

NAGROM

**Capability Statement
2024**



Company Overview

Nagrom, a privately owned Western Australian company, has been providing metallurgical services to the mining industry for over 45 years.

Our Kelmscott facility with over 100 processing units and a staff of over 100 can provide thorough investigation of your process flowsheet. From bench-scale to +100t pilots, from high volume yields of iron ore to high concentration processes of tin, tungsten, tantalum and REO ores, Nagrom will have a solution for your project.

At Nagrom, we take pride in our ability to develop tailored metallurgical and exploration programs that skillfully navigate the intricacies and budget constraints of any project. We prioritize generating valuable insights and maximizing the outcome and information for projects of every size.



Key Personnel Experience

The experience and expertise of Nagrom's staff has led to long-standing customer relationships and a reputation in the industry as one of the leaders in their field.



Rick Murphy

Chief Executive Officer

50+ Years Assaying,
Minerals and Metallurgy



Rain Lewis

BSc (Extractive Metallurgy)
*General Manager/
Metallurgical Supervisor*

15+ Years Metallurgy
and Processing



Adam Holmes

BEng (Chemical and Process
Engineering)
Metallurgist/Process Engineer

15+ Years Technical, Operational
and Design in Mineral Processing



Dr Slobodanka Vukcevic

BSc(Metallurgy) MSc(Eng)
Ljubljana, PhD Belgrade
Senior Metallurgist

30+ Years Hydromet,
Pyromet, Leaching
and Flotation



Lisa Allen

BSc (Environmental Science),
Grad Dip (Extractive Metallurgy)
*Metallurgical Coordinator and
Environmental Scientist*

13+ Years' experience at
Nagrom in Mineral Processing
Testwork and Pilot Plant
Commissioning



Adam Pound

BSc (Chemistry)
Laboratory Manager

18+ Years experience
in Analytical Testing



Anthony Price

BEng (Chemical Engineering, Hons)
Metallurgist/Process Engineer

11+ Years' experience in
Process Optimisation and
Project Management



Russell Lewis

Operations Manager

12+ Year's experience in
Operations and Technical
Supervision in Mineral
Processing Testwork Programs



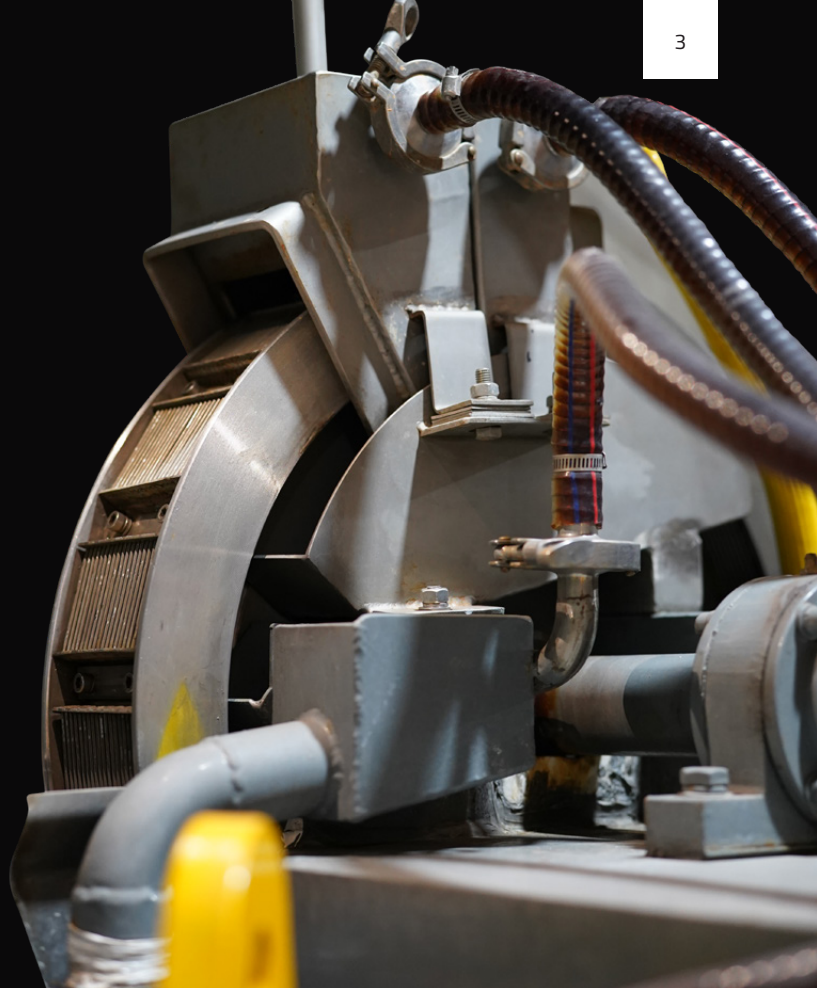
Ryan Wilson

MPE (Chemical Engineering),
BSc (Engineering and Synthetic
Chemistry) *Process Engineer*

8+ Years experience in Metallurgy,
Hydrometallurgy and Processing

Capability Statement

Building our range of equipment since 1978, we own, we operate, we know the equipment and its capabilities. Our team builds partnerships with the world's leading manufacturers so that we can offer diverse processing solutions from the proven to the cutting edge.



Metallurgical Testing and Mineral Beneficiation

- Dense Medium Separators (Pilot & Lab Scale)
- Gravity Separators (Spirals, Tables, Jigs)
- Classifiers (Pilot & Lab Scale)
- Hydrocyclones (Pilot & Lab Scale)
- Flotation (Pilot, Bench Scale, Column)
- Comminution Testing
- Crushers (Jaw, Rolls & Cone)
- HPGR and Mills (Lab and Pilot Scale)
- Magnetic Separators (Dry/Wet Drum, WHGMS, Lab and Pilot Scale)
- Electrostatic Separators
- Solvent Extraction and Ion Exchange
- Leaching (Atmospheric & High Pressure)
- Pyrometallurgical Units
- High Purity Hydrometallurgy
- Sample Dividers (Bench and Large Scale)



Analytical

- Panalytical Axios Wavelength Dispersive XRF
- Perkin Elmer ICP-OES and ICP-MS
- Thermo Scientific ICAP 6000 ICP-OES
- Leco TGA 701's
- Malvern Mastersizer 3000 Lasersizer
- Fire Assay
- Carbon Sulphur Analyser
- Ring Mills
- Ball Mills



Flotation

- Pilot Flotation Cells
 - Joy-Denver Pilot Flotation Cells
 - OK Type U style Pilot Flotation Cells
 - Agitair Style (20L and 40L)
- Benchtop Flotation Cells
 - Essa
 - Denver
 - Agitair
- ERIEZ HydroFloat Lab unit
- ERIEZ Column Flotation Unit
- FLSmidth RFC100



Magnetic Separations - Production and Testwork

- Rare Earth Drum Magnets
- Various Dry Drums Magnets
- Rare Earth Belt Magnets
- Rapid Disc Magnets
 - single and triple discs
- Wet Drum Separations
- Various Wet Drums Magnets
- ERIEZ Davis Tube
- Cross-belt Magnet
- Carpco Lab Magnet
- Gaustec Wet High Intensity Magnetic Separator
- SLon500
- GZRINM145 and GZRINM800
- Longi500
- DLS50



Gravity and Classification

- Air Tables – 1.5 to 2.5m Decks
- Wilfley / Holman Wet Tables
- Gemini Table
- Spirals (Various Profiles)
- Falcon Separator
- Knelson Concentrator
- Kelsey Jig
- Dense Media Cyclone Separation
 - DMS100
 - DMS250
 - Dedicated Diamond Plant
- Flat Bottom Classifier
- Desliming Cyclones
- FLSMidth Reflux Classifiers (RC300, RC100, Batch RC)
- Allmineral Allflux Classifier
- Russell Jig
- Allmineral Stratification Jig
- Batch and Continuous Wet Jig
- Batch and Continuous Air Jig
- Specific Gravity Determinations – Via Gas Pycnometer and Wet Pycnometer
- Hydrostatic Weighing



Hydrometallurgy

- Leaching/Extraction Processes
- Diagnostic – Atmospheric – Pressure Leaching
- Pilot and Customised Process Programs and Equipment
- Solvent Extraction Processes
- Diagnostic and Benchscale
- Ion Exchange Processes
- Precipitation and Crystallisation Processes



Custom Crushing/ Grinding and Preparation

- Almonte Auto Core Cutting
- Scrubber Trommels – 1 metre, 2 metre & 5 metre
- Hydrocyclone Desliming Circuits (1" up to 10")
- Mozley Ultrafine Cyclone (0.5")
- Jaw Crushers
- Rolls Crushers
- WesCone 14" Cone Crusher
- Rod Mill Grinding (wet & dry circuit)
- Continuous Ball/Rod Mill
- Bench Scale Ball & Rod Mills
- Thyssenkrupp High Pressure Grinding Rolls (HPGR)
 - Pilotwall
 - Labwall



Custom Screening

- Single & Twin Deck Vibratory Screens (1-6tph)
- Gyrotory Kason-Type Screens
- Orbital Bed Rotex Screens
- Large Scale Custom Piloting
- Shenck Screens
- Rotap
- 200mm Sieves and Shakers
- 450mm Sieves and Shakers
- Derrick Screen



Custom Drying

- Controlled Drying Rooms
– 1kg to 2 tonne
- Controlled Rotary Drying Kilns (2tph)
- Quarantine ovens for Sterilization (AQIS)



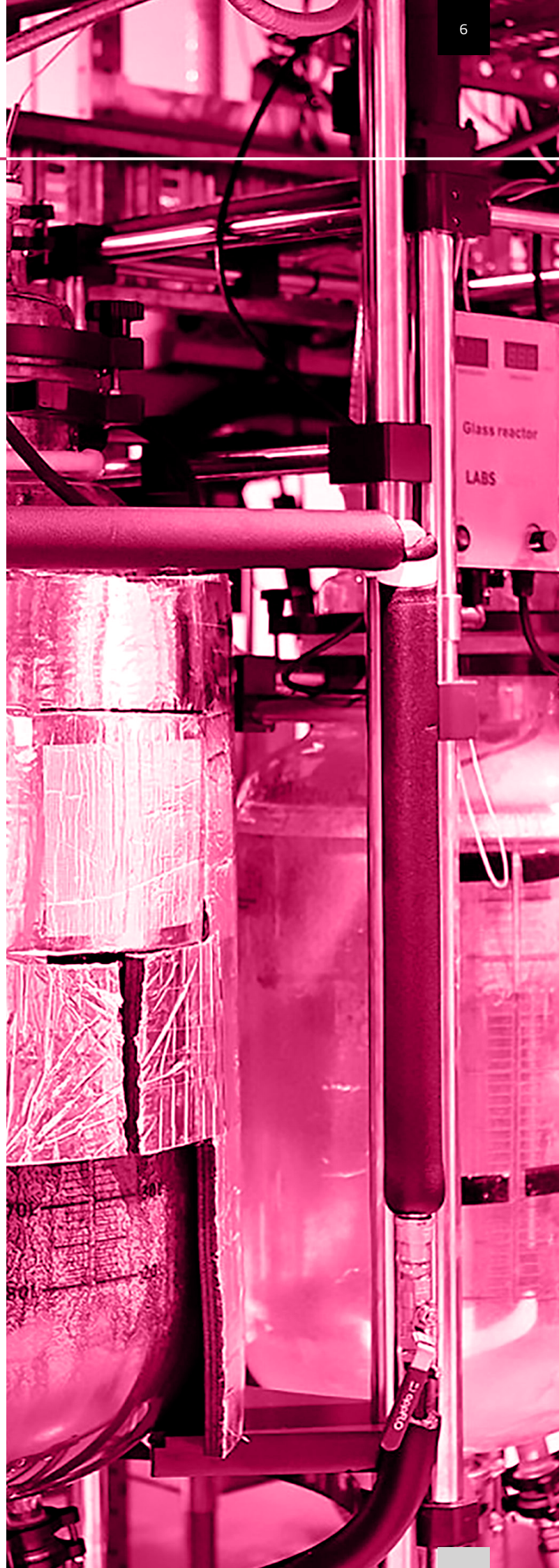
Electrostatic Separation

- Dual Drum High Tension Separation
- Electrostatic Plate Separator
- Carrara and Readings High Tension Roll Separato



Gold Extraction - Testwork

- Cyanide Leach Programs
- Bottle Rolls & Column Leach
Pilot Runs – static & agitated
- Knelson and Falcon Concentrators
- Leachwell™








Metallurgical Testwork - Current and Past Activity

- Mineral Resources Limited
- Fortescue Metals Group Ltd
- Galileo Mining
- Iluka Resources Limited
- Rio Tinto Exploration
- Hastings Technology Metals Ltd
- AVZ Minerals
- Liontown Resources
- Saturn Metals Limited
- Northern Minerals Ltd
- Peak Resources Ltd
- TNG Ltd
- Savannah Resources PLC
- Consolidated Minerals Ltd
- Atlantic Lithium Limited
- Pensana Metals Ltd
- Calidus Resources Limited
- Margosa Graphite Limited
- Covalent Lithium Pty Ltd
- Core Lithium Ltd
- Walkabout Resources Ltd
- King River Copper Ltd
- BHP Billiton Limited
- Kasbah Resources Limited
- Latin Resources
- Prospect Resources Limited
- Metals Tech Ltd
- Deep Yellow Limited
- Mkango Resources Ltd
- Birimian Limited
- Multicom Resources
- Speewah Mining Pty Ltd
- Pilbara Minerals Limited
- Novo Resources
- Artemis Resources Limited
- Bryah Resources Ltd
- Brockman Mining Australia
- Tungsten Mining NL
- Hill End Gold Ltd
- Arafura Resources Ltd
- Galaxy Lithium Australia Ltd
- Neometals Ltd
- Metals Australia Ltd
- Greenpower Energy Limited
- Hexagon Resources Ltd
- New Energy Minerals (Mustang)
- Saracen Metals Pty Ltd
- Golden Rim Resources LTD
- Lithium Australia
- Northern Star Resources Ltd
- Eastern Goldfields Limited
- Global Advanced Metals
- First Graphite Limited
- Flinders Mines Ltd
- European Metals Holdings Ltd
- Spitfire Minerals Limited
- U308 Corp.
- Echo Resources Ltd
- Aurora Minerals Limited
- Tyranna Resources Limited
- Kin Mining NL
- AngloGold Ashanti Australia
- Auroch Minerals NL
- Oceanagold Ltd
- Namibia Rare Earths Inc
- Delta Lithium Limited
- Liatam Mining
- Global Lithium Resources
- Talison Mining Pty Ltd
- Albemarle
- Lynas Rare Earths Ltd



NAGROM

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