









QUANTITY SURVEYORS / CONSTRUCTION ECONOMICS





/ BQH provides dynamic cost planning, value management and project control using tested methods and practical experience. With our advice, you can confidently plan and execute your project with a firm understanding of cost and value.

QUANTITY SURVEYORS

BQH Limited is an independent New Zealand based quantity surveying firm. Our broad range of skills promotes value for money and protects client interests in the built environment. BQH Services are delivered by highly skilled, motivated and experienced people in a professional framework that provides peace of mind to clients, colleagues and collaborators.

/ CONSTRUCTION ECONOMICS

Our primary focus is management of financial processes in construction projects. Our professional approach provides certainty throughout the project life cycle. From recommending strategies to determining budgets or approving payments we have proven techniques for ensuring accuracy, consistency and transparency.























/ PRINCIPLES

At BQH we take our professional responsibilities seriously. This means we have an infrastructure in place to protect and promote the interests of our clients and colleagues on all projects. Specific aspects of this infrastructure include:

- Our project teams are led by qualified, experienced people
- We are professionally and personally ethical in all our dealings
- Details of PII and PLI can be provided to on request
- Services are delivered by a team, meaning built-in peer review
- Quality is assured with efficient and documented procedures
- All of our people are site-safe accredited
- Sustainable solutions are a key part of our thought process
- · We take care with your information and our records with modern, robust infrastructure
- We use specialised software capable of 2D and 3D takeoff and BIM mapping
- We have a substantial archive of cost data across a wide range of industry sectors.
- Our people participate in industry and professional groups



/ HISTORY

1984 2000 2021

New Zealand

The practice was restructured and expanded nationally. Martin Quartermaine and Patrick Hanlon joined in 1993 and 1994 respectively.

Multinational

The practice became part of a multinational with offices in 20 countries and over 400 professional quantity surveyors. Local members gained international experience.

HISTORY

Southland

Our story began in 1977 with our first consulting QS office opening in Invercargill.

Australia

In 1996 Patrick transferred to an associated multi-national firm in Sydney while the practice continued to grow locally.

Independence

Our international partner exited as they were acquired by a PLC. BQH was chosen as our new brand, underscoring continuity, tradition and accessibility.

1977 1996 2009







BQH people hold competency based membership of national, regional and global professional societies.

This means we have completed academic qualifications, post-graduate training and experience requirements and that we have been elected by our professional peers based on an assessment of competence. It also means we maintain our skills through continuing professional development and life-long learning programmes.

/ BQH Limited is an independent New Zealand based quantity surveying firm with history spanning five decades, from the 70s forward.

PATRICK HANLON / DIRECTOR



MBA MB(CE) BB(CE)(Hons) FRICS FAIQS CQS FCIOB MNZIQS Reg. QS QS Since 1993 NZ Australia LIAF

CLARE WOOD

/ DIRECTOR



B.Const(QS) B.Sc(Geo) GradDipEng (C&E) MNZIQS MRICS Green Star Practitioner QS Since 2015

TIAAN VAN HEERDEN

/ DIRECTOR



B.TECH(QS) MNZIQS Reg. QS MRICS QS Since 2009

RICHARD VAN ZYL
/ DIRECTOR



B.Sc(QS) (Hons) MRICS Reg. QS, MNZIQS QS Since 2005

MARTIN QUARTERMAINE
/ EXECUTIVE CONSULTANT



B.Sc(QS) FRICS MNZIQS Reg. QS QS Since 1971 NZ, UK

RORY LEONARD

/ REGIONAL MANAGER



B.TECH(QS) MRICS MNZIQS Reg.QS QS Since 1995 SA N7















IAN MORTON / REGIONAL MANAGER



QS Since 1980 NZ, UK, UAE, South Africa

RICHARD MEAKIN / SENIOR ASSOCIATE



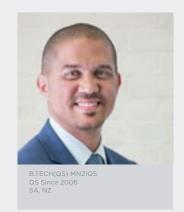
TANYA TAN / ASSOCIATE



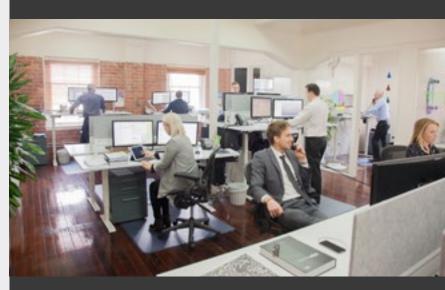
CHRISTINE LAW / ASSOCIATE



SHAUN JARMANN / ASSOCIATE



We participate fully as members of the project team. By leveraging knowledge gained from national and international projects, we help you optimise value, competitively.



www.BQH.co.nz



/ PEOPLE (CONT)

/ Our project teams are led by qualified, experienced people. We maintain comprehensive ethics policies and maintain insurance to protect client, company, and public interests.



APRIL LIN
/ QUANTITY SURVEYOR



B.Const(QS) B.Art NZIQS(Affli) QS SINCE 2019

CAITLIN RUSLING
/ QUANTITY SURVEYOR



SINEAD GRADY-JONES

/ QS TECHNICIAN



DARIA FECHNEY

/ OFFICE MANAGER

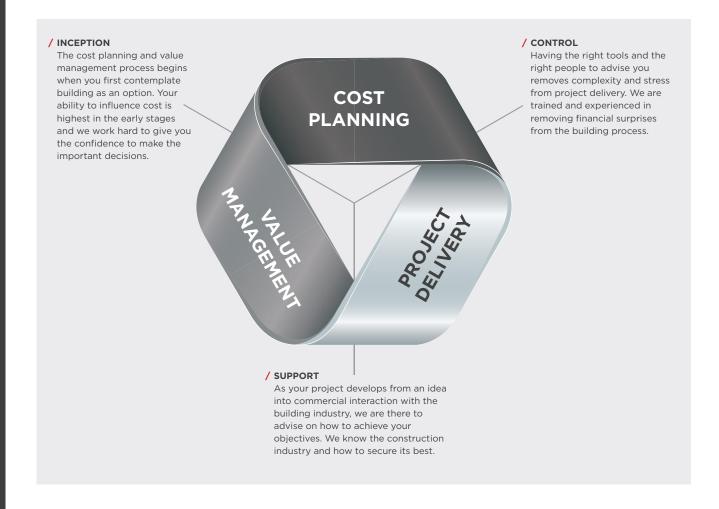




Working from
a construction
economics and
quantity surveying
base, we provide
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/ SERVICES

Our primary focus is management of financial processes in construction projects but our professional interest extends throughout the property life cycle. From recommending strategies to determining budgets or approving payments we have proven techniques for ensuring accuracy, consistency and transparency.







PROJECT STRATEGY

Monetary and non-monetary cost-benefit analysis

Feasibility studies, bulk and location estimates

Site selection studies, comparative estimating

End user / tenant acquisition support, fitout / base building cost calculations

Value engineering including time, cost, quality analysis



PROCUREMENT

Procurement strategy - Analysis of ECI, D&B, Traditional, Management opportunities

Tender lists / pre-qualification questionnaires and evaluation

Tabulation and documentation of tag / qualification resolutions

Reporting on tender costs including risks and unit rate effects

Recommendations for selection of tender bids



LIFE CYCLE COSTING

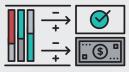
Analysis of whole life of options for sustainability and value engineering

Quantification of Capital, Maintenance, Cleaning, Energy, Replacement and other costs

Discounted cashflow analysis to establish net present value and break even points

Calculation of sinking fund contributions and Long Term Maintenance Funds

Sensitivity analysis for funding costs, cyclical durations



COST PLANNING

Estimate development through concept, preliminary, developed, detailed design

Budget reconciliation and cost control advice

Elemental, trade, resource, functional estimate presentation

Cashflow forecasting, earned value analysis and comparison

Cost allocation and cost centre / budget format establishment



POST CONSTRUCTION

Replacement cost / sum insured valuations

Depreciation schedules and asset registers

Lease reinstatement, end of lease cost negotiation

Operational budgeting and estimating

Long term maintenance fund estimates



TRAINING AND EDUCATION

Mentoring under NZIQS partnership scheme

Lecturing in Measurement and Estimating for United degree programme

Commercial management training to construction firms

Assessors, chairs, mentors and supervisors for APC candidates

Contribution to industry forums



CONTRACT ADMINISTRATION

Construction Contracts Act 2002 / CCA Amendment Act 2015 compliance

Payment schedules, progress valuations, interim assessments, final accounts

Variation price assessment and negotiation, entitlement and contract review

Time related cost calculation, delay and disruption assessment

Financial reporting budget vs. forecast, cost control recommendations



EXPERT WITNESSES

Qualified, experienced, recognised experts

Track record in CCA adjudication, high court trials, arbitration, mediation

Advice on costs (quantum), industry economics and practices

Practitioner perspective on application of contract terms

Evidential quality, referencing published and unpublished knowledge base



BUILDING REMEDIATION AND LEAKY BUILDINGS

Experience 250 projects costing over \$1.2 Billion in the past decade

Large cost database drives faster recognition and solutions

Apportionment of costs for UTA s.74 schemes

Work with MBIE on Financial Assistance Package (FAP) projects

Certification of project establishment and funding drawdown for escrow



RISK MANAGEMENT

Monte Carlo simulation using Pallisade Decision Tools (@Risk)

NZS4360 risk management process, register establishment and input

Quantification of financial magnitude of risk events

Data analysis and benchmarking to establish reasonable contingencies

Crime prevention through environmental design (CPTED) cost quantification



BUILDING INFORMATION MODELLING (BIM)

iTwo CostX certified partner - benchmark for BIM in quantity surveying

Production of basic models in-house for geometry and measurement

Familiarity with Revit, Archicad and other modelling formats

BIM used for estimates, schedules, measurement checks, contract admin

Standard operating procedures, coding and phraseologies



SUSTAINABLE PRACTICES

GreenStar accredited professionals and practitioners

Advice on targeting free and cheap
GreenStar points

Estimate / value engineer to lower sustainability costs

Comparative assessment of whole-life costs

Quantification of recycled / sustainable content



CONTRACT DOCUMENTATION

Schedules (Bills) of Quantities to ANZSMM-2018 and NZS4202: 1995

Estimation of provisional quantities for contingent work / re-measurement

Selection of general and special conditions of contract

Collation of contract document set, recommendations on content

Issue of digital files to facilitate tender process and pricing



ENGINEER TO THE CONTRACT

Industrial, residential, education, commercial, remediation, public facilities

Suite of communication templates developed over many years

Specific training in NZS3910 and acting as an engineer to the contract

Problem solving approach - mitigation, value engineering, rapid resolution

Acceleration / prolongation analysis, responsive approach to notices



BANK / FUNDING CERTIFICATION

Initial reporting and construction project reviews

Progress drawdown reporting

Cost to complete, progress against targets

Escrow establishment and drawdown reporting

Advice on market conditions and project risks



VALUE MANAGEMENT

Multiple criteria value quantification time / cost / quality

Life cycle cost and discounted cashflow analysis

Change management / assessment of external impacts

Value for money analysis

Identification of premiums and opportunities

/ COMPANY INNOVATION

3D SCANNING	METHOD: We use the Matterport 3D scanning system to create measurable 3D models of buildings. The 3D models we create are convertible to point clouds and IFC models.	OUTCOME: Fast compilation of as-built site surveys, accurate records for insurance and dilapidation.
GOPRO	METHOD: Our Gopro Max 360 degree cameras are used for progress payment inspections and for general record-keeping.	OUTCOME: Detailed progress records, accelerated site inspections, desktop review and response to questions.
LASERS	METHOD: We use Bosch laser range finders for site measurement.	OUTCOME: Accurate measurement and reduced site resources – faster measurement, no requirement for assistant to hold tape ends.
BIM	METHOD: The primary tool we use for BIM is CostX, which allows model mapping and harvesting of quantities based on object properties. We also use Autodesk products to inspect and review designs.	OUTCOME: Better understanding of building geometry and layout, accelerated measurement and bulk checking of 2-dimensional measures; Improved accuracy and coverage with enhanced reporting and presentation.
DRONE	METHOD: Aerial video and photo records are provided with our DJI drones.	OUTCOME: Safer site inspections, particularly for building envelopes and scaffolding; accurate record keeping and ability to inspect inaccessible areas.
EXCEL	METHOD: Excel is among the most frequently used tools in quantity surveying offices. We require all staff to attend a consecutive series of formal skill development and maintenance courses.	OUTCOME: Improvements in data analysis and ability to analyse and compile wide ranges of scenarios.
@RISK	METHOD: We use Palisade @Risk software for quantitative random number risk simulations (Monte Carlo analysis).	OUTCOME: Modelling effects of changes in quantity, rate, timing and other variables in building projects to understand and determine ranges of possible outcomes and make informed contingency recommendations.
COSTX	METHOD: Since 2009, we have worked with iTwo (formerly Exactal), the makers of CostX quantity surveying software. Our firm has achieved "CostX Certified Partner" status and features in CostX advertising literature.	OUTCOME: Consistent estimating and presentation including standard phraseology libraries, indexed historical rate database and bespoke templates. Reduced risk in contract documentation through standardisation and familiarity.
SKETCHUP	METHOD: Where design documentation is unavailable, such as for proposed renovations, we create our own three-dimensional models in Sketchup.	OUTCOME: Enhanced understanding of building geometry, greater accuracy in quantities and accelerated estimating process.

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	CLOUD	METHOD: Our databases, files, applications and correspondence are hosted on commercial cloud servers, secured with two factor authentication. We also host our own cloud servers for specialist software and remote access.	OUTCOME: Ability to work anywhere - office, home, site, in transit; full access and functionality, managed knowledge, tools and applications for consistent service and robust record retention.
	MOBILE	METHOD: All BQH staff are provided with Microsoft surface and Apple iPhone devices.	OUTCOME: Internal and external collaboration using widely compatible systems.
1	HOME	METHOD: Staff are provided with furniture and equipment for home offices.	OUTCOME: Business resilience and service continuity, improved lifestyle and health, reduced commute burdens, comfortable and productive remote working.
-	DASHBOARD	METHOD: Our company vehicles are equipped with Dashmate Dual (front and rear) cameras.	OUTCOME: Safety and record-keeping, complaint handling and accident documentation.
*	VIDEO	METHOD: Meeting rooms, workstations and home offices are equipped with high-quality video-conferencing hardware.	OUTCOME: Remote meeting attendance, full team meetings with staff in office, at home and elsewhere; reduced travel requirements, improved health and safety.
ĹĨ	STANDING	METHOD: Motorised standing desks are standard equipment in all BQH offices.	OUTCOME: Collaboration improvements, healthier posture, reduced stress and fatigue.
	TRAINING	METHOD: Our main work areas are equipped with a large screen visible from all desks for training, conferencing and information.	OUTCOME: Participation in group training from comfort of own desk, participating in important events (news, sports, amusements); shared experience and better job satisfaction.
NZGBC Namber 3071–2002	SUSTAIN- ABILITY	METHOD: Many of our staff are accredited greenstar professionals and practitioners.	OUTCOME: Understanding of important initiatives improving the quality of buildings, ability to provide expertise to internal and external teams for implementation.
MITE IS MAPE	SAFETY	METHOD: We are a long standing member of site safe, Impac Prequal certified and ACC accredited.	OUTCOME: Well-trained, well-equipped and above all, safe staff.



PANALPINA

Completed 2014: 4,000 m2 Warehouse / office facility

FLEX II

Completed 2015: 7,500 m2 multi-unit industrial park



ST HELIERS PROJECT **ENDEAVOUR**

Completed 2010: 1600m2 school building, plus administration block



SCHOOL

Completed 2015: New integrated classroom / administration / library and standalone hall buildings



Completed 2014: Public library by JASMAX with art by Nic Moon



CEVA

Completed 2015:

7,000 m2 office / warehouse and 4,000 m2 warehouse extension



DUPLEX

Completed 2015: 7,000 m2 Duplex industrial facility



WESTLAKE GIRLS HIGH SCHOOL

Completed 2003+: Many projects including 29 classroom block



CLAYTON PARK SCHOOL HALL

Completed 2015: School hall, reception and administration building to replace existing



WARKWORTH JUNIOR SCHOOL

Completed 2016: 16 MLE teaching spaces, new administration and school hall



HELLMANN WORLDWIDE LOGISTICS

Completed 2015: 14,000 m2 Warehouse / cold store / office facility

DATAMAIL

Completed 2008: 7900m2 warehouse and office building



BLOCKHOUSE BAY INTERMEDIATE

Completed 2014: Slab-up rebuilds, new blocks, renovations



KERERU PARK SCHOOL

Completed 2014: Administration and library building replacement



ST CUTHBERT'S COLLEGE **CENTENNIAL CENTRE**

Completed 2014: Pools, Gym, Student Counselling



Completed 2014: 7,000m2 post-quake commercial facility in Christchurch



Completed 2005: Retail and commercial space along with parking for adjacent church



LATITUDE FINANCIAL

Completed 2020: Auckland Office Fitout - Engineer to contract & quantity surveying services



Completed 2021: 10 three storey high end residential apartments rebuilt using existing slab M-SOCIAL HOTEL

Completed 2017: 200 room hotel on Auckland's waterfront



Completed 2012: Regional HQ for Order of St John Ambulance service



Asset Valuation: Replacement cost estimates for dams, STPs, reservoirs and infrastructure



ATEED

Completed 2012: 500m2 in two sites **BEAUMONT QUARTER**

Completed 2006:

258 residential units with common recreation facilities



STARLING PARK SPORTS

Completed 2011: 840m2 + bleachers



Completed 2009: 25,000m2 warehouse and office building



SILVERDALE CENTRE

Completed 2012:

36 retail units including supermarket and The Warehouse



THE CROSSINGS

Completed 2013: 60 keys plus conference centre and office/retail

10 AUGUSTUS **TERRACE**

Completed 2013: 12 Apartments

STUDHOLME MILK **POWDER PLANT**

Completed 2008: Milk powder production plant



/ www.bqh.co.nz













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