



ORWAY MINERAL CONSULTANTS (WA) PTY LTD PROCESS DESIGN REFERENCE LIST

Australian Projects

Company Name	Project Name	Location
Abesque Engineering & Construction Ltd	ANGAS LEAD ZINC	Australia
Allegiance Metals Pty Ltd	AVEBURY COMMINUTION CIRCUIT	Australia
Anglogold Australasia Limited	BODDINGTON FEASIBILITY STUDY UPDATE ASSISTANCE	Australia
Artisan Roofing Products (JH NC, LLC.)	DRY GRINDING MILL FOR SILICA	Australia
Atlas Iron Ltd	RIDLEY MAGNETITE PROJECT	Australia
Aurox Resources Limited	BALLA BALLA	Australia
Ausenco Limited - Brisbane	TRITTON	Australia
Ausenco Limited - Brisbane	ROSIA MONTANA PROJECT	Australia
Ausenco Limited - Perth	KAINANTU	Australia
Bemex Corporation Pty Ltd	LAVERTON GOLD PROJECT	Australia
Bemex Corporation Pty Ltd	MT KASI	Australia
Birla Nifty Pty Ltd	NIFTY UG	Australia
BMA Gold Limited	TWIN HILLS PROJECT	Australia
Como Engineers	ROSEBY	Australia
Como Engineers Pty Ltd	STH AUST IRON ORE CRUSHING	Australia
Como Engineers Pty Ltd	FORRESTANIA	Australia
Como Engineers Pty Ltd	COMO BALL MILL	Australia
Equigold NL	KIRKALOCKA FRESH ROCK EVALUATION	Australia
Equigold NL	BONIKRO - SECOND HAND MILL EVALUATION	Australia
Extension Hill Pty Ltd	MT GIBSON IRON ORE	Australia
First Quantum Minerals	SNC LAVALIN REPORT	Australia
Fluor Australia Pty Ltd	AGUABLANCA	Australia
Goldstream Mining N.L.	CAIRN HILL	Australia
Gribbles Administrative Services Pty Ltd	AMDEL CLIENT - ANGAS	Australia
Herald Resources Ltd	DAIRI COMMINUTION FULL FEASIBILITY	Australia
Hillgrove Resources Ltd	KANMANTOO	Australia
Iluka Resources Limited	WAROONA MINERAL SANDS PLANT	Australia
Iluka Resources Limited	CLOVERDALE	Australia
Iluka Resources Limited	JACINTH-AMBROSIA	Australia
Iluka Resources Limited	GIN GIN MINERAL SANDS PROJECT	Australia
Iluka Resources Limited	WAGERUP MINERAL SANDS	Australia
Iluka Resources Limited	WAROONA MINERAL SANDS PLANT	Australia
Iluka Resources Limited	CLOVERDALE	Australia
Iluka Resources Limited	KULWIN	Australia
Iluka Resources Limited	CATABY	Australia
Independent Metallurgical Operations Pty Ltd	ONSLOW SALT PROJECT	Australia
Intermet Engineering	PALMAREJO PROJECT	Australia
LionOre Australia (Avalon) Pty Ltd	AVALON FINE GRINDING ASSESSMENT	Australia
LionOre Australia (Nickel) Pty Ltd	EMILY ANN CONCENTRATOR UPGRADE	Australia



Company Name	Project Name	Location
Lycopodium - Queensland	WONARAH PHOSPHATE	Australia
Lycopodium Engineering	GOLDEN GROVE CRUSHER	Australia
Lycopodium Engineering	LYCO RTIO HOPE DOWNS 4 PES	Australia
Lycopodium Engineering Pty Ltd	SUNRISE DAM MILL SURVEY	Australia
Lycopodium Engineering Pty Ltd	LNO FINES RE-CLEANING	Australia
Lycopodium Engineering Pty Ltd	BLACK SWAN LINER EVALUATION	Australia
Lycopodium Engineering Pty Ltd	MT KEITH COMMINUTION CIRCUIT DESIGN	Australia
Lycopodium Engineering Pty Ltd	BROCKMAN 4 RTIO	Australia
Lycopodium Engineering Pty Ltd	SUNRISE DAM DESKTOP COSTING STUDY	Australia
Lycopodium Engineering Pty Ltd	WOLFRAM CAMP, QLD ORES LTD	Australia
Lycopodium Engineering Pty Ltd	MOTO - PROCESS ENGINEERING	Australia
Lycopodium Engineering Pty Ltd	MUNGARI GOLD	Australia
Lycopodium Engineering Pty Ltd	BALLA BALLA TITANOMAGNETITE STUDY	Australia
Lycopodium Engineering Pty Ltd	KINGSGATE	Australia
Lycopodium Engineering Pty Ltd	TROPICANA COMMINUTION OPTIONS STUDY	Australia
Lycopodium Engineering Pty Ltd	WOLFRAM	Australia
Lycopodium Engineering Pty Ltd	MOTO - PROCESS ENGINEERING	Australia
Lycopodium Engineering Pty Ltd	TROPICANA COMMINUTION OPTIONS STUDY	Australia
Lycopodium Engineering Pty Ltd	METALLICA HEAP LEACH	Australia
Lycopodium Engineering Pty Ltd	TROPICANA HPGR	Australia
Lycopodium Engineering Pty Ltd	ROY HILL	Australia
Lycopodium Engineering Pty Ltd	WESTONIA	Australia
Lycopodium Engineering Pty Ltd	EMD - CERAMIC BALL MILL	Australia
Lycopodium Engineering Pty Ltd	ROSEBY	Australia
Lycopodium Engineering Pty Ltd	SUNRISE DAM REGEN P&ID'S	Australia
Lycopodium Engineering Pty Ltd	BALLA BALLA	Australia
Lycopodium Engineering Qld	CHIRANO SANDVIK CRUSHING REVIEW	Australia
Lycopodium Pty Ltd	MT WELD	Australia
Lycopodium-KBR JV	LYCOPODIUM RTIOEP STANDARDISATION STUDY	Australia

PROCESS DESIGN REFERENCE LIST



Company Name	Project Name	Location
Lynas Corporation Ltd - Sydney	MT WELD - SINGLE STAGE MILLING REVIEW-	Australia
Magellan Metals Pty Ltd	MAGELLAN COMMINUTION CIRCUIT	Australia
Magellan Metals Pty Ltd	MAGELLAN CANO QUERIES	Australia
Metplant Engineering Services Pty Ltd	BOUNTY GOLD PROJECT	Australia
METS Pty Ltd	TOKA TINDUNG	Australia
Moly Mines Limited	SPINIFEX RIDGE HPGR - BALL OPTION	Australia
Moly Mines Limited	SPINIFEX RIDGE MOLYBDENUM PROJECT	Australia
Moly Mines Limited	SPINIFEX RIDGE 15 MTPA	Australia
MPI Mines Ltd	BLACK SWAN DISSEMINATED PROJECT	Australia
Norilsk Nickel Avalon Pty Ltd	WEDGETAIL ORE TREATMENT	Australia
Orica Mining Chemicals	ORICA GRINDING MEDIA	Australia
Oroya Mining Limited	MT GIBSON GOLD PROJECT	Australia
Outotec Worldwide	PROCESS DESIGN CONSULTANT SINCE 1984	Australia
Perseverance Exploration Pty Ltd	FOSTERVILLE LIMESTONE MILL PROJECT	Australia
Perseverance Exploration Pty Ltd	FOSTERVILLE REGRIND MILL	Australia
Polymetals Group	HELLYER SAG MILL MODELLING (TAILINGS)	Australia
Process Design & Fabrication Pty Ltd- Melbourne	AVALON LIMESTONE BALL MILL	Australia
Regis Resources NL	MOOLART WELL GOLD	Australia
Sunsphere Pty Ltd (Thor)	MOLYHIL	Australia
Transmin Pty Ltd	TRANSMIN LIME SLAKER - 2	Australia
Transmin Pty Ltd	TRANSMIN LIME SLAKER	Australia
Tri Origin Minerals	WOODLAWN UNDERGROUND	Australia
Tritton Resources Ltd	TRITTON	Australia
Universal Resources	EVALUATION OF AG MILLING-LITTLE EVA & LADY CLARE	Australia
Wedgetail Exploration NL	GOLDEN EAGLE SS SAG DESIGN REVIEW	Australia
Weir Services Australia Pty Ltd	WEIR AHAFO TROMMEL	Australia
Weir Services Australia Pty Ltd	KANSANCHI SAG GRATES	Australia
Weir Services Australia Pty Ltd	WEIR GRATE EVALUATION	Australia
Weir Services Australia Pty Ltd	WEIR TROMMEL FOR BLACK SWAN	Australia
Westech International Pty Ltd	BROWNS	Australia
Westech International Pty Ltd	MT FITCH	Australia
Westech International Pty Ltd	SULPHUR SPRINGS	Australia
Western Areas NL	FORRESTANIA	Australia
Westonia Mines Limited	WESTONIA	Australia
WMC Resources Ltd	YAKABINDI HPGR RESULTS INTERPRETATION	Australia
Xstrata Zinc - Mt Isa Mines Pty Ltd	MT ISA	Australia

PROCESS DESIGN REFERENCE LIST



Overseas Projects

Company Name	Project Name	Location
Akara Mining Ltd	CHATREE - COMMINUTION CIRCUIT UPGRADE STUDY	Asia - Thailand
AMCK Mining S.P.RL.	KINSEVERE	Africa
Arctic Platinum Partnership	SUHANKO PROJECT COMMINUTION CIRCUIT DESIGN	Europe
Ashanti Goldfields Company Limited	SIGURI HYBRID PROCESSING	Africa
Atlantic Gold NL	TOUQUOY	America
Atlas Consolidated Min & Dev Co	ATLAS - CEBU	Asia
Aurora Gold Ltd	MT MURO - SAG MILL PROCESS DESIGN	Asia - Indonesia
Aurora Gold Ltd	TOKA TINDUNG - SAG MILL PROCESS DESIGN	Asia - Indonesia
Ausenco Engineers Pty Ltd	CHATREE - SAG AMENABILITY STUDY	Asia - Thailand
Ausenco Limited - Perth	KRUMOVGRAD	Europe
Ausenco/AMGM	NORTH MARA - SAG MILL PROCESS DESIGN	Africa - Tanzania
Avgold	TARGET - REVIEW TEST-WORK AND SIZE MILLS	Africa - South Africa
Barisan Tropical Mining	RAWAS GOLD PROJECT - SAG MILL PROCESS DESIGN	Asia - Indonesia
Barrick Gold Corporation	BUZWAGI BARRICK SABC CIRCUIT DESIGN	Africa
Barrick Gold Corporation	BUZWAGI COMMINUTION CIRCUIT REVIEW	Africa
Barrick Gold Corporation	DONLIN CREEK COMMINUTION OPTION STUDY PHASE 2	America
Base Metal Mineral Resource Corp.	MASBATE GOLD PROJECT - SAG MILL PROCESS DESIGN	Asia - Phillipines
Bateman Diamonds Pty Ltd	CAMATCHIA SITE SERVICES	Africa
Bateman Engineering Ltd	SKORPION - COMMINUTION PROCESS DESIGN	Africa - Namibia
Cheowa Resources Limited	CHEOWA	Africa
Citadel Resources Ltd	JABAL SAYID	Saudi Arabia
CITIC HMC Australia Pty Ltd	SINO IRON AG TRAJECTORY	Asia
CMPS & F	ARMENIAN PROJECT - SAG MILL PROCESS DESIGN	Armenia
Compañia Minera Nevada Ltda	PASCUA LAMA PILOTING	America
Copper Resources Corporation	HINOBA-AN	Asia
Delta Gold NL	EUREKA - SAG MILL PROCESS DESIGN	Africa - Zimbabwe
Dennison/Omega Corp	MUTANGA - KARIBA URANIUM PROJECT	Africa
Diamond Ventures	TOURQUAY	America
DRA	CHIRANO - PRELIMINARY SAG APPLICATION STUDY	Africa - Ghana
El Dore Mining Corporation Ltd - AUSTRALIA	ELDORE - NALESBITAN HILL	Asia
Emperor Gold Mines Limited	TUVATU PROJECT - SAG MILL PROCESS DESIGN	Asia - Fiji
Emperor Gold Mines Limited	VATUKOULA - BALL MILL STUDY	Asia - Fiji
Equigold NL	BONIKRO - COMMINUTION CIRCUIT DESIGN	Africa - West Africa
Gabriel Resources Ltd	REGIA DEVA - SAG AMENABILITY STUDY	Europe - Romania
GBM Minerals Engineering Consultants Ltd	JEROOY	Kyrgyzstan
Gippsland Limited	ABU DABBAB	Africa
Gold Fields Ltd	DRIEFONTEIN - SAG MILL PROCESS DESIGN	Africa - South Africa
Gold Fields Ltd	KLOOF - SAG MILL PROCESS DESIGN	Africa - South Africa
Gold Fields Ltd	TARKWA - COMMINUTION FEASIBILITY STUDY	Africa - Ghana
Golder Ass	PROYECTO DE COBRE GABY - METALLURGICAL STUDY	America - Chile
Green Team Consultants International CC	SIERRA MOJADA ZINC PROJECT	Africa
Intermet Engineering	MARTABE	Asia
JGC Corporation	JGC CORPORATION	Asia

PROCESS DESIGN REFERENCE LIST



Company Name	Project Name	Location
Kalahari Gold Ridge Mining Co.	KALAHARI GOLD MINE - SAG MILL CIRCUIT UPGRADE	Africa - South Africa
Khanong Development Group	SEPON COPPER - SAG MILL PROCESS DESIGN	Asia - Laos
Le Nickel - SLN	TIEBAGHI	Asia
Lone Star Exploration NL	AWAK MAS - SAG AMENABILITY STUDY	Asia - Indonesia
Lycopodium Engineering Pty Ltd	BUZWAGI LYCO SABC MAX CAPACITY EST CIRCUIT	Africa
Lycopodium Engineering Pty Ltd	AHAFO ELUTION CONTROL REVIEW	Africa
Lycopodium Engineering Pty Ltd	BUZWAGI EPCM SERVICES	Africa
Lycopodium Engineering Pty Ltd	CHIRANO MISC WORKS	Africa
Lycopodium Engineering Pty Ltd	JGC PROCESS ENGINEERING	Asia
Lycopodium Engineering Pty Ltd	KINSEVERE	Africa
Lycopodium Engineering Pty Ltd	KOLWEZI	Africa
Lycopodium Engineering Pty Ltd	LEFA DFS COMMINUTION STUDY	Africa
Lycopodium Engineering Pty Ltd	LYCO KIPOI COPPER PROJECT	Africa
Lycopodium Engineering Pty Ltd	MASBATE	Africa
Lycopodium Engineering Pty Ltd	MIRABELA NICKEL LATERITE	America
Lycopodium Engineering Pty Ltd	MOTO - COMMINUTION	Africa
Lycopodium Engineering Pty Ltd	RAPU RAPU SITE COMMISSIONING	Asia
Lycopodium Engineering Pty Ltd	SARI GUNAY	Asia
Lycopodium Engineering Pty Ltd	SIMBERI	Asia
Lycopodium Engineering Pty Ltd	SUHANKO	Europe
Lycopodium Engineering Pty Ltd	WILLIAMSON DIAMONDS	Africa
Lycopodium Pty Ltd	ABU DABBAB - 2 MTPA OPTION	Africa
Lycopodium Pty Ltd	AHAFO - COMMINUTION STUDY	Africa - Ghana
Lycopodium Pty Ltd	AHAFO CIRCUIT OPTIONS	Africa
Lycopodium Pty Ltd	AHAFO FULL FEASIBILITY COMMINUTION STUDY	Africa
Lycopodium Pty Ltd	AKYEM - SAG AMENABILITY STUDY	Africa - Ghana
Lycopodium Pty Ltd	BAKYRCHIK - SAG AMENABILITY STUDY	Europe - Russia
Lycopodium Pty Ltd	BIBIANI - SAG AMENABILITY STUDY	Africa - Ghana
Lycopodium Pty Ltd	CENTENARY - SAG MILL PROCESS DESIGN	Africa - Ghana
Lycopodium Pty Ltd	CHIRANO - COMMINUTION STUDY	Africa - Ghana
Lycopodium Pty Ltd	COMMINUTION STUDY - CHIRANO GOLD PROJECT	Africa
Lycopodium Pty Ltd	EPCM SERVICES - CHIRANO GOLD PROJECT	Africa
Lycopodium Pty Ltd	GEITA - COMMINUTION CIRCUIT UPGRADE STUDY	Africa - Tanzania
Lycopodium Pty Ltd	GEITA PRIMARY ORE	Africa
Lycopodium Pty Ltd	JEAN & GOBELE - SAG AMENABILITY STUDY	Africa - Guinea
Lycopodium Pty Ltd	JINFENG - GENERAL ASSISTANCE	Asia
Lycopodium Pty Ltd	KYPROU GOLD PROJECT - SAG AMENABILITY STUDY	Europe - Greece
Lycopodium Pty Ltd	LERO - COMMINUTION CIRCUIT DESIGN	Africa - South Africa
Lycopodium Pty Ltd	MACRAES - SECONDARY CRUSH/SAG EVALUATION	Asia - New Zealand
Lycopodium Pty Ltd	OBOTAN - SAG AMENABILITY STUDY & COMMISSIONING	Africa - Ghana
Lycopodium Pty Ltd	PENJOM PROJECT - COMMINUTION STUDY	Asia - Malaysia
Lycopodium Pty Ltd	RAPU RAPU REGRIND MILL	Asia
Lycopodium Pty Ltd	SEFWI BELT - SAG AMENABILITY STUDY	Africa - Ghana
Lycopodium Pty Ltd	SIMBERI - COMMINUTION CIRCUIT DESIGN REVIEW	Asia - PNG
Lycopodium Pty Ltd	SIMBERI OXIDE GOLD PROJECT	Asia
Lycopodium Pty Ltd	SUHANKO - COMMINUTION CIRCUIT DESIGN REVIEW	Europe - Finland
Lycopodium Pty Ltd	SUHANKO - KONTTIJARVI STANDALONE CASE	Europe
Lycopodium Pty Ltd	TARKWA	Africa

PROCESS DESIGN REFERENCE LIST



Company Name	Project Name	Location
Macraes Mining Company Limited	MACRAES FLAT - 6 MTPA UPGRADE STUDY	Asia - New Zealand
Mantra Resources Limited	MKUJU RIVER PROJECT	Africa
MDM (Pty) Ltd	MUPANE	Africa
MDM (Pty) Ltd	YOUGA GOLD PROJECT	Africa
MDM Pty Ltd	DRIEFONTEIN - SAG MILL SCOPING STUDY	Africa - South Africa
MDM Pty Ltd	LOULO - SAG MILL PROCESS DESIGN	Africa - Mali
MDM Pty Ltd	MORILA - SAG MILL PROCESS DESIGN	Africa - Mali
MDM Pty Ltd	SAMIRA - SAG MILL PROCESS DESIGN	Africa - Niger
MDM Pty Ltd	SKORPION - WET & DRY GRINDING COMPARISON	Africa - Namibia
MDM Pty Ltd	TARKWA - SAG MILL PROCESS DESIGN	Africa - Ghana
Meekatharra Minerals Indonesia	WAY LINGGO - SAG MILL PROCESS DESIGN	Asia - Indonesia
Metplant Engineering Services Pty Ltd	BAN PHUC	Asia
MIM Pty Ltd	ALUMBRERA - TUNE –UP MODELLING	America - Argentina
MIM-HRL	NENA - SAG AMENABILITY STUDY	Asia - PNG
Minproc Engineers Limited	ABOSSO - SAG AMENABILITY STUDY	Africa - Ghana
Minproc Engineers Limited	IDUAPRIEM - SAG MILL PROCESS DESIGN	Africa - Ghana
Minproc Engineers Limited	RAKAH GOLD - SAG MILL EVALUATION	Asia - Iran
Mirabela Nickel Limited	MIRABELA NICKEL	America
Mount Kasi Limited	MT KASI - HARD ORE UPGRADE STUDY	Asia - Fiji
Mutanda Mining	MUTANDA MINE PROJECT	Africa
Normandy Mining Limited	WAIHI GOLD MINE - GRINDING CIRCUIT EXPANSION	Asia - NZ
Northgate Minerals Corporation	YOUNG DAVIDSON	North America
OmegaCorp Limited	KARIBA URANIUM PROJECT PHASE 1	Africa
OmegaCorp Limited	KARIBA URANIUM PROJECT PHASE 2	Africa
Outotec Worldwide	PROCESS DESIGN CONSULTANT SINCE 1984	South America
Paradigm Project Management	MUMI	Africa
Placer Dome	CONFIDENTIAL PROJECT - SAG MILL PROCESS DESIGN	Africa - RSA
Placer Dome	NORTH MARA - UPGRADE STUDY	Africa - Africa
Project Advisory Services	GOLD RIDGE - SAG MILL PROCESS DESIGN	Asia - Solomon Is
PT Kelian Equatorial Mining	KELIAN - ASSESS COMMINATION CHARACTERISTICS	Asia - Indonesia
PT Newmont Minahasa Raya	MINAHASA - ORE CHARACTERISATION & PROCESS MODELLING	Asia - Indonesia
QDML - China	TANJIANSHAN	Asia
Ranger Minerals Limited	ABOSSO - PEBBLE CRUSHER PROJECT	Africa - Ghana
Resolute Samantha Limited	GOLDEN PRIDE - SAG MILL PROCESS DESIGN	Africa - Tanzania
Rio Narcea	TASIAST	Africa
Rio Tinto	LAS CRUCES - SAG MILL PROCESS DESIGN	Europe - Spain

PROCESS DESIGN REFERENCE LIST



Company Name	Project Name	Location
Semafo Guinee SA	MANA - COMMINUTION CIRCUIT DESIGN	Africa - West Africa
Senet	PASSENDRO GOLD	Africa
Senet	TONGON PROJECT	Africa
Simberi Gold Company Limited	SIMBERI	Asia
Simulus	AYANFURI COMMINUTION CIRCUIT DESIGN	Africa
Sino Gold Jilin BMZ Mining Ltd	WHITE MOUNTAIN	Asia
Sino Gold Ltd	JINFENG PROJECT - COMMINUTION CIRCUIT DESIGN	Asia - China
SNC Lavalin – Canada	LAKE COWAL - DUE DILIGENCE	America - Canada
SNC- Lavalin Australia Pty Ltd	KYLYLAHTI COPPER COBALT PROJECT	Europe
SNC Lavalin Engineers and Constructors Inc	KITTILA	Europe
SNC Lavalin Engineers and Constructors Inc	LAS BRISAS	America
Southgold Exploration (Pty) Ltd	BALFOUR/BURNSTONE	Africa
SRK Consulting	SRK SUN MINING - KLUCHEVSKOYE	Asia
SRK Consulting	SRK SUN MINING - YUBILENOE	Asia
Sun Mining and Exploration	KLUCHEVSKOYE	Europe
TBM Mining Services	HANOBA-AN - PORPHYRY CU SAG AMENABILITY STUDY	Asia - Phillipines
Terramin	TERRAMIN TALA HAMZA ZINC	Africa
Thracean Gold Mining SA	PERAMA HILL - SAG MILL PROCESS DESIGN	Europe - Greece
Tiger Resources	KIPOI CENTRAL	Africa
Tungkum Limited	LOEI	Asia
Zar Kuh Mining Company	SARI GUNAY	Asia

PROCESS DESIGN REFERENCE LIST