



UC004949



SGS IMME Mongolia LLC

MRN: 5616077

Energy Resource LLC

TTD: 2887746

Central Tower, 15th Floor, Suite 7, Sukhbaatar Square 2

Sukhbaatar District,-8

Mongolia

Lab Ref: UC004949

Client Ref: **ER-24004-1**

Project: Coal

Sample type

Status: Preliminary

Received: 5/21/24

Started: 5/22/24

Reported: 5/30/24

Samples: 1

First Sample: Washed_UHG_MASHCC_240517_1

Last Sample: Washed_UHG_MASHCC_240517_1

Pages: 11

Result apply to sample as submitted.

Notes

Authorised by

On behalf of:

Ankhbayar Luvsansharav
Operations Director

Email: luv.ankhbayar@sgs.com

Website: www.sgs.com

www.coal.sgs.com

SGS-IMME **Mongolia LLC** is accredited by **MASM** and conforms to the requirements of ISO/IEC 17025 the laboratory operations are accredited to ISO9001:2008. The sample was not drawn by the laboratory and this report is not used for L/C negotiation. The test report would be invalid without signatures of the persons for approval. The test report would be invalid if altered and test would be invalid if reproduced, except in full, without written approval of the Company. Different opinions about test report should be reported to us within 15 days from the date of receiving the test report. This document is issued by the Company under its General Conditions of Services accessible at <http://www.sgs.com/en/terms-and-conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issued defines therein. Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a translation from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS-IMME Mongolia LLC
Uildveriin toirog 101, 20th khoroo, Bayangol district,
Ulaanbaatar, Mongolia 17060
t +976 7014 4415 f +976 7017 8599

Member of the SGS Group

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 2 of 11

ANALYTICAL REPORT

Scheme	ASTM3302	ASTM3302	ISO11722:2013	ISO 1171:2010	ISO 1171:2010	ISO 1171:2010
Units	%	%	%	%	%	%
Detection Limit	0.1	0.1	0.1	0.5	0.5	0.5
Upper Limit	50	50	50	99	99	99
	Moisture, Total	Air Dry Loss	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
Washed_UHG_MASHCC_240517_	6.90	6.06	0.89	19.24	20.49	20.67

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 3 of 11

ANALYTICAL REPORT

Scheme	ISO562:2010	ISO562:2010	ISO562:2010	ISO562:2010	ISO 1213-2:2016	ISO 1213-2:2016
Units	AR %	AD %	DB %	DAF %	%	%
Detection Limit	0.1	0.1	0.1	0.1	0.01	0.01
Upper Limit	75	75	75	75	100	100
	VM_ARB	VM_ADB	VM_DB	VM_DAF	FC_ARB	FC_ADB
Washed_UHG_MASHCC_240517_	16.82	17.90	18.06	22.77	57.04	60.72

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 4 of 11

ANALYTICAL REPORT

Scheme	ISO 1213-2:2016	ISO 1213-2:2016	ISO19579:2006	ISO19579:2006	ISO19579:2006	ISO19579:2006
Units	%	%	AR %	AD %	DB %	DAF %
Detection Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	5.21	5.21	5.21	20
	FC_DB	FC_DAF	Sul_ARB	Sul_ADB	Sul_DB	Sul_DAF
Washed_UHG_MASHCC_240517_	61.27	77.23	0.68	0.73	0.73	0.92

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 5 of 11

ANALYTICAL REPORT

Scheme	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	ISO 501:2012	ISO 15585:2019
Units	KCAL/KG	KCAL/KG	KCAL/KG	KCAL/KG	/	/
Detection Limit	0	0	0	0	0	0
Upper Limit	10,000	10,000	10,000	10,000	9	110
	GCV_ARB	GCV_ADB	GCV_DB	GCV_DAF	CSN	G
Washed_UHG_MASHCC_240517_	6303	6710	6770	8534	4	46

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 6 of 11

ANALYTICAL REPORT

Scheme	GB/T 4633-2014	GB/T 3558-2014	XRF76V	CVA20A	ICP40B	GB/T 479:2016
Units	PPM	%	%	PPM	PPM	mm
Detection Limit	20	0.003	0.01	0.004	3	0
Upper Limit	2,000	0.4	70	5.2	10,000	30
	F	Cl	P	Hg	As	Y
Washed_UHG_MASHCC_240517_	1422	--	0.09	--	<3	9.0

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 7 of 11

ANALYTICAL REPORT

	GB/T 479:2016	ISO 1928:2020	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21
Scheme						
Units	mm	KCAL/KG	AD %	AR %	DB %	AD %
Detection Limit	0	0.1	0.001	0.001	0.001	0.001
Upper Limit	45	9,000	100	100	100	100
	X	NCV_AR	C_AD	C_AR	C_DB	H_AD
Washed_UHG_MASHCC_240517_	32.5	6106	69.47	65.26	70.09	3.35

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 8 of 11

ANALYTICAL REPORT

Scheme	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21
Units	AR %	DB %	AD %	AR %	DB %	AD %
Detection Limit	0.001	0.001	0.001	0.001	0.001	0.001
Upper Limit	100	100	100	100	100	50
	H_AR	H_DB	O_AD	O_AR	O_DB	N_AD
Washed_UHG_MASHCC_240517_	3.15	3.48	3.34	3.14	3.27	1.74

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 9 of 11

ANALYTICAL REPORT

Scheme	ASTM D5373-21	ASTM D5373-21	AS 1038.21.1.2-2002
Units	AR %	DB %	G/CM3
Detection Limit	0.001	0.001	0.01
Upper Limit	50	50	3
	N_AR	N_DB	RD
Washed_UHG_MASHCC_240517_	1.63	1.76	1.45

Draft Report

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 10 of 11

ANALYTICAL REPORT

Description

ASTM2013	:	Standard Practice for Preparing Coal Samples for Analysis
ISO11722	:	Determination of moisture in the general analysis test sample by drying nitrogen
ASTM3302	:	Moisture, Air-Dry Loss
ISO 1171	:	Solid mineral fuels-Determination of ash
GB/T 3558	:	Determination of Chlorine in coal
ISO501	:	Hard coal-Determination of the crucible swelling number
GB/T 4633	:	Determination of Fluorine in coal
ISO 1213-2	:	Fixed Carbon (by calculation)
ISO 15585	:	Hard coal-Determination of Caking index
CVA20A	:	Mercury by AFS method
ISO 1928	:	Coal and coke — Determination of gross calorific value
AS 1038.21	:	Relative Density - Analysis sample/volumetric method
ISO19579	:	Solid mineral fuels-Determination of sulfur by IR spectrometry
ASTM3302	:	Standard Test Method for Total Moisture in Coal
ASTM D5373	:	Standard Test Methods for Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal
ISO562	:	Hard coal and coke-Determination of volatile matter
GB/T 479	:	Determination of plastometric indices of bituminous coal
ICP40B	:	ICP-OES after DIG40B
ISO1928	:	Coal and coke — Determination of gross calorific value



UC004949

SGS IMME Mongolia LLC

Uildveriin toirop 101 toot
20th Khoroo
Bayangol Duureg
Ulaanbaatar 36, Mongolia

Lab Ref UC004949
Client Ref **ER-24004-1**
Project COAL
Reported 30/05/24
Status Preliminary
Page Page 11 of 11

XRF76V : Meta/Tetraborate Fusion, XRF (0.7000gr)

***** THE END *****

Draft Report