



Mr Sam H Y Ho
BSc
Principal Engineering Geologist

Key Experience

Sam Ho is an experienced engineering geologist with expert knowledge of the geological conditions of many east Asian countries. He has over 26 years of solid experience acquired through his lengthy involvement in the infrastructure development of Hong Kong and has worked in China, Singapore, Macau and Taiwan. He has expert knowledge of geological investigations and their application to analyses and design of tunnels, soil and rock slope studies, and construction works. He has been project manager on many projects and engineering geologist on numerous public and private sector slope investigations, assessment studies and design works. Sam has also been very active in tunneling works ground investigation supervision and detailed soil and rock logging. His unique background knowledge and continuing practical involvement in logging, mapping and geological studies has resulted in an expert appreciation of local slope formation and related geological profiles. His detailed understanding of geology and slope engineering enables sound engineering judgment to be applied and a clear understanding in the interpretation of analysis results made by geotechnical engineers.

Career Summary

2002 – Present: Principal Engineering Geologist, GCG (Asia)

Responsible for the engineering geology and geological interpretation of the majority of projects undertaken by the firm. Projects undertaken to date include:

- Natural terrain hazard study for residential development at Ma Liu Shui, Shatin.
- Tender design for temporary tunnel support for large diameter drainage tunnels in Hong Kong.
- Specialist geological studies for bored piling work on KCRC Contract KDB400 in West Kowloon.
- Resident geotechnical engineer/geologist for Contractor at Route 8 Lai Chi Kok Viaduct including specialist geotechnical support/ supervision of detailed ground investigation, determination of piled founding levels, instrumentation and monitoring, soil and rock slope engineering, and various geotechnical temporary works design for ICE certification and subsequent construction.
- Geological review and geotechnical advice to tunnelling sub-contractor on the Queensway subway for Pacific Place 3 at Queens Road East including rock mass classification and review of temporary tunnel support.
- Blasting assessment, temporary tunnel support design and geotechnical advice on the construction of a pedestrian tunnel within the CEDD Jordan Valley Site Formation area.
- Temporary tunnel support design and geotechnical advice to tunnel construction for the ongoing Route 8 Shatin Height Tunnels.
- Specialist geological studies and reporting including detailed soil sample logging for investigating ground freezing at tunnel cross passages for the DB201 Sheung Shui to Chau Tau Tunnels construction.
- Resident engineering geologist responsible for all technical design and construction aspects of two rock tunnels including ground instrumentation monitoring and temporary tunnel support design for TDD Contract Road T7 Construction in Ma On Shan, including entire rock slope mapping and data analysis works related to tunnel and rock slope formation work.
- Geotechnical engineer / engineering geologist seconded to contractor of Route 8 Lai Chi Kok Viaduct for specialist geotechnical support and supervision of predrilling, pile founding determination, large diameter bored piles and pre-bored socketed H pile construction, instrumentation monitoring, soil and rock slope engineering, including various temporary works design for ICE certification and subsequent construction.



Geotechnical Consulting Group (Asia) Ltd

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- Geological interpretation and reporting for Perth City Rail, Yuen Long Highway and Deep Bay Link tenders
- Interpretation of geology for expert witness reports

1997– 2002: Associate Director, Hyder Consulting Limited

Responsible for project management and technical development of the geotechnics and marine division of the company. Works carried out to date includes:

- Project Manager – Geotechnical Advisory Service term contract – 1997-99, and HKHA Contract No. 2/1999 – LPM, Tiu Keng Leng Cottage Area for Hong Kong Housing Authority.
- Review application of QRA to HKHA slopes including GEO Report No. 68 ranking Stage 2 studies.
- Project Manager – Site formation design, Redevelopment of Kwun Lung Lau Phase I for H K HS
- HKHA - HA/GE/05/97 - Geotechnical Advisory Services 1997-99 - Project Manager. Works including Stages 2 & 3 studies of slopes & water-bearing utilities leakage assessment at over 18 large housing estates in northwest and central Kowloon.
- Project Manager of various Dangerous Hillside Notice which covered investigation, study and remedial works design submission and technical supervision.
- Engineering geological support to LPM Contract No. CE 89/96 and engineering geologist supervising GI forensic investigation of slope failure, Ten Thousand Buddha Temple for Halcrow.
- Tunnel Design Team Leader – Lamma Power Station Extension, additional cable transmission route. Detailed design of three rock tunnels for cable transmissions at Lamma Island.
- Project Design Engineer – Soft ground tunnel lining tender design for two cross-river highway bored tunnel and a immersed tube tunnel at Shanghai, technical advice to Shenzhen Phase I Metro tunnel and Guanzhou Metro Line II tender design work.

January 1996 – 1997: Principal Engineering Geologist, Hyder Consulting Limited

- Carried out slope mapping and remedial works design on Fort Canning, Singapore
- Project Manager of the study, design and contract management of Slope Improvement Works for Lai Tak Tsuen and Kwun Lung Lau for HKHS.
- Project Manager - HKHA 1995-97 Geotechnical Advice Term Consultancy. Works including annual slope inspection, stages 2 & 3 studies, slope improvement works contract preparation and contract management, emergency inspection and investigation of slope failures.

March 1990 – January 1996: Senior Engineering Geologist, Hyder Consulting Limited

- Project Manager - HKHA Geotechnical Advisory Services 1993-95, 1995-97. Works including inspection, Stages 2 & 3 studies of over 130 nos. of slopes within housing estates in northwest and central districts of Kowloon.

March 1990 – March 1993: Engineering Geologist, Acer Consultants (Far East) Ltd.

- Planning and subsequent supervision of marine site investigation for Lantau Port Peninsula Development and Western Harbour Development Studies for Ports Development Office, CED.
- Being Resident Engineer for the land and marine site investigation and laboratory test contract for the proposed Strategic Sewage Disposal Study for Drainage Services Department.
- Geotechnical study of Yuen Long Area 15 - subsurface marble investigation, Housing Authority.

1985 – 1989: Engineering Geologist, Freeman Fox (Far East) Limited

- Geotechnical Study of natural slopes and boulder stability at Ngau Chi Wan Street, Tai Woh Ping, Shaukeiwan West and Rennies Mill Cottage Area for Hong Kong Housing Authority.
- Resident Engineer to supervise a total of 217 nos. 1.2 to 3.0 diameter hand-dug caisson foundation at a private building development site at TWML 4 Sham Tseng, N.T.

1982 – 1987: Assistant Engineering Geologist, Freeman Fox (Far East) Limited

- Supervision of over 300 nos. large diameter bored piles including ground monitoring, two pigging/offtake stations including buildings, roads and drainage, gas pipeline laying, E & M and foundation works for Gas Production Plants Contracts P1 and M1.
- Supervision of detailed site investigation and s resident engineer large diameter bored piling work at Tsing Yi Cattle Quarantine Depot for Architectural Services Department.
- Geological investigation for Sham Tseng Development, including regional field mapping, and geomorphological analysis and reporting.

1980 – 1982: Senior Field Technician, Fugro Hong Kong Limited

1978 – 1980: Engineering Assistant, Scott Wilson Kirkpatrick & Partners (Hong Kong)

Education/Research

Trained Quality Lead Auditor to ISO9000, 1997

Trained Internal Quality Auditor to ISO9000, 1994

Civil Engineering Courses at Chu Hai College, 1987

BSc (Earth Science) - National Cheng Kung University, Taiwan, 1978



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