MILESTONES

Carbon Ore, Rare Earth, and Critical Minerals (CORE-CM) Assessment of San Juan River-Raton Coal Basin

March 24, 2022

SUBMITTED BY

Virginia T. McLemore, CoPI
New Mexico Bureau of Geology and Mineral Resources
New Mexico Institute of Mining and Technology (New Mexico Tech)
801 Leroy Place Socorro, NM 87801 USA
Phone 575-517-0525
Email: virginia.mclemore@nmt.edu

Technical Contact and Principal Investigator: Prof. Navid Mojtabai
Mineral Engineering Department
New Mexico Institute of Mining and Technology, Socorro, NM 87801 Phone: (575) 835-5836, Fax: (575) 835-5252,
email: Navid.Mojtabai@nmt.edu

SUBMITTED TO

U.S. Department of Energy National Energy Technology Laboratory

Milestones (bold=completed)

Task/ Subtask	Milestone Title	Planned Completion	Verification method	Status
	Quarterly reports	Quarterly	Report every quarter	2/6/2022 completed
1.0	A: Project Kick- off meeting	10/15/21	Attend, report	Completed (see https://geoinfo.nmt.edu/staff/mclemore/documents/CORE-CMprojectNMfinal.pdf)
2.1	B: Identification of Sampling Sites	Quarterly	Reports every quarter	Ongoing, planned in 2 phases
2.2	C: Collection and Review of Existing Data	2 nd quarter	Map, description	Report in progress, ongoing activity
2.3	D: Sampling Plan	10/31/2021, progress report 2 nd quarter.	Sampling plan	Sampling plan is completed (https://geoinfo.nmt.edu/staff/mclemore/documents/samplingplan_v3.pdf).
	Database	3/31/2022	Database, web forms, reports.	Database and data entry web pages are being developed; initial availability expected 3/31/2022.
2.4	E: Collect Samples	Quarterly	Report, database	Start sampling in April 2022 (weather and COVID permitting)
2.5	F: Characterization	Quarterly	Progress report quarterly, database	Ongoing once samples are collected
2.6	G: Application of Machine Learning techniques for Basin-wide Assessment	12/31/2022	Progress report quarterly, database	Future activity
3.0	H: Sampling and Characterization of Waste Streams	Quarterly	Progress report quarterly, database	Ongoing, future activity
4.0	I: Results of Basinal Infrastructure, Industries and Business Assessment	03/31/2023	Progress report quarterly, database, publications	Future activity

5.0	J: Initial	03/31/2023	Progress report	Future activity
	Technology			
	Assessment and			
	Field Test			
	Development			
	Plan			
6.0	K: Initial	09/30/2022	Progress report	Future activity
	Technology			
	Innovation Center			
	Plan			
7.0	L: Workshop	Quarterly	Progress report, Summary	Presentations, future activity,
	Report,		article to Gold Pan	
	Publications,		completed (NMT alumni	
	Web Pages		newsletter Winter 2022), web	
			page developed (see	
			https://geoinfo.nmt.edu/staff/m	
			<pre>clemore/REEinCoalWeb.html)</pre>	