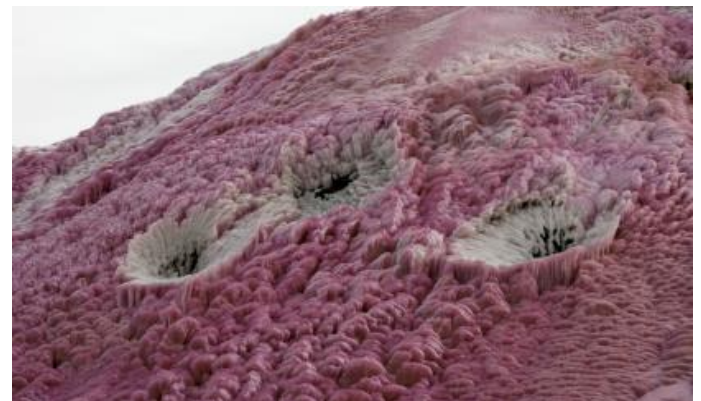
We will be pleased to provide further information such as:

Commercially binding proposals

Expressions of interest & SOQ's

Detailed project descriptions

Detailed curricula vitae



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