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# COAL QUALITY SPECIFICATION

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N° ETT\_Stockpile\_14

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ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



### COAL STOCKPILES QUALITY (weighted average)

<p><b>TM (ar)</b></p> <p><b>2.5%</b></p> <p>(-0.7; +1.5)</p>	<p><b>ASH (db)</b></p> <p><b>20.5%</b></p> <p>(-5.0; +5.0)</p>	<p><b>VM (daf)</b></p> <p><b>32.1%</b></p> <p>(-2.0; +2.0)</p>
<p><b>TOTAL SULPHUR (db)</b></p> <p><b>0.95%</b></p> <p>(-0.3; +0.5)</p>	<p><b>G INDEX</b></p> <p><b>75</b></p> <p>(-10.0; +5.0)</p>	<p><b>QUANTITY</b></p> <p><b>160.0</b></p> <p>THOUSAND TONS</p>

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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CERTIFICATE OF ANALYSIS  
 23E118-TT, 23F64, 81-TT, 23H139, 25B-TT, 23I41-TT

**CLIENT:** Erdenes Tavan Tolgoi JSC  
**ADDRESS:** Finance Center, Jigjidjav-8  
 1st khoroo, Chingelhel District  
 Ulaanbaatar, Mongolia  
**ATTN:** Bilgumantai.S  
**PROJECT NO.:** xxx  
**LAB. JOB NO.:** 23E118-TT, 23F64, 81-TT, 23H139, 25B-TT, 23I41-TT  
**NO. SAMPLES:** 22  
**Notes/Comments:** xxx

**SAMPLES RECEIVED:** 17/Jun/23  
**INSTRUCTIONS RECEIVED:** 17/Jun/23  
**DATE OF REPORT:** 18/Jun/23  
**STATUS OF REPORT:** FINAL  
**ANALYSIS COMPLETE:** 18/Jun/23  
**PREPARATION CODE:** CRUSH 01, 02; MILL 01  
**ANALYSIS CODE:** 1. COOKING COAL, CSN  
 TM, ASH, MCIS, VOL,  
 TSUL, CSN, CKIN

**APPROVED BY:** Laboratory Manager  
 Quality Manager  
**CHECKED BY:** Chief Chemist

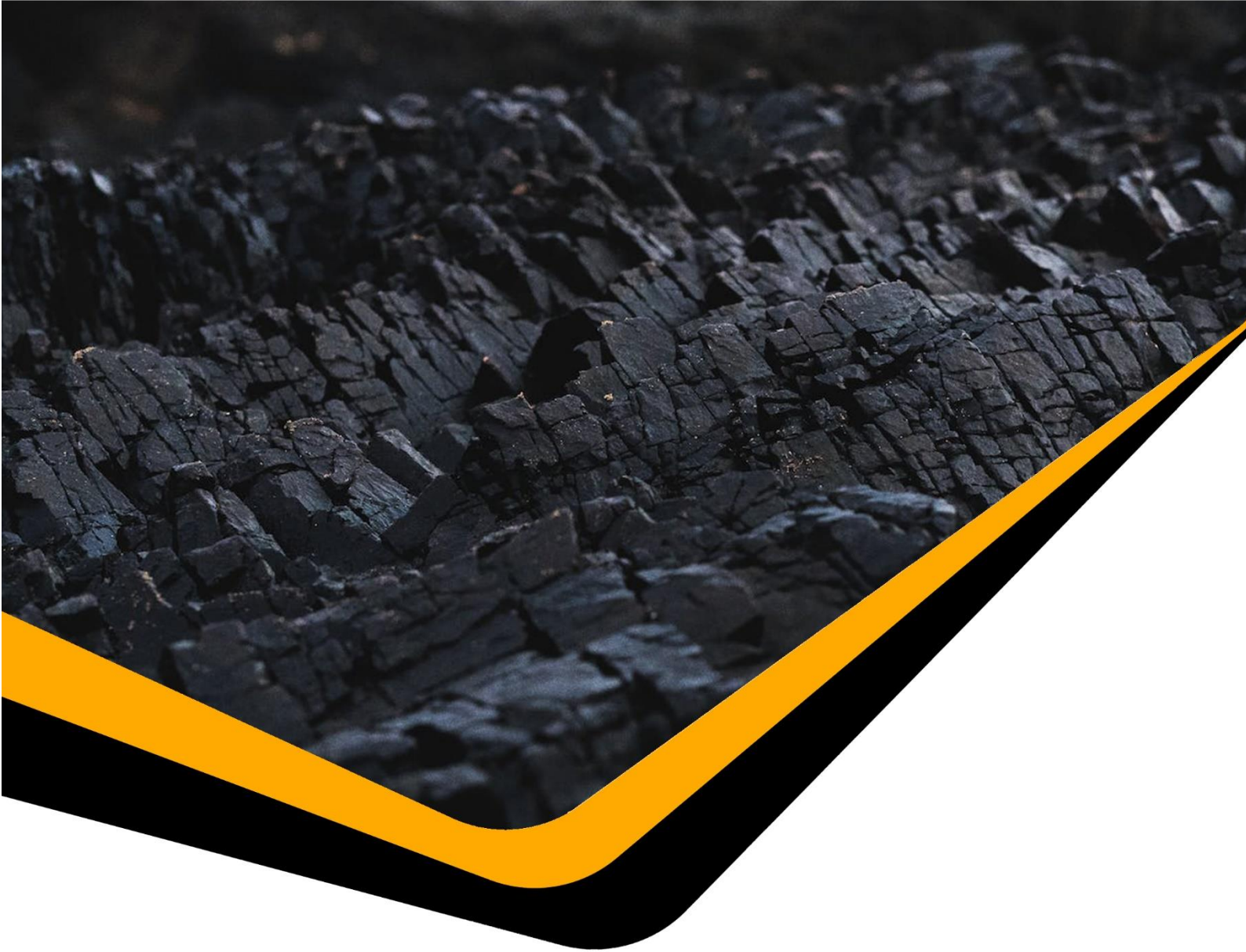
These test results are representative only of the sample analyzed in the laboratory.

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS				AIR DRIED BASIS				DRY BASIS				Cruicible Swelling Number (CSN)	Coal Caking Index (CKIN)					
		Total Moisture (TM)	Ash (ASH)	Volatille Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatille Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatille Matter (VOL)			Fixed Carbon (FC)	Total Sulphur (TSUL)	Volatille Matter (VOL)	Fixed Carbon (FC)	
		%																		
1	ETT_SP_10014-1A	2.47	19.16	26.27	52.11	0.76	0.92	19.46	26.68	52.94	0.77	19.64	26.93	53.43	0.78	33.52	66.48	0.97	81	-
2	ETT_SP_10014-1B	2.73	20.97	25.24	51.06	0.82	1.03	21.24	25.68	51.95	0.83	21.56	25.95	52.89	0.84	33.08	65.92	1.07	79	-
3	ETT_SP_10014-1C	2.09	15.47	27.45	54.98	0.61	0.74	15.69	27.63	55.74	0.61	15.80	28.04	56.16	0.62	33.30	65.70	0.74	85	-
4	ETT_SP_10014-1D	2.18	16.22	26.29	55.30	0.60	0.72	16.46	26.69	56.13	0.61	16.58	26.88	56.54	0.62	32.22	67.78	0.74	81	-
5	ETT_SP_10014-2A	0.64	21.02	26.02	52.32	1.40	0.52	21.04	26.05	52.39	1.40	21.15	26.19	52.66	1.41	33.22	66.78	1.78	6.5	78
6	ETT_SP_10014-2B	0.74	18.50	26.69	54.27	1.25	0.46	18.56	26.56	54.42	1.25	18.64	26.69	54.67	1.26	32.80	67.20	1.54	6.5	79
7	ETT_SP_10014-2C	1.02	17.61	26.26	55.12	1.46	0.77	17.65	26.32	55.26	1.46	17.79	26.52	55.69	1.48	32.26	67.74	1.79	6.5	77
8	ETT_SP_10014-2D	1.03	19.21	25.72	54.04	1.34	0.75	19.26	25.79	54.19	1.34	19.41	25.99	54.41	1.35	32.24	67.76	1.68	6.0	73
9	ETT_SP_10014-2E	1.05	17.53	26.17	55.25	1.18	0.80	17.58	26.23	55.39	1.18	17.72	26.44	55.63	1.19	32.14	67.86	1.44	6.5	75
10	ETT_SP_10014-3A	2.34	24.66	23.44	49.56	0.81	1.00	24.99	23.76	50.24	0.82	25.24	24.00	50.95	0.83	32.11	67.89	1.11	3.0	46
11	ETT_SP_10014-3B	1.15	22.75	24.81	51.29	0.73	0.56	22.88	24.96	51.60	0.74	23.01	25.10	51.89	0.74	32.60	67.40	0.96	6.0	74
12	ETT_SP_10014-3C	2.09	20.94	25.72	51.65	0.69	0.59	21.17	26.01	52.23	0.70	21.30	26.16	52.54	0.70	33.24	66.76	0.90	6.5	81
13	ETT_SP_10014-3D	1.24	19.31	26.98	52.48	0.88	0.72	19.41	27.12	52.75	0.89	19.55	27.31	53.14	0.89	33.95	66.05	1.11	7.0	85
14	ETT_SP_10014-4A	1.33	22.33	25.24	51.09	0.88	0.66	22.48	25.42	51.44	0.88	22.63	25.59	51.78	0.89	33.07	66.93	1.15	7.0	79
15	ETT_SP_10014-4B	1.50	21.13	24.80	52.57	0.67	0.50	21.34	25.05	53.10	0.68	21.45	25.18	53.37	0.68	32.06	67.94	0.87	6.5	75
16	ETT_SP_10014-4C	1.90	20.39	25.71	52.01	0.90	0.51	20.68	26.07	52.74	0.91	20.79	26.20	53.01	0.92	33.08	66.92	1.16	7.0	84
17	ETT_SP_10014-4D	1.82	19.41	26.38	52.39	0.91	0.60	19.66	26.71	53.04	0.92	19.77	24.87	53.36	0.92	33.49	66.51	1.15	7.0	83
18	ETT_SP_10014-5A	1.18	17.96	26.62	55.24	0.58	0.62	18.06	25.76	55.55	0.59	18.18	25.92	55.90	0.59	31.68	68.32	0.72	5.5	80
19	ETT_SP_10014-5B	1.18	21.52	25.12	52.18	0.84	0.69	21.62	25.25	52.44	0.84	21.77	25.42	52.80	0.85	32.50	67.50	1.09	6.0	76
20	ETT_SP_10014-5C	1.45	20.56	25.44	52.54	0.73	0.63	20.74	25.65	52.98	0.73	20.87	25.81	53.32	0.74	32.62	67.38	0.93	6.0	74
21	ETT_SP_10014-5D	1.38	20.29	25.88	52.46	1.01	0.67	20.43	26.06	53.83	1.02	20.57	26.24	53.19	1.03	33.04	66.96	1.29	6.0	81
22	ETT_SP_10014-5E	1.26	19.34	25.88	53.52	0.86	0.61	19.47	26.05	53.87	0.87	19.59	26.21	54.20	0.87	32.59	67.41	1.08	6.0	80

QUALITY ASSURANCE/QUALITY CONTROL DATA

STANDARD	ASH	VOL	TSUL
STADLWS-22/20	19.45	18.16	0.616
Certified Value	0.65	0.16	0.017
Unit	%	%	%
Analyzed value	18.08		0.619

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.  
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