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# НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

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№ ETT\_SP\_SSC

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ISO 45001:2018

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ISO 9001:2015

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ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

НИЙТ ЧИЙГ (ar)

**3.2%**

(-2.0; +2.0)

ҮНСЛЭГ (db)

**18.5%**

(-5.0; +5.0)

ДЭГДЭМХИЙ (daf)

**33.0%**

(-2.0; +2.0)

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НИЙТ ХҮХЭР (db)

**1.1%**

(-0.5; +0.5)

БАРЬЦАЛДАХ  
ЧАНАР

**75.0**

(-10; +10)

ОВООЛГЫН  
ХЭМЖЭЭ

**288.0**

МЯН.ТН

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

ALS GROUP LLC  
Mongol National Building, 2nd floor  
Chinggis Avenue, Khan Uul District  
Ulaanbaatar, Mongolia  
We value you customer



CERTIFICATE OF ANALYSIS

21L09; 12; 16; 18; 20; 39; 44; 50-TT, 22A37; 62, D18, F37, 65, I16, 60, J14, 30, 34, 44, 51, K17-TT, Z3B18-TT

CLIENT: Erdenes Tavantolgoi JSC  
ADDRESS: Finance Center, Jigjida-ii 1st khoroо, Chingelteе District, Ulaanbaatar, Mongolia  
ATTN: Biquunmantul  
PROJECT NO. xxx  
LAB. JOB NO. 21L09; 12; 16; 18; 20; 39; 44; 50-TT, 22A37; 62, D18, F37, 65, I16, 60, J14, 30, 34, 44, 51, K17-TT, Z3B18-TT  
NO. SAMPLES: 36  
Notes/Comments: xxx

SAMPLES RECEIVED: 01/20/2021-06/03/2023  
INSTRUCTIONS RECEIVED: 01/20/2021-06/03/2023  
DATE OF REPORT: 01/20/2021-07/02/2023  
STATUS OF REPORT: FINAL  
ANALYSIS COMPLETE: 01/20/2021-07/02/2023  
PREPARATION CODE: CTRUBH-01, 02, MLI-01  
ANALYSIS CODE: 1.1\_COKING COAL  
TM, ASH, MOIS, VOL, TSH, CSH, CVM

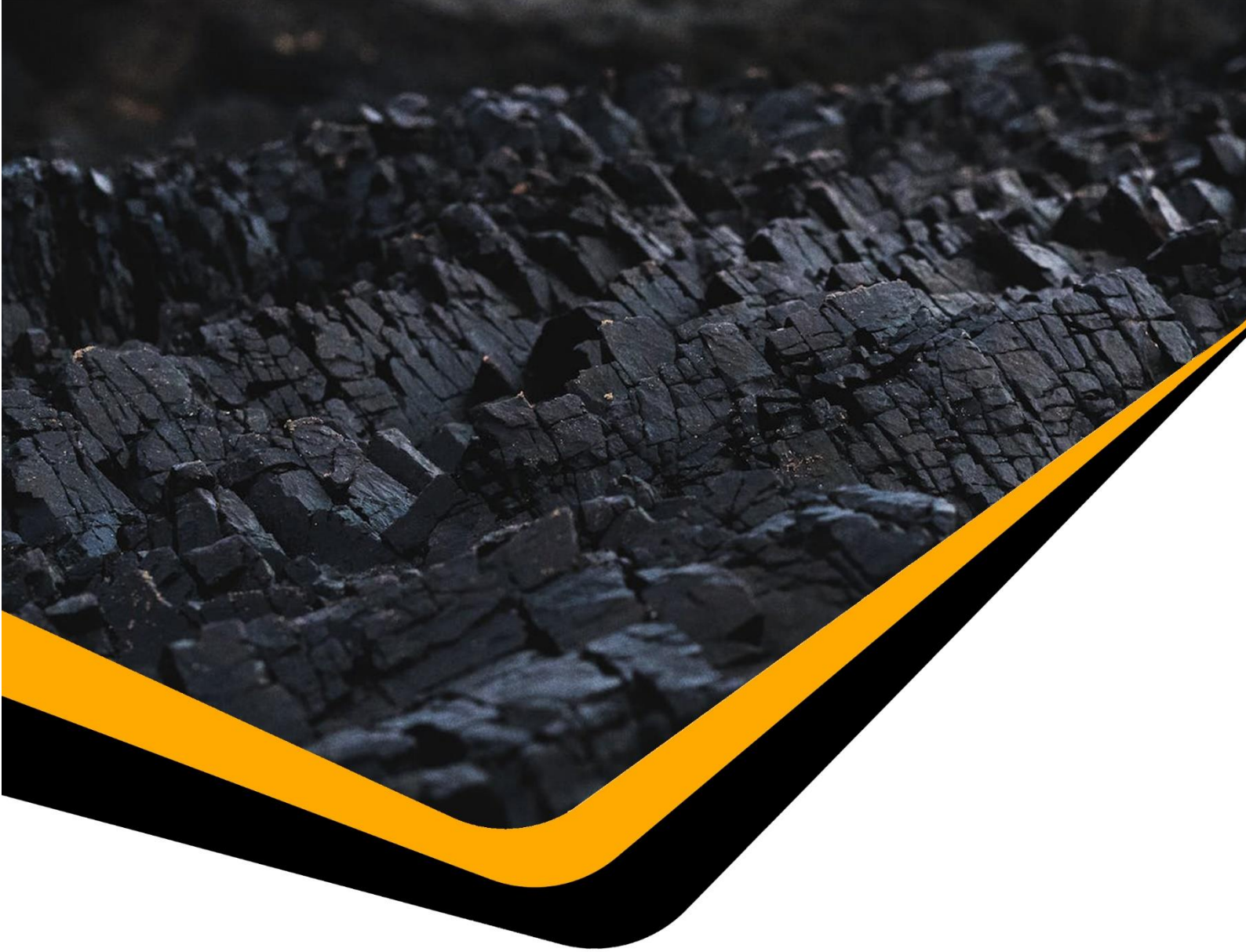
APPROVED BY: Laboratory Manager



CHECKED BY: Credentia

These test results are representative only of the sample received in this laboratory.

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS										AIR DRIED BASIS										DRY BASIS										Cokeable Swelling Number (CSN)	Coal Caking Index (CCI)	
		Total Moisture (TM)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	1	2													
1	WSS-21-18co-1A-484	3.91	13.85	27.11	55.13	0.95	0.81	14.30	27.58	56.91	0.98	14.41	28.21	57.37	0.99	32.97	67.03	1.56	5.5	7.7	-	-												
2	WSS-21-18co-1B-485	3.48	16.67	27.63	52.22	1.03	0.82	17.13	28.30	53.66	1.08	17.27	28.63	54.10	1.07	34.60	65.40	1.29	6.5	80	-	-												
3	WSS-21-18co-2A-502	3.93	18.45	26.14	51.48	1.37	0.73	18.06	27.01	53.19	1.41	19.20	27.21	53.59	1.43	33.68	66.32	1.78	6.5	78	-	-												
4	WSS-21-18co-2B-503	4.58	17.16	25.96	52.60	1.30	0.71	17.80	26.93	54.26	1.35	17.93	27.12	54.90	1.36	33.04	66.96	1.68	6.5	80	-	-												
5	WSS-21-18co-2C-503	3.94	18.17	25.98	51.91	1.22	0.68	18.78	26.87	53.67	1.26	18.91	27.05	54.04	1.26	33.36	66.64	1.98	6.0	76	-	-												
6	WSS-21-18co-2D-504	4.07	18.16	25.78	52.00	1.20	0.76	18.79	26.67	53.79	1.31	18.93	26.87	54.20	1.32	33.14	66.86	1.63	6.0	77	-	-												
7	WSS-21-18co-3A-508	3.49	16.17	26.43	53.91	1.12	0.75	16.63	27.18	55.44	1.16	16.75	27.30	55.86	1.17	32.90	67.10	1.40	6.6	83	-	-												
8	WSS-21-18co-3B-509	3.34	16.47	25.40	54.79	1.08	0.87	16.89	26.05	56.19	1.11	17.04	26.28	56.69	1.12	31.68	68.32	1.36	6.5	82	-	-												
9	WSS-21-18co-3C-510	2.83	20.63	23.79	52.75	1.27	0.89	21.08	24.37	53.92	1.30	21.23	24.48	54.29	1.31	31.98	68.92	1.66	5.0	63	-	-												
10	WSS-21-18co-3D-511	2.95	22.23	23.71	51.12	1.04	0.85	22.75	24.27	52.33	1.06	22.90	24.43	52.87	1.07	31.68	68.32	1.36	4.5	63	-	-												
11	WSS-21-18co-4A-512	3.50	20.37	23.61	52.51	0.95	0.76	20.95	24.28	54.01	0.99	21.11	24.47	54.42	1.01	31.02	68.98	1.22	5.5	70	-	-												
12	WSS-21-18co-4B-513	3.52	15.41	26.29	54.78	1.10	0.95	15.86	27.05	56.35	1.13	15.98	27.25	56.77	1.14	32.43	67.57	1.36	6.5	85	-	-												
13	WSS-21-18co-4C-514	3.59	19.17	24.43	52.82	1.21	0.74	19.74	25.15	54.38	1.24	19.88	25.33	54.76	1.25	31.62	68.38	1.56	5.5	68	-	-												
14	WSS-21-18co-4D-515	3.60	19.19	24.20	53.01	1.23	0.78	19.75	24.91	54.56	1.26	19.90	25.11	54.99	1.27	31.35	68.65	1.50	5.5	75	-	-												
15	WSS-21-18co-5A-518	4.75	11.78	26.35	57.15	0.77	0.73	12.25	27.46	59.96	0.81	12.34	27.66	60.00	0.81	31.95	68.45	0.95	7.0	89	-	-												
16	WSS-21-18co-5B-25	2.38	18.44	23.07	56.14	1.26	0.82	18.79	23.50	57.79	1.28	18.89	23.92	57.95	1.29	29.12	70.88	1.59	3.5	58	-	-												
17	WSS-22-18co-6D-37	3.29	12.80	27.00	57.11	0.80	0.62	12.95	27.75	58.89	0.62	13.03	27.92	59.05	0.62	32.10	67.90	0.95	7.5	89	-	-												
18	WSS-22-18co-9D-38	3.28	10.00	27.24	59.48	0.85	0.66	10.27	27.98	61.09	0.66	10.34	28.16	61.90	0.67	31.41	68.59	0.75	7.5	91	-	-												
19	WSS-22-18co-1A-73	3.08	16.88	26.58	53.45	0.68	0.76	17.28	27.21	54.74	0.70	17.42	27.42	55.16	0.70	33.20	66.80	0.85	7.5	92	-	-												
20	WSS-22-18co-6B-105	1.31	13.71	26.84	56.14	0.60	0.53	13.82	27.06	55.58	0.61	13.95	27.22	56.09	0.61	33.93	66.07	0.71	7.5	88	-	-												
21	WSS-22-18co-6C-109	3.42	19.26	24.77	52.35	0.72	0.60	19.84	25.55	53.99	0.75	19.98	25.70	54.33	0.75	32.12	67.88	0.94	6.5	79	-	-												
22	WSS-22-18co-6D-110	6.42	16.59	25.52	51.47	0.83	0.78	17.59	27.04	54.58	0.86	17.72	27.27	55.09	0.86	33.15	66.85	1.07	6.0	74	-	-												
23	WSS-22-18co-TEL-1A-149	1.91	19.90	24.36	53.83	0.71	0.64	20.16	24.67	54.53	0.72	20.29	24.83	54.88	0.73	31.15	68.85	0.91	5.0	69	-	-												
24	WSS-22-18co-TEL-1B-246	2.70	16.76	26.08	54.45	0.99	0.64	17.12	25.64	55.01	0.91	17.23	26.81	55.97	0.92	32.39	67.61	1.23	6.0	69	-	-												
25	WSS-22-18co-TEL-1C-247	1.20	10.93	24.68	54.79	0.85	0.69	20.03	24.29	55.07	0.86	20.17	24.37	55.46	0.86	30.53	67.47	1.03	5.0	68	-	-												
26	WSS-22-18co-TEL-2A-283	3.59	17.92	28.77	52.62	0.64	0.59	17.95	29.67	52.19	0.66	17.64	29.84	52.50	0.66	34.24	63.76	0.60	6.5	78	-	-												
27	WSS-22-18co-TEL-2B-284	3.62	17.15	28.45	50.58	0.66	0.60	17.69	29.55	52.17	0.68	17.79	29.73	52.48	0.68	36.14	63.84	0.84	6.5	80	-	-												
28	WSS-22-18co-TEL-2C-301	3.24	15.24	28.06	53.36	0.85	0.51	15.69	28.88	54.93	0.88	15.77	29.03	55.21	0.88	34.46	63.54	1.04	6.5	83	-	-												
29	WSS-22-18co-TEL-3A-307	2.43	11.34	27.76	58.47	1.04	0.61	11.55	28.28	59.57	1.06	11.62	28.45	59.93	1.07	32.19	67.81	1.21	7.0	88	-	-												



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



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75055555  
1800-1072



Финанс төв, 1-р хороо,  
Чингэлтэй дүүрэг,  
Улаанбаатар хот

