



Council for Geoscience

ANALYTICAL SERVICES

SERVICE REQUEST FORM

DOCUMENT NUMBER

CGS-TEM-2017-0160

REVISION NUMBER

07

EFFECTIVE DATE

29/11/2022

Customer Information (The client is the recipient of the invoice and data after analysis)		Service Group (Please Tick)		Samples Retention (Please Tick)	
Name of Client/Contact		Sample Preparation	Petrography	Discard after 3 months	
Organisation		Coal	SEM	Courier to customer	
Tel/Cell		Environmental	XRD	Customer to collect	
Email		XRF	Petrophysics	Other (specify)	
Project No & Phase (CGS Clients)		Chemistry	Particle Size Analysis		
Order No/Payment Reference (Non CGS)		Mineralogy (digital photography)	Ceramics		
CGS Quotation number		Date			
Physical Address					

Please tick the required tests below
(NB! If you already have and typed in the quote number above no need to tick)

Solid Sample Preparation (Please Tick)		Chemistry (Please Tick)	
Dry	Mill <75 microns	Liquid Samples/Water	
Crush <4mm	Sieve	Anions (water)	Solid Samples
Split			Anions (soil)
Coal (Please Tick)			Mercury
Proximate	Calorific Value		Carbon and Sulphur
Ultimate	HPVA	Petrophysics (Please Tick)	
Reflectance (V - value)	Macerals	Sample collection (25mm core)	Tabulated Results
	Detailed Macerals	Sample preparation (25mm core)	Interpretive Report
Free Swelling Index	Reflectance Vitrinite	Sample preparation (all other sizes)	Research/Consultation
Microolithotype	Total Sulphur	Magnetic Properties	
Environmental (Please Tick)		Mass Susceptibility	Physical Properties
pH	ABA	Volume Susceptibility	Bulk density (wet)
EC	Batch Leach	Anisotropy of magnetic susceptibility (AMS)	Bulk density (dry) <small>porous sample</small>
Paste pH	Column Leach	Intensity of magnetization (NRM) incl. direction for oriented sample	TD Resistivity & IP (mV/V)
Paste EC	Alkalinity/Acidity	Remanence incl. Q-ratio (requires location)	FD Resistivity & phase angle & conductivity (mS/m)
TCLP		Remanence only	Dielectric parameters
XRF (Please Tick)		Paleomagnetic Study	Seismic velocity (p-wave)
Majors (Geological samples)	Qualitative scans	Thermomagnetics (CS3) (ambient air)	Seismic velocity (s-wave)
Traces	Other (Specify)	Thermomagnetics (CS3) (Argon)	Bulk density and porosity
Mineralogy (Please Tick)		Field dependence of magnetic susceptibility	Susceptibility (KT20)
XRD run traces only	Ceramics Full physical test	Particle Size Analysis (Please Tick)	
XRD semi-quantitative	Ceramics extrusion, dry & fired strength, dry & fired shrinkage, water absorption, dry sensitivity (circle applicable if not all)	Wet dispersion (Water)	
XRD quantitative by Rietveld	Ceramics firing	Petrography (Please Tick)	
XRD amorphous matter	Ceramics button preparation and firing	Polished Thin Sections	Polished Stubs
XRD clay fraction	Ceramics Dilatometry	Covered Thin Sections	Large Sections
XRD asbestos	Ceramics MOR - compression, flexural, tensile strength (circle applicable if not all)	Uncovered thin sections	Minerals Separation <small>Non Magnetic</small>
XRD scan data/diffractogram (circle applicable if not all)	Ceramics QC (XRD & XRF)	Polished Specimen	Concise Petrography description
Digital Photography	Ceramics primary sample preparation	Minerals Separation <small>Magnetic</small>	Detailed Petrography description



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NOTE:

- Please consult the Laboratory if you not familiar with the test items above.
- Please email back the form to lab_reception@geoscience.org.za once completed.
- Kindly inform the laboratory of any toxics that might possibly be in the samples.

Please specify if your samples might have the following (Please Tick)

Asbestos	<input type="checkbox"/>	Radioactive	<input type="checkbox"/>	Bio-Hazard	<input type="checkbox"/>	Other (specify)	<input type="checkbox"/>
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Additional Requests/Comments

No	Sample Identity (Please Shorten/Acronym or Abbreviate)	General Description (Rock type/Sample Locality)
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3		
4		
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TOTAL NUMBER OF SAMPLES	
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SUBMITTED BY:		DATE:	
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RECEIVED BY:		DATE:	
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JOB NUMBER:		DATE:	
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