Appendix B

EAST FACE DISCONTINUITY MAPPING

RMI - MID CONTINENT MINE

Date: 4/13/2023

Sheet #: 1 of 1

ROCK MASS DISCONTINUITY CHARACTERIZATION FORM

Location: Glenwood Springs, CO

Domain: East Face

Slope Length: 400 ft

Slope Dip/Direction: 80 / 172

Slope Type: Natural and Mined

Friction Angle: 35

GSI Range: 65-75

Est. Comp. Strength:

Line Survey Number: window survey

Project #: P-23018SS

Logged By: S. Sundermann

KILDUFF UNDERGROUND ENGINEERING, INC.

	Geologic Unit	Discontinuity Type	Dip Dir.	Dip	Persistence	Spacing	Aperature	Infilling / Weathering	JRC	Surface Shape	Roughness	Termination	Seepage Condition	Significance Rating (1-5)	Confidence (High-Low)	Notes/Failure Modes
Lower East Face	Limestone	Fault	83	76	Medium	NA	Open	Gouge		Undulating	Slickensided	0	7	5	Moderate	Parallel fault splays
	Limestone	Joint	67	72	Medium	Moderate to Wide	Partly	unknown	8-10	Planar	Slightly Rough	1	2	3	Low	Base of East Face
	Limestone	Joint	178	26	Medium	NA	Very Wide	No infill	16-18	Undulating	Rough	2	1	5	Moderate	Potential Sliding block
	Limestone	Joint	177	90	Low	NA	Very Wide	No infill	8-10	Planar	Mod Rough	1	1	5	Low	Release on sliding block
	Limestone	Joint	36	29	Low	NA	Very Wide	No infill	8-10	Planar	Mod Rough	1	1	5	Moderate	
	Limestone	Fault	32	50	Medium	Very Wide	Very Wide	4" weak	6-8	Planar	Slightly Rough	0	7	4	High	Interbed? Infilled with weak clay with clasts
	Limestone	Joint	324	48	Medium	Very Wide	Very Wide	weak infill	6-8	Planar	Slightly Rough	0	7	4	High	
	Limestone	Joint	238	83	High	Very Wide	Very Wide	weak infill, roots	6-8	Planar	Slightly Rough	0	7	3	High	Exfoliation in drainage
	Limestone	Joint	227	80	Medium	Very Wide	Wide	No infill	NR	Undulating	Slightly Rough	1	1	4	High	
Upper Limestone Beds	Limestone	Bedding	185	29	Very High	NR	NR	NR	10-12	Planar	Mod Rough	0	NR	1	High	Effervescent
	Limestone	Bedding	180	30	Very High	NR	NR	NR	10-12	Planar	Mod Rough	0	NR	1	High	
	Limestone	Bedding	191	30	Very High	Extr. Wide	Very Wide	Sandy CLAY	12-14	Planar	Mod Rough	0	8	1	High	Infill may be secondary? Roots
	Limestone	Joint	187	30	Very High	Extr. Wide	Very Wide	No infill	12-14	Planar	Mod Rough	0	2	2	High	
	Limestone	Bedding	186	30	Very High	NR	Very-Extr Wide	Signs of soil	12-14	Planar	Mod Rough	0	7	1	High	
	Limestone	Joint	63	40	Low	Mod Close	Open	No infill	8-10	Planar	Slightly Rough	1	1	3	High	Secondary, possible release
	Limestone	Joint	59	40	Low	Mod Close	Open	No infill	8-10	Planar	Slightly Rough	1	1	2	High	Secondary, possible release
	Limestone	Bedding	217	29	Very High	Extr. Wide	Extr. Wide	Weak Interbed	16-18	Planar	Rough	0	3	1	High	clasts of hard crystals
	Limestone	Bedding	202	29	Very High	Extr. Wide	Extr. Wide	Weak Interbed	16-18	Planar	Rough	0	3	1	High	clasts of hard crystals
	Limestone	Bedding	198	30	Very High	Extr. Wide	Extr. Wide	Weak Interbed	16-18	Planar	Rough	0	3	1	High	clasts of hard crystals
	Limestone	Joint	43	46	Low	Mod Close-Wide	Open	No infill	8-10	Planar	Slightly Rough	1	1	2	High	Secondary, possible release
	Limestone	Bedding	188	32	Very High	Extr. Wide	Very-Extr Wide	Weak Interbed	14-16	Planar	Rough	0	8	1	High	CaCO3 Stalactites
	Limestone	Joint	57	54	Low	Mod Close	Open	No infill	8-10	Planar	Slightly Rough	1	1	2	High	Secondary, possible release
	Limestone	Bedding	188	31	Very High	Extr. Wide	Very-Extr Wide	Weak Interbed	14-16	Undulating	Rough	0	7	1	High	CaCO3 Stalactites