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Hesperus, CO 81326

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September 18th 2024

State of Colorado
Division of Reclamation, Mining & Safety
1313 Sherman St., Room 215
Denver, CO 80203

Attn: Environmental Protection Specialist

Re: GCC Energy, LLC, King II Mine
CDRMS Permit # C-1981-035
Annual Compaction: King I Annual Compaction Results

Mr. Wein:

Please find enclosed a copy of Trautner Geotech's Annual Compaction Results of the King I Lower and Upper Refuse Piles.

Please contact me at 970.9094022, or at michael@summitmining.co f you have any questions or require any additional information.

Sincerely,

Michael Dickson

DAILY FIELD REPORT AND TEST RESULTSPROJECT NAME: *GCC Energy Mine Annual Refuse
Density Testing 2024*PROJECT NO.: *58549MT*DATE: *9/1/2024 thru 9/15/2024*TECHNICIAN: *See Below*REQUESTED SERVICE: *Nuclear Field Density Test*CONTRACTOR: *GCC*EARTHWORK CONTRACTOR: *GCC*FOREMAN: *Wade*

Technician field notes and comments: We arrived on-site as requested. We performed six (6) nuclear field density tests on previously placed and compacted material. All test results were verbally given to Wade. *Elevation descriptions should be considered approximate and are based on field observations.

NUCLEAR FIELD DENSITY TEST RESULTS

Date	Test No.	Test Location	Probe Depth (in)	Test Elevation	Proctor Density (PCF)	Optimum Moisture (%)	Field Density (PCF)	Field Moisture (%)	Relative Compaction (%)	Material Type	Technician
9/11/24	1	Refuse pile – Lower/lower, SW corner	8	7424	82.7	13.5	84.6	6.4	100	Coal mine reject material Lab 5077-A	P. Walston
9/11/24	2	Refuse pile – Middle, NE corner	8	7430	82.7	13.5	88.6	6.3	100	Coal mine reject material Lab 5077-A	P. Walston
9/11/24	3	Refuse pile – Bench, NW side	8	7428	82.7	13.5	85.4	6.5	100	Coal mine reject material Lab 5077-A	P. Walston
9/11/24	4	Upper refuse pile – NW side near entry road	8	7564	82.7	13.5	82.4	6.4	100	Coal mine reject material Lab 5077-A	P. Walston
9/11/24	5	Upper refuse pile – center S	8	7556	82.7	13.5	89.5	6.4	100	Coal mine reject material Lab 5077-A	P. Walston
9/11/24	6	Upper refuse pile – NE	8	7570	82.7	13.5	86.5	6.4	100	Coal mine reject material Lab 5077-A	P. Walston

Gauge Moisture Verification Against Nuclear Gauge**Project:** GCC Energy Annual Refuse Pile Density testing **Project No** 58549MT **Date:** 9/11/2024

2024

Lab No.	Date	Tare	Tare + Wet	Tare + Dry	Wt. of Water	Wt. of Dry Soil	% Moisture	Gauge Moisture	Difference In Readings	Gauge No.	Test Location
5247-A	9/11/2024	618.3	2320.4	2219.2	101.2	1600.9	6.3	32.3	26.0	33	Test #2
5247-B	9/11/2024	585.8	2262	2159.6	102.4	1573.8	6.5	34.9	28.4	33	Test #3
								AVG:	27.2		