



JOE LOMBARDO
Governor

STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 • Fax (775) 684-7052
<http://minerals.nv.gov/>

Las Vegas Office: 375 E. Warm Springs Rd. #205, Las Vegas, NV 89119
Phone: (702) 486-4343; Fax: (702) 486-4345



MICHAEL VISHER
Administrator

COMMISSION ON MINERAL RESOURCES

Nevada Division of Minerals
Nevada Legislative Building
401 S. Carson St.
Room 3138
Carson City, NV 89701

Thursday August 10, 2023

10:00 A.M.

AGENDA

CALL TO ORDER

The agenda for this meeting of the Commission on Mineral Resources has been properly posted for this date and time in accordance with NRS requirement.

ROLL CALL

PLEDGE OF ALLEGIANCE

COMMENTS BY THE GENERAL PUBLIC

Pursuant to N.R.S. 241, this time is devoted to comments by the public, if any, and discussion of those comments. No action may be taken upon a matter raised under this item on the agenda until the matter itself has been specifically included on a successive agenda and identified as an item for possible action. Public comments may be limited to 5 minutes for each person. **ACTION WILL NOT BE TAKEN**

I. AGENDA

A. Approval of the Agenda

FOR POSSIBLE ACTION

II. NEW BUSINESS

A. Interview selected candidates for the Administrator Position

FOR DISCUSSION ONLY

Interviews of selected candidates for the position of Administrator will be
Conducted by the Commission. – Rebecca Tims

B. Discussion and possible selection of a new Administrator

FOR POSSIBLE ACTION

The Commission will discuss candidate qualifications and may appoint a new
Administrator.

III. RECESS UNTIL 1:00 PM (OR CALL OF THE CHAIR)

IV. NEW BUSINESS CONTINUED

A. Rock, Mineral, and Geology Display Proposal

FOR POSSIBLE ACTION

A proposal will be provided by the Nevada State Museum for the
Commission to fund a new Rock, Mineral, and general geology
at the Nevada State Museum in Carson City. – Josh Bonde

- B. Proposal to fund purchase of new equipment at the Mining Center of Excellence **FOR POSSIBLE ACTION**
A proposal will be provided for a request for financial assistance to purchase equipment for the Nevada Mining Center of Excellence, a joint venture educational and research facility in Elko. – Sam Spearing

- C. Review of Division of Minerals recent education and outreach **FOR DISCUSSION ONLY**
An update will be presented on the Fiscal Year 2023 education and outreach efforts including classroom presentations, teacher workshops and Mining for a STEM Education course. – Carol Shelton & Garrett Wake

V. OLD BUSINESS

- A. Review of Division of Minerals federal AML partner agreements **FOR DISCUSSION ONLY**
A review of the federal AML partner grants, cost share agreements and assistance agreements will be provided and their effects to the agency's budget. – Rob Ghiglieri

- B. Financial Update FY23 to FY25 **FOR POSSIBLE ACTION**
A financial update will be provided for FY23 including forecasts for FY24 and FY25. - Mike Visser

VI. COMMISSION BUSINESS

- A. Review of staff monthly activity reports. **FOR DISCUSSION ONLY**
B. Set date for next Commission meeting. **FOR DISCUSSION ONLY**

COMMENTS BY THE GENERAL PUBLIC

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ADJOURNMENT

NOTICE TO PERSONS WITH DISABILITIES

Members of the public who are disabled and require special accommodations or assistance at the meeting are requested to notify the Division of Minerals, 400 W. King Street, Suite 106, Carson City, NV 89703 or contact Rebecca Tims at (775) 684-7043 or by email at rtims@minerals.nv.gov.

II. New Business

II. A Interview selected candidates for the Administrator position

Robert A. Ghiglieri
Cover Letter
Administrator – Nevada Division of Minerals

Ms. Tims,

The vast landscapes of Nevada are my home. I have worked, traveled, and spent time in every County in Nevada. Anyone who has traveled Nevada and is knowledgeable about its history, understand the role that the Mineral Industry has played and continues to play within this great State.

For nearly the past 11 years I have dedicated my career to the various positions and programs within the Nevada Division of Minerals. During my time at the Division of Minerals, I have gained invaluable experience in the advancement and management of one of the largest hardrock Abandoned Mine Lands (AML) programs in the Nation. As the Chief of the AML program, I quickly learned how to adapt to the many facets of program management. Under my leadership, the program has set the Division record for the highest number of hazards secured by staff and contractors, as well as the largest amount of historic mining features inventoried in a calendar year. During that time, I built and strengthened multiple Federal, State and Local Government partnerships, developed strong public relations skills, and utilized partners funding to pay for over 50% of all funding for the AML programs contracting budget during my last three years as Chief. Furthermore, I led the migration of the entire AML program from pen and paper to full digital data collection in partnership with the Army Corps of Engineers where we utilize tablets, ESRI software, Drones, and LiDAR.

The last three years have held the Deputy Administrator position which has gave me the opportunity to further develop program and project managerial skillsets, but also reinforced my abilities required for the oversight of an agency. As the Deputy Administrator my role is to assist in the management of all facets of the agency while working with the various program managers, operate the reclamation bond pool, manage the agency budget with the Program Officer, and support the Administrator as needed.

Recently, I have Chaired the Hardrock Committee for the National Association of Abandoned Mine Lands Program (NAAMLPL). In coordination with the Interstate Mining Compact Commission (IMCC) we have provided a central voice for states and tribes that have AML impacted lands to assist Office of Environmental Policy and Compliance (OEPC) in the development of the new Hardrock AML Program under IJIA Section 40704. With my experience in AML database development, I have also assisted the USGS in their design and now testing of the new National Hardrock AML database to accompany OEPC's Hardrock Program.

Over my career I have been able to gain the valuable knowledge about the Mineral Industry and will be able to answer or research any questions that may arise from partnering agencies or the public. While at the Division, I have educated and presented the importance of the minerals industry and various agency programs to a wide variety of audiences from k-12 classrooms to the Legislature. I have represented the Division and the State of Nevada's while at the Nevada exhibit booth at the Prospector and Developers Association of Canada (PDAC) American Exploration and Mining (AEMA), NAAMLPL, IMCC, and other various professional organizations.

My upbringing and career have shaped my understanding of Nevada being a mecca for the Minerals Industry. To effectively meet the mission of the Division of Minerals, we need to maintain existing relationships and be creative in forging new ones with stakeholders from the industry, as well as government agencies and the public. As the Administrator, I will provide leadership through dedication, hard work, strategic thinking, and clear and concise communication between the Commission, Division, Governor's Office, Legislature, Industry and Public. I will continue to support and represent the Commission and Division personnel while achieving the mission of the Division of Minerals to promote and assist the mineral industry across Nevada, efficiently and effectively regulated Fluid Minerals and continue to build on the already award-winning AML program. Thank you for your time and consideration.

Sincerely,



Rob Ghiglieri

Robert A. Ghiglieri



Profile:

During my career at the Division of Minerals I have worked in all facets within the Division of Minerals. I have performed AML preliminary research, planning, inventory, securing and safeguarding work, project management, grant and contract management, agency program management, reviewed and updated Administrative Codes, developed, and maintained partner agency relations, increased funding, supervised staff, and contractors, and prepared the agency budget. I have extensive experience providing written and oral representation of the Division of Minerals as well as coordination between partnering agencies. There is not an aspect of the Division of Minerals that I have not completed myself or been a part of in one aspect or another.

Education:

Bachelor of Science, Geology (2010); University of Nevada, Reno.

Division of Minerals Administrator Goals:

Over the last 10+ years, my career has prepared me and given me the required tools needed to succeed as the Administrator of the Division of Minerals. Having diverse experience including precious metal exploration, program and agency management within the Division of Minerals, and unique experiences as a wildland firefighter, I appreciate the opportunity to continue my professional career. As the Administrator I plan to use my knowledge of the Mineral Industry, experience in and with State and Federal Governments, leadership in program management, and ability to create, build, and maintain relationships to enhance the mission of the Division and uphold the State of Nevada in the highest regard.

Key Experience:

- Agency management.
- Review, modifications, and approval of technical, complex, and sensitive project plans that impact the agency.
- Management of agency Internal Controls.
- Grant manager.
- AML project and program administration.
- Fluid Minerals permit experience.
- Building, maintaining, and modifying the agency budget.
- Coordinated AML work on State, Federal, and Private lands.
- Partnered with over ten separate agencies or groups to combine funding, expertise, and knowledge to execute AML projects throughout the State of Nevada.
- Experience reviewing, interpreting, and updating Nevada Administrative Codes.
- Experience reviewing and interpreting the Federal Code of Regulations.
- Extensive experience with internal, public, and partner reporting.
- Training and supervision of AML seasonal, permanent staff, and contractors.
- Nevada representative for the Interstate Mining Compact Commission.
- Current Chair of the Nevada Abandoned Mine Lands Environmental Team.
- Current Chair of the Hardrock AML Committee for the National Association of Abandoned Mine Lands Program (NAAMLN).
- Nevada Delegate of NAAMLN since 2014.

- Recipient of the NAAML 2019 Hardrock AML Physical Safety AML Project of the Year.
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Professional Experience:

Deputy Administrator, Nevada Division of Minerals

May 2020 – Present; 40 hours/week, PFT.

Supervisor: Mike Visser

As the Deputy Administrator of the Nevada Division of Minerals, I worked closely with the agency Administrator and assisted as needed with any programs or activities performed by the agency. Duties included but not limited to:

- Manager of the Nevada Division of Mineral's Reclamation Performance Bond Pool.
- Coordinated with several Federal Land Management agencies regarding their AML programs ensuring extensive communication and support to protect both humans and the environment.
- Assist all Division of Minerals program managers with oversight of their programs.
- Compliance manager for all agency internal controls, contracts, and grants.
- Plan with the Program Officer and submit the agency's bi-annual budget and coordinate with the Governor's Finance Office and Legislative Council Bureau during the approval process. This includes all forecasted revenue, expenditures, enhancements, equipment purchases, and personnel.
- Submission of work programs to the Governor's Finance Office for changes to budget authority and quarterly reconciliation reports to the State Controller's Office for the Reclamation Bond Pool.
- Act as Administrator designee in review and approval of oil, gas, geothermal and dissolved mineral resource exploration permits.
- Work with the Program Officer and approval of purchases and invoices for the agency.
- Answer questions from the public regarding the industry, mineral estates, mining law, and the proper location and filing of mining claims.
- Speak at various trade and public outreach events on agency activities and the many facets of the Division and minerals industry.
- Track all federal and state legislation that would affect the Division of Minerals, AML programs, or mining, geothermal, and oil and gas industries.
- Assist the Administrator in coordination of the Commission on Mineral Resources quarterly public meetings.
- Assist the Administrator in review, modifications, or creation of new agency Administrative Code.
- Various other duties as assigned by the Administrator.

Deputy Administrator Accomplishments

During my time as the Deputy Administrator, I have successfully assisted the Administrator in the management of all programs under the Division of Minerals. This includes but is not limited to the review of all agency programs, internal controls, contracts, grants, any sensitive or complex legislative changes, and creation and management of the budget. I continued to build partnerships, supervise, and assist in the management of the agency's AML program. During this time there has been a significant increase in the amount of federal funding, reaching the highest level in the agency's history and more than doubled the number of contracts to manage the growing workload.

Chief, Abandoned Mine Lands Program; Nevada Division of Minerals

September 2013 – May 2020; 40 hours/week, PFT.

Supervisor: Richard Perry

As the Chief of Abandoned Mine Lands (AML) Program my role was to manage the agency's AML program. My responsibilities included:

- Discover dangerous conditions that result from mining practices which took place at a mine that is no longer operating, identify if feasible the owner or other person responsible for the condition, and rank the conditions found.
- Notify on an annual basis the board of county commissioners concerning the dangerous conditions found in the respective counties, including their degree of danger relative to one another and to those conditions found in the state.
- Manage the paperwork and fieldwork associated with operation of the Division's AML program. This includes:
 - Determine if a responsible party exists and to notify any such party.
 - Manage and maintain the AML program files and AML database using GIS.
 - Plan and organize field work.
 - Create, implement, and manage all closure project work.
 - Maintain an adequate supply of field materials including trucks, fencing, and signage necessary to carry out the AML program fieldwork.
 - Manage the summer intern program.
 - Supervise and manage the Division's AML Field Specialist staff.
 - Coordinate the Division's AML program with the proper State and federal land management agencies.
- Provided quarterly updates on AML Program to the Nevada Commission on Mineral Resources on the AML programs projects and related program activities.
- Educate the public to recognize and avoid hazards associated with abandoned mines.
- Operate the AML program and manage the budget while seeking additional funding sources from other partnered federal agencies.
- Assist in carrying out the Division's minerals education program.
- Assist the Deputy Administrator in contract and grant management.

Chief of the AML program Accomplishments:

- Under my leadership over 4,000 AML hazards have been discovered, and over 3,500 hazards have been secured by NDOM staff or Contractors. Over 90,000 historic mining related features have been identified under my leadership.
- Recipient of multiple grants by the U.S. Army Corps of Engineers Restoration of Abandoned Mines Program to develop and build an AML database for Nevada.
- Manage the design, development, and implementation of NDOM's new AML GIS interactive enterprise geodatabase and migration from the previous Access database, allowing for the development of the first full digital field data collection in NDOM history.
- Worked with partner agencies to achieve National Environmental Policy Act (NEPA) compliance for closures on State and Federal land.
- Completed the Division's largest and most complex AML closure projects in its history and exceeded annual averages of inventory and securing of AML hazards.
- Recipient of the 2019 National Association of Abandoned Mine Lands Program Hardrock AML Remediation Award.
- Successfully develop and expand relationships with Federal, State, and Local government partners, non-government organizations (NGOs), and raised nearly 50% of all funding toward the contracted AML work under my leadership as the AML Chief.
- Developed and/or managed contracts and assistance agreements with the Bureau of Land Management, U.S. Forest Service, National Park Service, the US Army Corps of Engineers Nevada Division of Environmental Protection, Nevada Department of Wildlife, Nevada State Parks, Nevada State Lands, Nevada Division of Forestry, Clark County Real Property, Clark County Desert Conservation, the City of Carson, and Tonopah Historic Mining Park.
- Compiled AML data and produced annual reports on the NDOM AML program. These various reports were provided to the BLM, USFS, the State Historic Preservation Office (SHPO), the Commission on Mineral Resources, industry, and the public.
- Extensive public speaking experience.

AML Field/GIS Specialist; Nevada Division of Minerals

October 2012 – September 2013; 40 hours/week, PFT.

Supervisor: Alan Coyner

During the time I was in the role as one of the AML field specialists, my main responsibilities included:

- Providing support to the Chief, Abandoned Mine Lands Program in planning and prioritization of fieldwork, data entry and evaluation, and timely responses to public and industry inquiries.
- Perform inventory and ownership research of, and public safety securing work at, abandoned mine features located throughout the state.
- Coordinate with owners of unpatented mining claims, private lands, and patented mining claims with unsecured AML hazards on their lands, provide information as needed, and track all communications between the owners and Division.
- Assist with the training and field supervision of up to eight AML interns.
- Provide classroom and public presentations informing the public of the hazards posed by abandoned mine features and on the uses and importance of minerals in society.
- Participate and teach in the Nevada Mining Association Education Committee annual Earth Science Teacher Workshops.
- Utilize ArcGIS to create/update maps and geodatabases supportive of the AML, Fluid Minerals, and Education/Outreach programs.
- Represent the Division at various mineral industry trade shows and public outreach events.
- Various other duties as requested by the Administrator.

Geologist; Rye Patch Gold US Inc.

February 2010 – May 2010 & September 2010 – October 2012; 40 hours/week, PFT.

Supervisor: William Howald

As a Geologist, I assisted the Senior Geologist with day to day operations in an exploration mining company. The duties entailed:

- Involved with the Rye Patch and Coeur Rochester litigation where I was given a crash course in Mining Law.
- Operated on 5 different project locations equaling more than 30,000 meters of reverse circulation and 5,000 meters of core drilled.
- Managed day to day operations for Core and RC drilling programs including coordinating drilling permits, logging both RC and Core samples and coordinating the construction and reclamation of roads and drill pads.
- Identified exploration drill targets by performing geologic mapping, rock, and soil sampling, analyzing geophysical models, and past drill results.
- Reviewed all drill and sampling data and put into the standardized format for database entry.
- Reviewed contractors' invoices for accuracy before submitting for payment.
- During my time, I Assisted in the increase of gold and silver resources on 4 different projects in Nevada.

Wildland Fire Fighter; Bureau of Land Management

(2007-2010 summers)

- Suppressed nearly 100 fires varying in size from a single tree to 50,000+ acres without a single incident or accident.
- Advanced communication, teamwork, and leadership skills.
- Developed the ability to have a strong situational awareness, allowing for the ability to problem solve and make quick, educated decisions.
- Became a qualified engine operator by my third summer and supervised junior firefighters.

- Assisted the Engine Captain in tactical suppression decision-making.
 - Honed skills in multi-tasking in a high-pressure work environment.
 - Earned the role of Incident Commander (IC) Type 5. I was the IC on a handful of fires including challenging helicopter operations with zero incidents or accidents.
 - CPR and First Aid trained.
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Key Trainings:

- Certified Contract Manager 04/2022
- American Exploration and Mining Association (AEMA) Mining Law Short Course 12/2018
- HAZWOPER Awareness 05/2022
- BLM Nevada AML Training 01/2023
- UAS Remote Pilot Certification 05/2018 (expired)
- Mine Safety and Health Administration Surface Miner 24 hour
- TopCorp Oil and Gas Training 09/2022
 - Petroleum Geology
 - Petroleum Engineering & Technology
 - Environmental Stewardship
 - Emerging Trends and Communications
- Deputy Archeological Technician 05/2022

Nevada Specific Trainings:

- Certification for Nevada Certified Contract Managers 04/2022
 - Advantage Financial System 04/2020
 - Alcohol and Drug Testing Procedures for Supervisors 05/2020
 - Equal Employment Opportunity for Managers and Supervisors 05/2020
 - Interviewing & Hiring 04/2022
 - Risk Management, Basic Office Ergonomics 08/2020
 - Risk Management, Accident Investigations 09/2020
 - Nevada Information Security Awareness 12/2020
 - Evaluating Employee Performance 12/2020
 - Work Performance Standards 12/2020
 - Progressive Disciplinary Procedures 02/2022
 - Handling Grievances 02/2022
 - Information Security Awareness 12/2020
 - Sexual Harassments 02/2022
 - Defensive Driving 05/2021
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Recent Volunteer Experience:

Carson City Open Space Advisory Committee

As an Advisory Committee member, I assist the Carson City Open Space program to guide and advise the management of the nearly 10,000 acres of open space lands surrounding Carson City, NV.

Volunteer at my children's school and coaching their sporting events including Baseball and Soccer.

References:

Mike Visher
Nevada Division of Minerals
Administrator

[REDACTED]

John Callan
Bureau of Land Management
Nevada CERCLA Lead and Acting Abandoned Mine Lands Program Lead

[REDACTED]

Tom Clarke
Interstate Mining Compact Commission
Executive Director

[REDACTED]

Additional references available upon request

John Paul Spring



July 20, 2023

Rebecca Tims
Administrative Assistant IV/HR Coordinator Nevada Division of Minerals
rtims@minerals.nv.gov
775-684-7043

Dear Rebecca,

I am excited to apply for the role of Administrator for the Nevada Division of Minerals. Upon working with the division recently at the Northern Nevada Teacher Workshop, Rob Ghiglieri mentioned that an opportunity to join the team was coming to fruition and I was encouraged to apply.

My passion revolves around producing good science and educating others. I started off my professional career teaching Secondary Science in the United States and abroad. However, once I took a role working in economic geology an additional passion formed around the mining industry. They are very interconnected. Environmental stewardship is paramount, as well as recognizing our daily lives revolve around resources that need to be mined. When it comes to conducting any mining activities there is incredible importance to provide meaningful and accurate information to the government to make decisions, and the public to keep them informed and involved. The operation of mineral extraction on our public lands requires the highest regard for environmental stewardship as well as providing an economic engine that drives Nevada. I have worked for mining companies of all sizes, and I understand the impact proper permitting has on this process to ensure they are responsible in their operations. This goes hand in hand with ensuring streamlined efficient support for this industry is there, and good communication is in place with the public sector.

Although I have never served a government agency before, I feel my hardrock mining experience in precious metals in Nevada and across North America positions me well from a technical perspective. Having worked on projects through the entire mining life cycle (exploration, through permitting, and then operation, finally reclamation). Couple that with my professional experience in education places me in a unique position to deliver on the duties of the division of minerals to provide meaningful resources to the state's K-12 system. I have been able to develop an excellent skill set of being an effective communicator, and advocate for the mining industry.

Thank you for your time and consideration. I look forward to learning more about the role and discussing my qualifications further. Mining is an essential part of our everyday lives and plays an especially important role for the state of Nevada. I am very excited to bring my professional mining and geological expertise to the division to help Nevadans keep moving forward.

Kind Regards,

A handwritten signature in black ink that reads "J. Spring".

J.Spring

John Paul Spring

Economic Geologist

I work for my people and place great value on teamwork, empowerment, people development, transparency, and safety through visible felt leadership.

Professional Profile

- Agile solutions-driven hard rock mining professional with formidable communication skills and leadership abilities within a team setting along with strong field skills in narrow vein high-grade low sulfidation epithermal gold/silver deposits, along with Carlin style disseminated gold deposits.
- Articulate communicator who can blend technical expertise with realistic production goals for an achievable outcome. Relationship builder across functional groups and drives stakeholder engagement.
- Encourage the best out of my teams and continually develop staff so they are equipped with the resources they need to achieve excellence; and to not be afraid to challenge the status quo becoming a change agent
- Grow depth within technical teams and build robust ore controlling systems.
- Stewardship of the orebody including risk management, reserve replacement and conversion, exploration
 - All stages of mining life cycle, exploration, PFS, FS, reclamation, even M&A.
- Safety oriented individual with multiple years of daily underground and field work without safety incident; and site/team advocate for established safety protocols, and reporting measures. Support implementation of ISO45001 across all operations.

Systems Experience and Proficiencies

- Maptek Vulcan
- Gemcom GEMS
- AutoCAD
- Leapfrog
- Adaptive budgeting
- ADP Workforce
- Visual Logger and RockWare Logview 7 (Digital Core Logging software)
- Grizzly slaying; comfortable around toe-in helicopter landings; and driving long distances in reverse up ramps underground.
- Acquire and SQL Database Systems
- AccessDatabases
- SQL Server Management Studio
- Leica Total Stations
- IFS/SAP/Oracle/JDE
- iAuditor (safety program)

Mining Methods

- Long Hole Stope
- Cut and Fill
- Shrink Stope
- Slusher Stope
- Timber mining
- Bulk Mechanized

Deposit Types

- Low Sulfidation Epithermal Narrow Vein
- Orogenic
- Low Sulfidation Epithermal Carlin Deposits
- Intrusion Related Gold

Professional Experience

Technical Specialist, Geology SME, Nevada Gold Mines (Barrick)

(Elko, NV May 2023-Current) Regional role, serving as a technical specialist for MRM in all aspects of geology, mining, resource management, operational improvements, development of technologies, support software solution rollouts across our 22 mines in Nevada.

Mineral Resource Manager Cortez District MRM, Nevada Gold Mines (Barrick)

(Crescent Valley, NV October 2021-May 2023). Geology manager for the Cortez complex, one of Barrick's three tier one assets in northern Nevada. Active mining operations at 3 open pits (Crossroads, Pipeline, Cortez Pits), 1 open pit project in prefeasibility (Robertson), and 2 underground operations (Cortez Hills Underground, Goldrush Underground). Manage all aspects of geological activities for the

Cortez complex, current operations, and upcoming projects. Manage a team of 75 geologists, geo-technicians, drill services and an additional 200 drilling contractors. Direct all ore control, reconciliation, resource modeling, geo modeling, drilling actions to provide critical deliverables for budget, LOM, R&R, drill planning/execution, and financials. Manage OPEX/CAPEX budgets of around \$50M USD. Annual Production 800koz-1.2Moz per annum with successful replacement of reserve depletion on an annual basis. Editor for NI-43101 Technical report, and all public disclosure documents, and exploration updates. Achievements from 2022 were year on year additions to resource of 3.7Moz and 1.3Moz to reserve, and execution of the drilling budgets coming in -15% under, and successfully advancing Robertson into feasibility. Additionally, commissioned two internal RC rigs to conduct derisk drilling in the UG.

Superintendent of Geology MRM, Nevada Gold Mines

(Leeville underground, Carlin, NV July 2020-October 2021) Manage all aspects of Geological activities at the mine and team of 11 geologists plus contractor management. Integrate corporate guidelines into workflows. Develop/maintain/track budget. Recruit/Develop/Cross train team to maximum potential and develop career skills. Coordinate team efforts with mine operations and engineering for plan execution and optimization. Coordinate all aspects of production and growth drilling. Responsible for geological components of projects with respect to ore characterization, mineralogical, metallurgical, ground support, hydrology, and LOM. Identify regional and near-mine resource expansion opportunities. Ensuring QAQC protocols, and SOPs are adhered to. Preparation of reports, presentations, and budgets, and perform presentations to senior management. Continual improvement change agent implementing best practices.

Chief Geologist, Hecla Mining

(Fire Creek underground, Crescent Valley, NV July 2018-July 2020) Manage all aspects of Geological activities at the mine and team of 15 geologists plus contractor management. Integrate corporate guidelines into workflows. Develop/maintain/track budget. Recruit/Develop/Cross train team to maximum potential. Coordinate team efforts with mine operations and engineering for plan execution and optimization. Oversee all aspects of production and exploration drilling and core logging. Responsible for geological components of projects with respect to ore characterization, mineralogical, metallurgical, ground support, hydrology and LOM. Identify regional and near-mine resource expansion opportunities. Ensuring QaQc protocols, and SOP's are adhered to. Prepare all reports, press releases for internal/external use, and perform presentations to corporate management. Conduct Scoping/Pre-feasibility level evaluations.

Chief Geologist, Klondex Gold and Silver

(Fire Creek underground, Crescent Valley, NV Nov 2016-July 2018) Manage all aspects of Geological activities at the mine and team of 15 plus contractors. Develop/maintain/track budget. Coordinate team efforts with mine operations and engineering for plan execution and optimization. Oversee all aspects of production and exploration drilling and core logging. Responsible for geological components of projects with respect to ore characterization, mineralogical, metallurgical, and ground support, hydrology. Identify regional and near-mine resource expansion opportunities. Ensuring QaQc protocols, and SOP's are adhered to. Manage underground production geology and coordinate the team efforts with mine operations and engineering for plan execution and optimization, face markup activities, underground geologic mapping and ore development sill drilling. Update vein solids and block models weekly. Reconcile mine plan/model/mill performance. Identify near-mine resource expansion opportunities. Conducting QaQc protocols and establishing/modifying SOP's to meet industry standards.

Senior Production Geologist, Sumitomo Metal Mining, (Pogo Underground, Delta Junction, AK 2015-2016) Manage mine geology and coordinate the team efforts with mine operations and engineering for plan execution, face markup activities, underground geologic mapping and designing near stope drilling. Identify near-mine resource expansion opportunities.

Senior Resource Geologist, Sumitomo Metal Mining (Pogo Underground, Delta Junction, AK 2012-2015) Develop, manage, and maintain mineral resource block models. Manage and validate geologic database and perform geostatistical analysis on drill hole data. Monthly mine/model reconciliation. Prepare mid-year and end of year calculations and compile yearly reserve and resource document in compliance with NI-43-101 reporting guidelines.

Exploration Geologist, Newmont Mining Corporation, Heli-supported exploration in Alaskan bush around Delta Junction and Tok AK in Tintina Gold Belt (summer of 2012). Responsibilities included soil sampling, BLEG sampling, mapping, sample submittals, firearm maintenance, grizzly slaying.

Project Geologist, Newmont Mining Corporation (Midas Underground, Winnemucca, NV 2010-2012)
Responsibilities included design and implementation of drill hole programs, flow of data cradle to grave, budgeting, generation of wireframe models mid-year and year end reserve vein models, generate composite files for all reserve veins, flagging and validation of channel and drillhole data, manage channel and drill hole databases.

Ore Control Geologist, Newmont Mining Corporation (Midas Underground 2008-2010), providing geologic support to production and engineering departments and managing underground ore control team. Responsible for training of new hire geologists and overseeing underground geologic mapping, managing database issues and support at weekly production meetings with mine management. Created wireframes and composites in Vulcan to assist with modeling. Planned and implemented drill programs.

Science Educator, Auburndale High School, Auburndale, WI, 2006-2008

Science Educator, John McGlashan College, Dunedin, New Zealand 2005-2006

Education

- BSc Professional Geology, University of Wisconsin-Oshkosh, 2005
- BSc Education Broad Field Natural Science, University of Wisconsin-Oshkosh, 2005

Certificates/Awards

- MSHA Underground Training
- ATF Clearance
- First Responder Training
- Benjamin A. Gilman International Scholarship recipient

References • References available upon request.

Alex Davidson
Vice President of Exploration
Hycroft Mining



Celeste Wilson
Resource Modeling Manager Carlin
Nevada Gold Mines



Rob Ghiglieri
Deputy Administrator
Nevada Division of Minerals



Christina Erling
Vice President Government Affairs North America
Barrick Gold Corporation



II.B Discussion and possible selection of a new Administrator

III. Recess

IV.A Rock, Mineral, and Geology Display Proposal



To: Nevada Division of Minerals

From: Nevada State Museum

Date: July 28, 2023

Re: Collaboration on updated Geology Exhibit in existing
Changing Earth Gallery

Background – The geology displays of the Nevada State Museum, Carson City currently occupy a 3,500 square foot gallery plus 20 linear feet of wall space along an adjacent stairwell (Fig 1 & 2). The exhibit characterizes rocks and minerals of Nevada throughout geologic time. At its entrance is a lengthy display (3 panels + a dated video) on Plate Tectonics (Fig 3). Elsewhere in the gallery is a 12 linear foot wall space covering the Rock Cycle (Fig 4).

Existing exhibits have been in place in their current form for nearly 30 years and need updating; in particular our wall on Plate Tectonics. The Nevada State Museum hosted 33,600 guests in FY2023, including numerous school tours. Guests visit us from Nevada, surrounding states, around the country, and abroad. Geology is an important story for not only the natural history of the Silver State, but also the socioeconomic history of our region. An updated telling of the geology of Nevada serves both the Mission of the Nevada State Museum as well as the Nevada Division of Minerals.



Proposal

The Nevada State Museum (NSM) requests a collaboration with the Nevada Division of Minerals (NDOM) to update/replace the Plate Tectonics and Rock Cycle Exhibits in Nevada's Changing Earth Gallery. We propose to install a free standing exhibit along the wall currently occupied by the existing Plate Tectonics exhibit (Fig. 3). The proposed new exhibit would follow the style and content of similar exhibits NDOM has fabricated for the Terry Lee Wells Discovery Museum (Discovery Museum) and the Las Vegas Natural History Museum (LVNHM). We propose the focus of this new exhibit to be regional tectonics, which can serve as a segway to minerals, geologic history, and physiographic provinces of Nevada. We further propose an updated Rock Cycle component be included in this potential new exhibit, and some component showing common minerals used in home products. The NSM hosts demographics significantly different than the Discovery Museum, and geographically distinct from guests of the LVNHM. This new exhibit will get the Mission of NDOM out to a larger audience leading to a larger educational impact. Director Bonde worked with Garrett Wake and NDOM on the implementation and design of the first exhibit at the LVNHM. As part of this collaboration we also propose a simple rock and mineral identification activity for the NSM Discovery Lab, which would be prominently provided courtesy of NDOM.

This collaboration will help the NSM more effectively tell the important story and relevance of the geologic history of Nevada to a diverse and wide-spread audience. This helps showcase the importance of geology and the minerals industry to guests. It is our hope that this collaboration can lead to future exhibit updates, such as supplementing the historic underground mine with exhibits and information on modern mining and the need for the mining industry in modern society.

Proposal:

- Stand Alone Exhibit Featuring Regional Plate Tectonics, Rock Cycle, Minerals in the home
- Simple Mineral/Rock Identification Activity in the Discovery Lab
- Cost not to exceed: \$80,000
- Seed for future Modern Mining Exhibits to complement Historical Mining

Respectfully,

Joshua W. Bonde Ph.D.
Museum Director



Figure 1

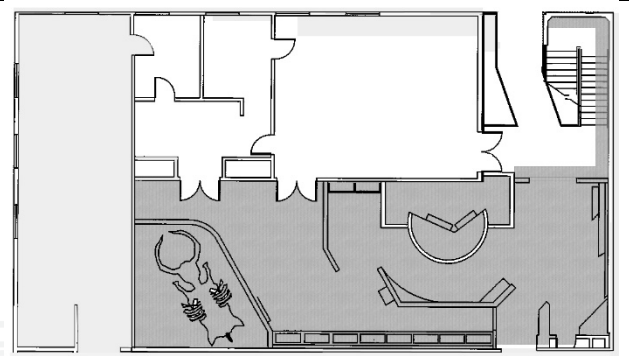


Figure 2. Geology shaded in Grey



Figure 3



Figure 4

IV.B Proposal to fund purchase of new equipment at the Mining Center of Excellence

The Mining Center of Excellence Update

Presentation to Nevada Division of Minerals
Commission on Mineral Resources

By

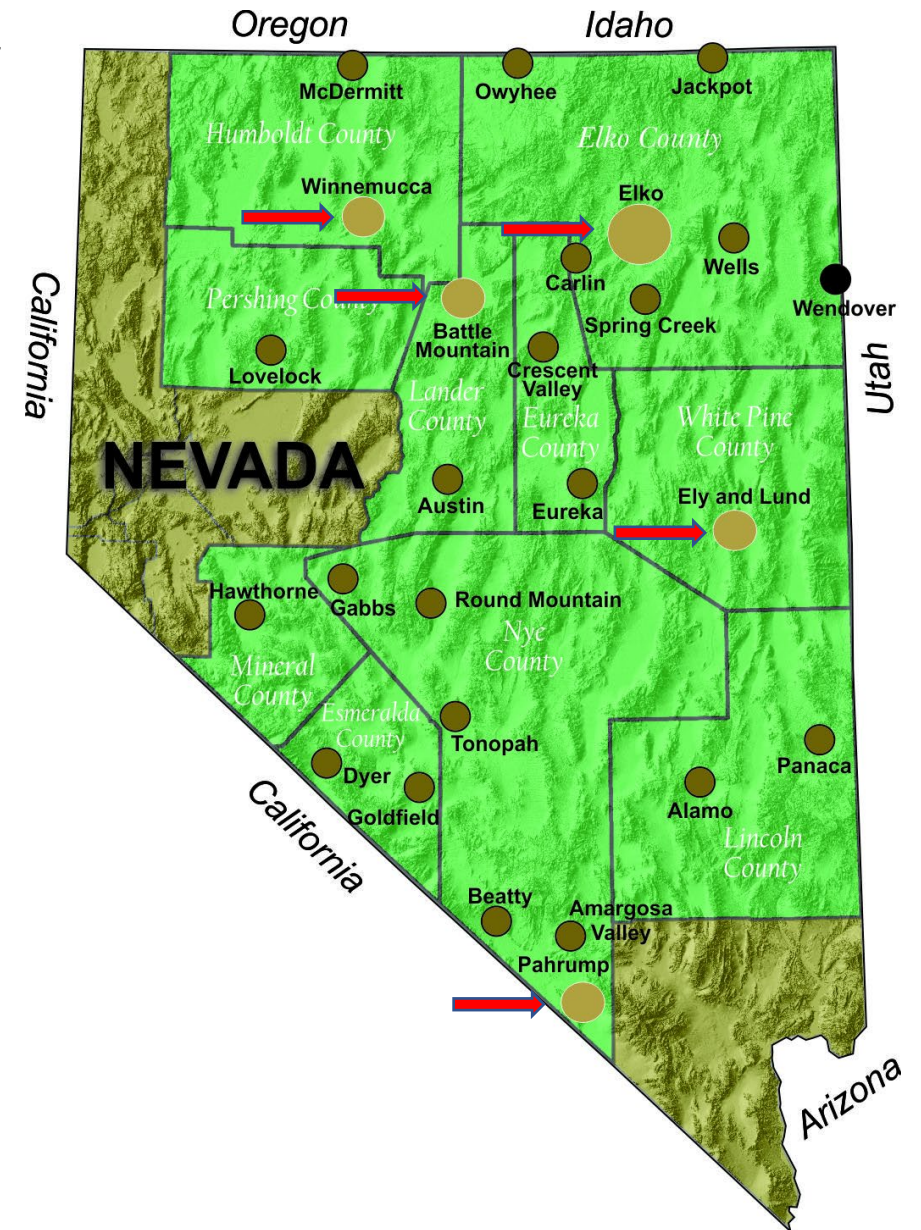
A.J.S. (Sam) Spearing-Executive Director
Workforce Development & Mining Center of Excellence, GBC

August 10, 2023



Great Basin College-Overview

- Over 4,000 students
- Offers Certificate, Assoc Degree & Baccalaureate Degrees
- Main campus in Elko
- Provides education for 86,000 sq. miles
- Satellite campuses in:
 - Battle Mountain
 - Winnemucca
 - Ely
 - Pahrump



Background

- We lack trained technical (STEMM) people in general.
- We cannot attract enough people into the mining industry.
- The mining industry is important to NV and the country at large but critical for the well being of rural Nevada.
- We need to offer high school students more options and pathways for careers, especially in STEMM.
- To meet the mining industry's workforce needs, GBC and UNR have started a mining collaboration in Elko to be called the Mining Center of Excellence (MCE) to fill this gap.
- The mining industry also has a critical need for workforce expansion and development, if we are to meet the climate change goals, globally set for 2030 and 2050.

The Mining Center of Excellence

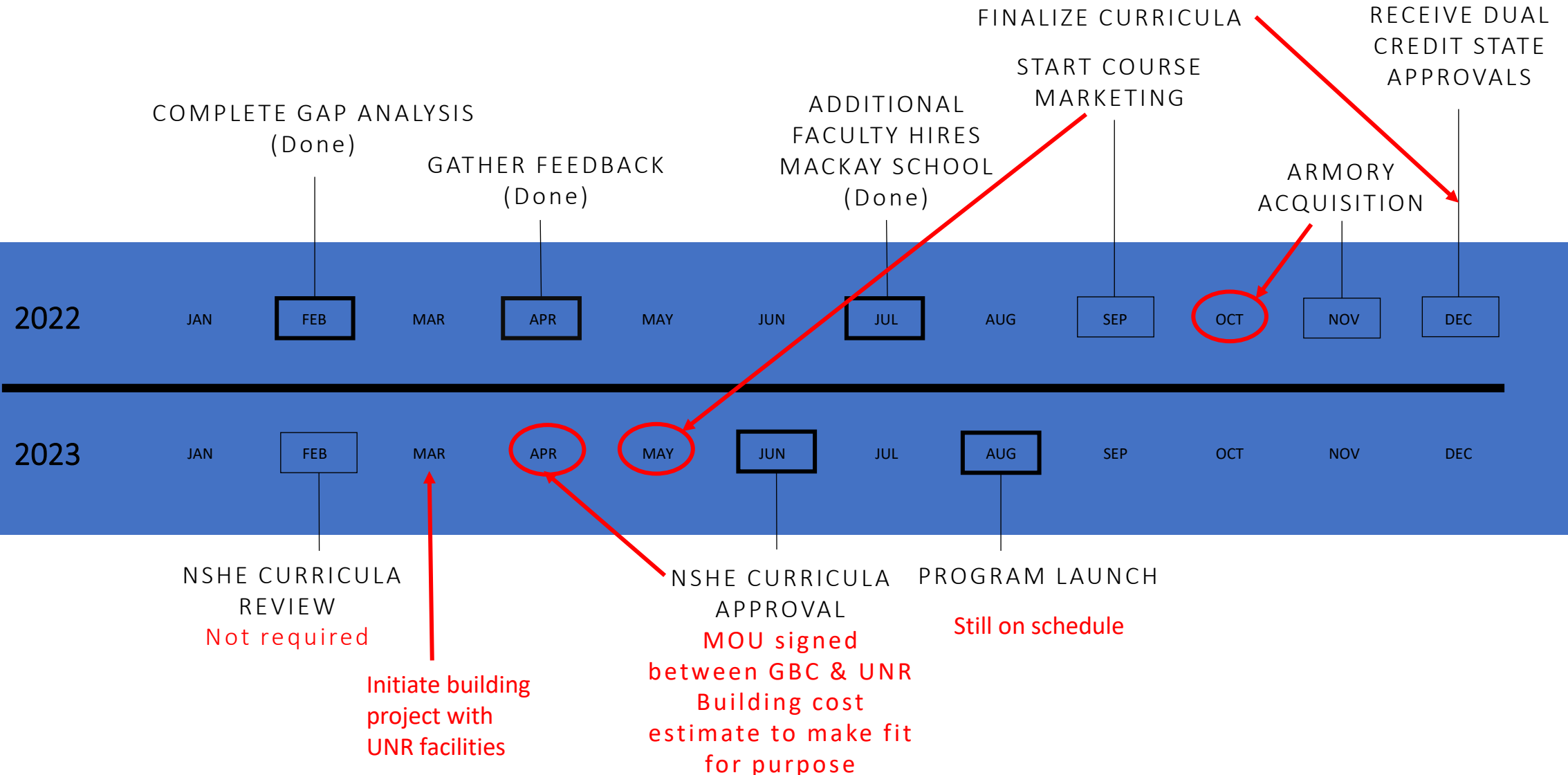
To help resolve the recruitment and training issues, GBC approached UNR and a joint facility is being established to be called the Mining Center of Excellence (if approved by NSHE).

The Center plans to do the following (with stakeholder guidance):

- Offer hybrid delivery dual credit high school certificates that will transfer to GBC and Mackay programs (geology, mining and metallurgy).
- Offer hybrid associate degrees with a focus on geology, mining or metallurgy.
- Offer continuing education (upskilling) courses for the mines as needed.
- Be a focal point and resource for mining industry related activities.

Timeline for Mining Center of Excellence

April 2022 plan vs August 2023 actual



Successes and challenges

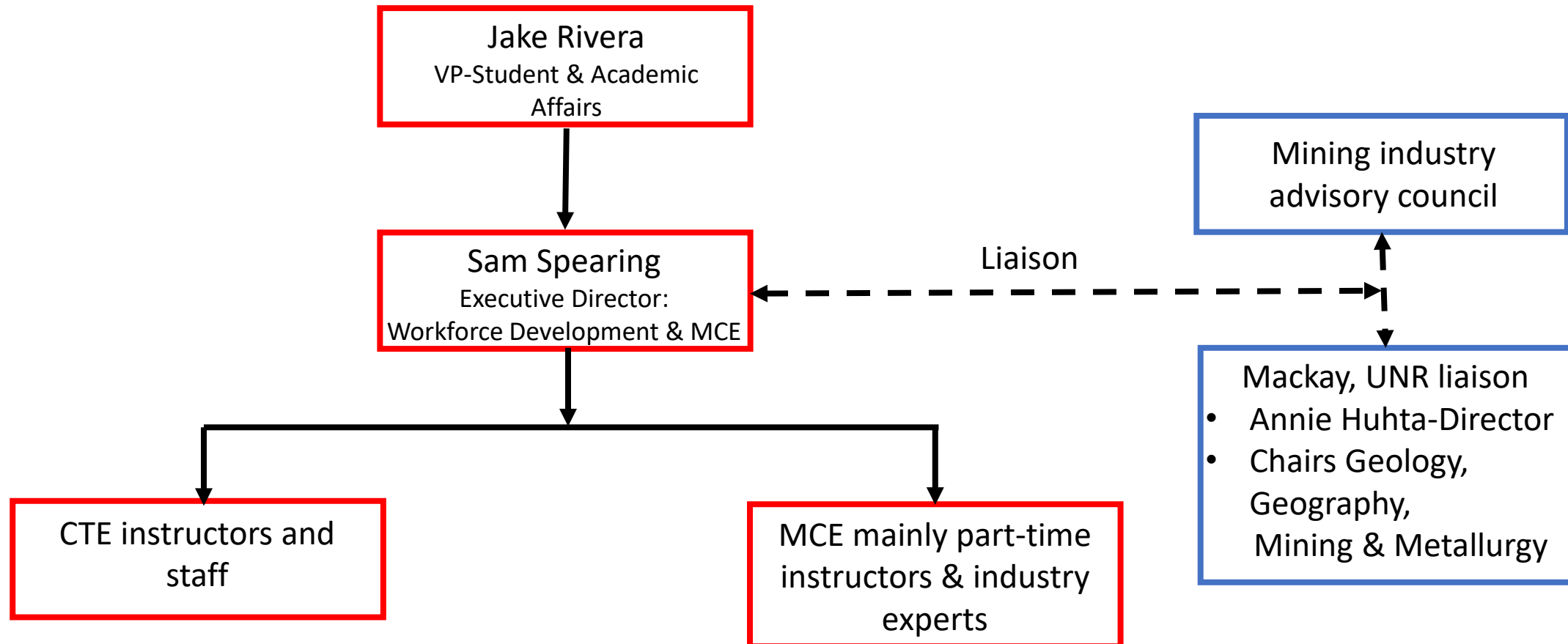
Successes:

- Executive Director in place.
- MCE formation and dual credit certificate curricula approved.
- Very effective Industry Advisory Council formed to guide the MCE.

Challenges:

- Until Jan 2023, the \$500k figure to make Armory fit for purpose was assumed correct.
- Courses could not be marketed until they were NSHE approved.

Macro MCE organizational chart



Current Mining Center of Excellence Advisory Council

- 
- Amanda Hilton – Chair
 - Dana Pray – Vice Chair (NvMA rep)
 - Sam Spearing (GBC MCE)
 - Tim Arnold (Integra)
 - Alissa Wood (NGM)
 - Melissa Schultz (NGM)
 - Allison Anderson (I80)
 - Matt Miller (Kinross)
 - Karrie Barrett (GBC Foundation)
 - Hugh Broadhurst (Lithium NV)
 - Dan Kappes (KCA)
 - Terri West (Coeur)
 - Vince Catalano (UNR)
 - Annie Huhta (Mackay Director)
 - Paula Noble (Geology Chair)
 - Adam Csank (Geography Chair)
 - Javad Sattarvand (Mining & Met Chair)
 - Mike Visher (NDOM)
 - Lisa Levine (GOWINN)
 - Zach Alexander (GOWINN)
 - Sheldon Mudd (NNRDA)
 - Heather Steel (Elko School District)

The MCE

- GBC took over the Armory (October 2022) which is conveniently located adjacent to GBC.
- Asbestos testing was completed in March 2023.
- An estimate to make the building fit for purpose is \$????m (originally a figure of \$500k was estimated).
- Room furniture, computer related equipment etc. would add another about \$500k (\$175k for furniture).



Equipment for the MCE being considered

Fixed Lab (at the Armory)

- Equipment simulator
- Point load rock tester
- Compression & tension rock core tester (& prep equipment)
- 3D topographical table/projector
- Crushing & grinding equipment
- Metal extraction systems
- Fire/rescue tanks/equipment
- Computers and mining software

Mobile (trailer mounted) Lab

- Mainly as per the fixed lab

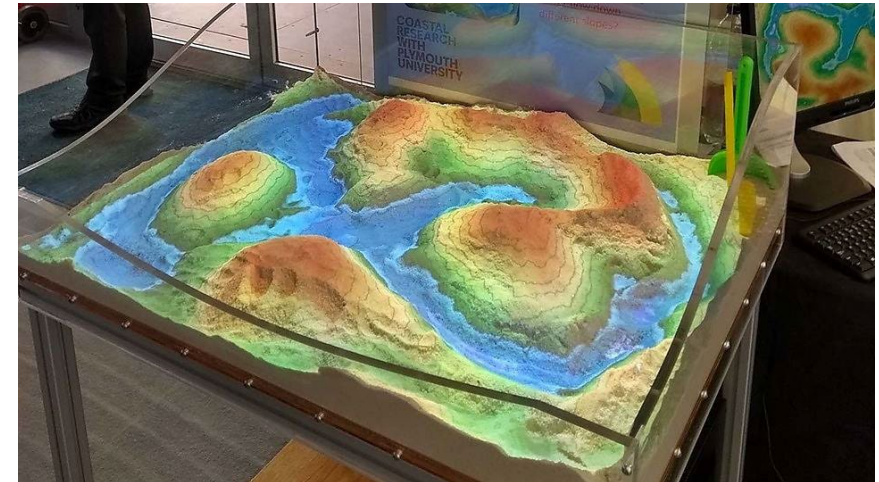
Plus:

- VR sets

Estimated total cost for both labs:

\$450k

Examples of some of the possible equipment



Lab equipment already funded (all by NDOM)

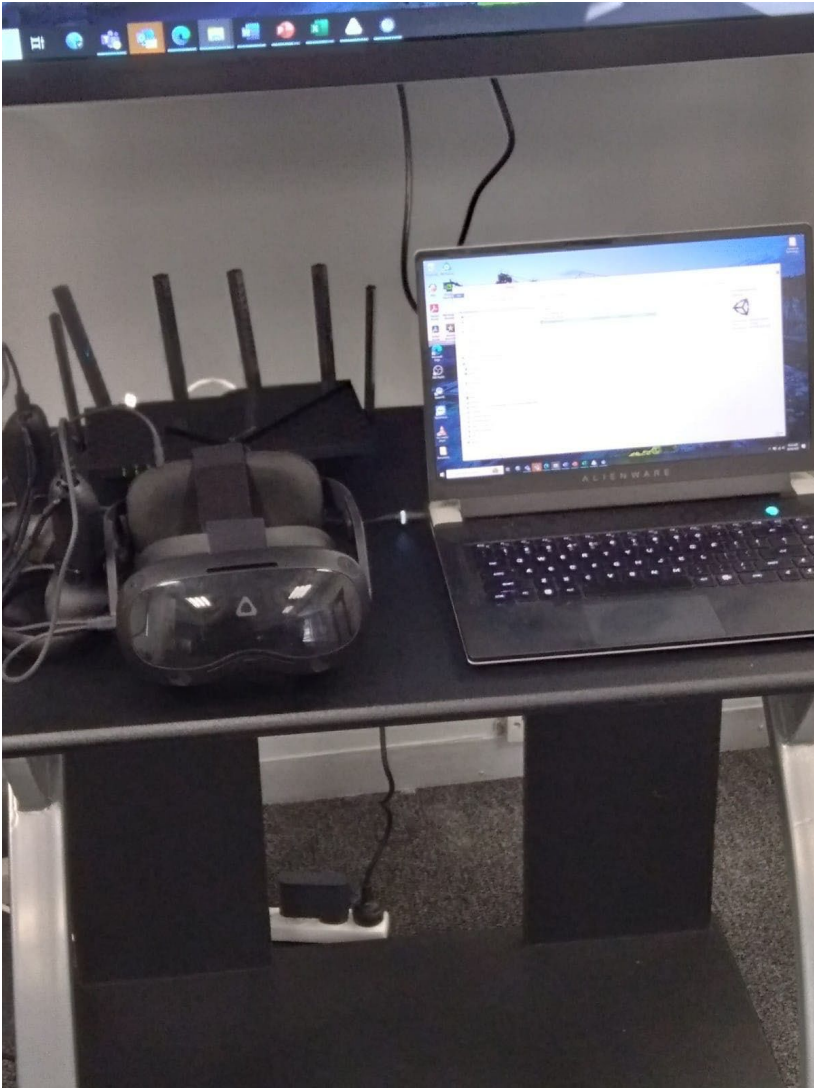
In August 2022, NDOM kindly agreed to fund \$146k for:

- UCS tester.
- Lab scale crushing & grinding equipment.
- 3D topographical & digital sand table.

Lab equipment being requested from NDOM

- 4 individual complete sets of Virtual Reality hardware and software with a Mine Standard Training Module and an Underground Mine Induction and Hazard Hunt Module from Immersive Technologies (\$95,675). These would be used for introducing the public into mining, recruiting and training.
- Agilent 5800 ICP-OES Spectrometer (the same as Mackay School of Mines) to identify and quantify minerals present in rock samples (\$84,305). This would be used for student education in geology and metallurgy and could be used by mine, state and university researchers around the Elko area.

The Immersive Technologies VR sets



Foundation fundraising first flyer sent to NvMA for member distribution in April.

Firm figures now available.



Interested in supporting the future of mining?

Sponsorship opportunities are available now to support the proposed Mining Center of Excellence. Contact the GBC Foundation today to get involved.

Sponsorship Opportunities include:

- Building Naming Rights
- Endowed Teaching Faculty
- Research Lab Space
- Equipment
- Instructional Space
- Shared Common Space
- Scholarships

Contact Us:
Great Basin College Foundation
karrie.barrett@gbcnv.edu
(775) 327-2382



Conclusions

- The next 2 years will be crucial for the MCE.
- Stakeholder input is essential.
- Structures are basically in place now.
- The dual credit HS certificates are on track to start in August 2023, as initially targeted.
- The name recognition of GBC and the MCE needs to be greatly improved. We exhibited for the first time at the SME AGM!

The way forward

We hope:

- That we can help attract more skilled people into STEM (for the mining and other industries), to help rural Nevada and Nevada as a whole.
- That the certificates will be well received by the Schools (and relevant staff and Boards) as it gives students more options.
- To expand these into 2-year associate hybrid degrees in the future.
- To assist our mining industry to attract more people and interest them in further relevant training (upskilling).
- To expand these certificates state-wide in 2024, after introducing them on a limited scale in 2023.
- Offer the certificates and associate degrees to people in the industry.

Any questions, suggestions or comments?

Please also liaise via:

sam.spearing@gbcnv.edu

865-333-1023



Proposal to Nevada Division of Minerals

Commission on Mineral Resources

August 10, 2023

Agenda Item: Request for financial assistance to purchase equipment for the “Nevada Mining Center of Excellence,” a joint venture educational and research facility in Elko, Nevada.

Organization: Great Basin College, in collaboration with the Mackay School of Earth Sciences and Engineering, University of Nevada, Reno (UNR).

Funding Request: GBC-UNR request Commission on Mineral Resources funding to purchase laboratory equipment in support of the educational and community outreach goals of the Nevada Mining Center of Excellence.

Overview: Great Basin College (GBC) serves approximately 4,500 students online and at campuses and centers across 86,500 of Nevada’s 110,000 square miles. The main campus is located in Elko, Nevada, which is 229 miles east of Salt Lake City, Utah; 288 miles west of Reno, Nevada; and 431 miles north of Las Vegas, Nevada, with no metropolitan statistical areas in between. GBC campus centers serve the rural communities of Ely (White Pine County), Pahrump (Nye County) and Winnemucca (Humboldt County); satellite centers are located in approximately 15 communities across rural Nevada.

Most residents within GBC’s service area are associated with natural resources for their livelihoods and lifestyles. On average mining employs 24% of the workforce depending on communities’ proximity to area mines. North-central Nevada is home to three of the world’s top 10 gold mines and seven of the top 10 US sites. In addition, the Thacker Pass Lithium Mine, a lithium clay mining development project in GBC’s service area (Humboldt County) is the largest known lithium deposit in the US and one of the largest in the world. The Rhyolite Ridge lithium-boron project near Tonopah (Esmeralda County) also sits within GBC’s service area and also is expected to play a major role in the state’s lithium loop.

GBC is a vital resource for training skilled people for the mining and advanced manufacturing industries in Nevada; however, more must be done to meet the increasing workforce expansion and development demands of the state’s mining sector, especially in north-central Nevada, where the lion’s share of mining production takes place. The Nevada Mining Center of Excellence (MCE) was created to fill this need.

Nevada Mining Center of Excellence: The MCE has a four-fold mission: (1) Offer dual-credit and other stackable skills certificates in geology, mining and metallurgy that will easily transfer to GBC and UNR, using hybrid-mode online lectures and contact labs, fieldtrips and discussion sessions; (2) Offer hybrid associate degrees with a focus on geology, mining or metallurgy; (3) Offer continuing education courses to upskill current mining industry employees; (4) Be a focal point and resource for the mining industry.

In sum, the MCE will serve as a launch pad for entry-level students to study and ultimately transition to the workplace, and for current staff to update their skills in anticipation of increased responsibilities in the workplace. It also will function as a new STEM-focused community venue that will share mining’s story in innovative and engaging ways.

Over the past 1.5 years, GBC-UNR have completed a gap analysis; gathered feedback from state, industry and higher education leaders, and formed an Industry Advisory Council; hired additional faculty members at both GBC (including an Executive Director) and UNR; acquired the building where the MCE will be housed on the GBC campus; finalized curricula for the center’s first skills certificate offerings; initiated building

improvements with UNR facilities staff; received Nevada System of Higher Education curricula approval; and, signed an MOU between GBC and UNR. Instructional training at the center will launch on a trial basis in August 2023.

Project Summary: In August 2022, the Nevada Division of Minerals kindly granted \$146,000 to the MCE to purchase an Unconfirmed Compressive Strength (UCS) tester; lab scale crushing and grinding equipment; and, a 3D topographical and digital sand table. The items will be in place at the MCE by August 2023.

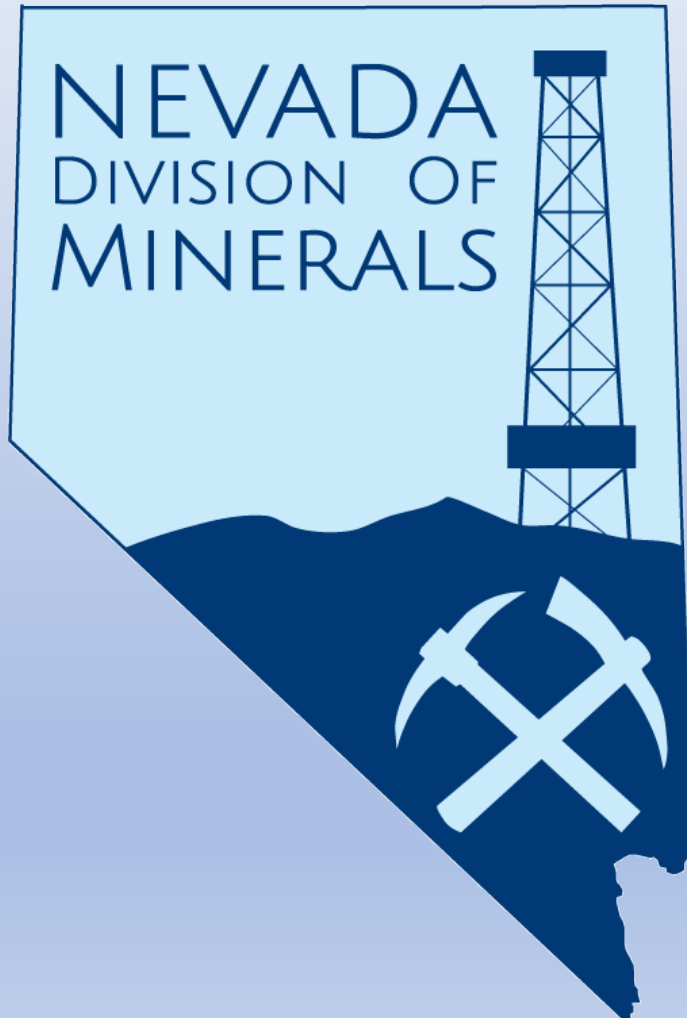
The current GBC-UNR request is for additional laboratory equipment to provide hands-on educational and training opportunities for high school and college students, current mining professionals, and the community during STEM-related outreach, as follows:

- **Immersive Technologies Virtual Reality Training Package with Mining Emphasis - \$95,675.** This package includes four high-powered and portable virtual reality headsets and hand controllers to provide students with a wide range of training and assessment scenarios in 3D environments, including underground mining. The package also includes the ability to test students' safety skills. Immersive Technologies will provide on-site training for up to four staff members.
- **Agilent Technologies Spectrometer Package - \$84,305.** Identifying which minerals are present in ore samples, and in what quantity, is critical to mineral analysis. This PC-based dual view spectroscopy package will help students learn how to measure ore samples quickly and accurately, while spotting sample preparation mistakes and flagging outlier results. A recirculating chiller will enable students to monitor and set water-cooling parameters, thereby avoiding unnecessary failures, while an automatic sampler will teach students how to stay productive with a high sample load. The package includes a humidifier and various other necessary supplies; an Agilent field service engineer will install and familiarize staff with the equipment over two days of training. This is the same equipment that UNR's metallurgy program uses.

Requested Sponsorship: \$179,980

IV.C Review of the Division of Minerals recent education and outreach

Education and Outreach FY 2023



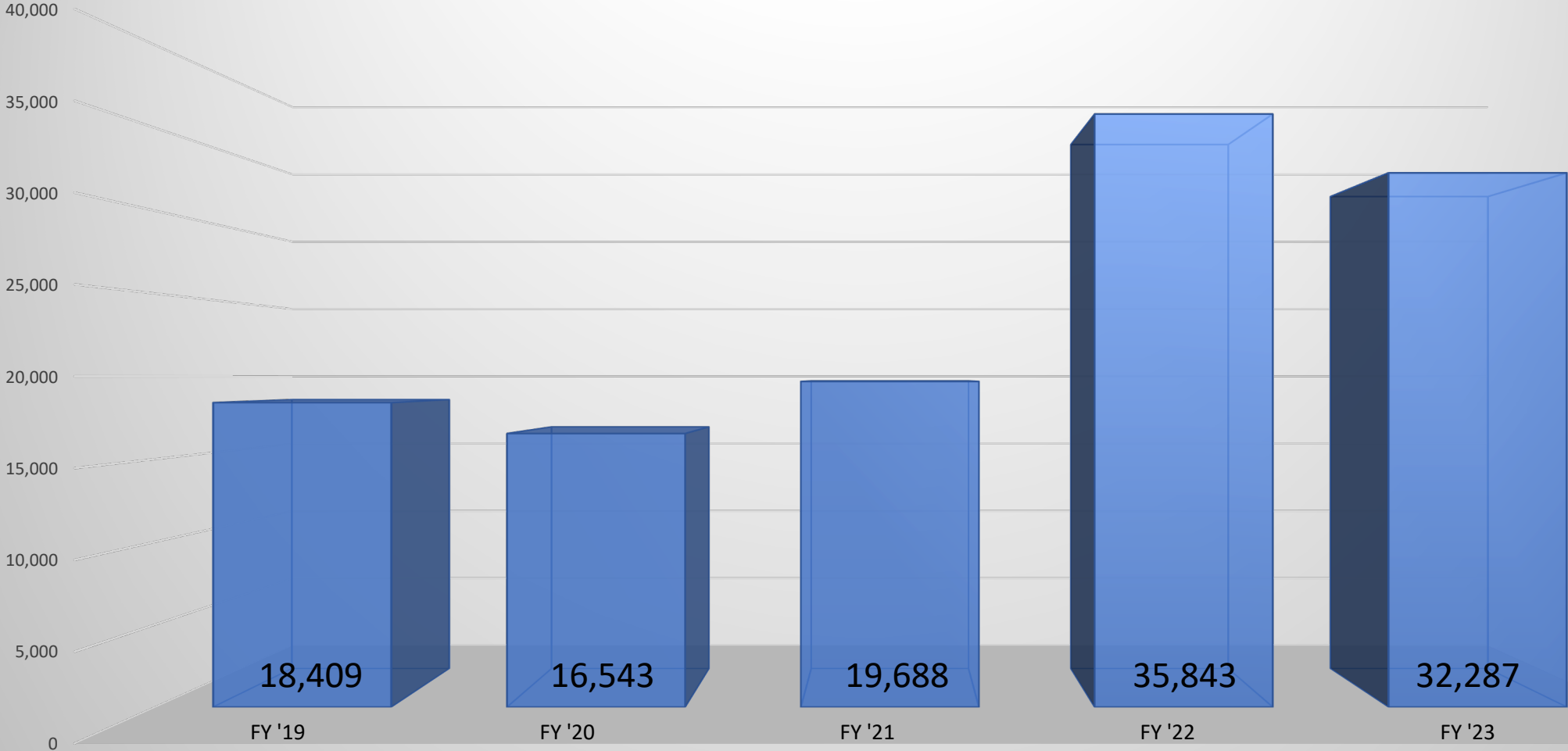
Carol A Shelton,
Education and Outreach Specialist
Southern Nevada Office

Nevada Commission on Mineral Resources
10 August 2023

Types of Presentations

- Boy Scouts/Eagle Scouts
- Science Fair Judge
- Public Event
- Career Fair
- Classroom Presentations includes Virtual
- Civic, Groups, & Clubs
- News/Media
- Web-Hosted Videos

Education & Outreach # of Attendees By FY



Total Number of Presentations

In Fiscal Year 2022

- Northern Office: 101
- Southern Office: 175

In Fiscal Year 2023

- Northern Office: 77
- Southern Office: 225



Types of Presentations

Fiscal Year 2022

- Eagle Scout: 1
- Science Fair: 1
- Public Event: 3
- Career Fair: 35
- Classroom Presentation: 224
- Civic: 77
- Boy Scouts of America: 3
- News/Media: 11

Fiscal Year 2023

- Eagle Scout: 0
- Science Fair: 0
- Public Event: 11
- Career Fair: 162
- Classroom Presentation: 104
- Civic: 46
- Boy Scouts of America: 1
- News/Media: 10

Topics of Presentations

- Minerals
- Geoscience
- Mining in Nevada
- Minerals in Nevada
- Critical Minerals
- Abandoned Mine Lands



Science & Engineering

- Chemical Engineer
- Environmental Scientist
- Geologist
- Mechanical Engineer
- Metallurgical Engineer
- Process Engineer
- Biologist
- Safety and Health
- Physical Scientist
- Mining Engineer
- Industrial Hygienist
- Hydrologist

Operators & Technicians

- Heavy Equipment
 - Haul Truck
 - Bulldozer
 - Shovel
 - Excavator
- Process Operators
 - Control Room
- Millwright
- Driller
- Crusher Operator

Business

- Financial Analysts
- Accountant
- Human Resources
- Worker's Compensation
- Payroll
- Information Technology
- Security

Skilled Trades

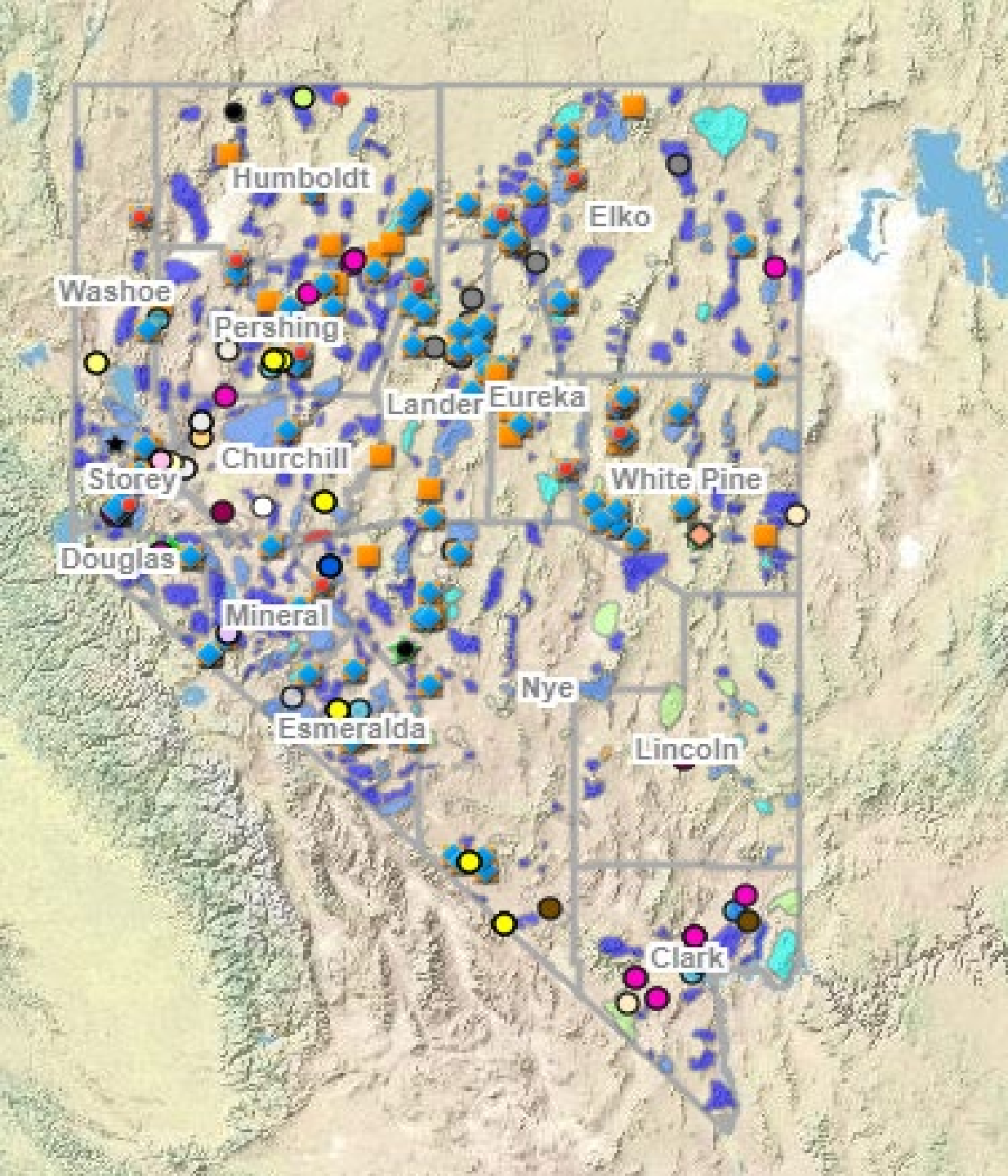
- Electrician
- Diesel Mechanic
- Small Vehicle Mechanic
- Welder
- Machinist
- Metal Fabricator
- HVAC
- Blaster
- Crane Operator

Other

- Lawyer
 - Business
 - Environmental
 - Employment
- Quality Control
- Maintenance
- Material Handler
- Lab Technician
- Registered Nurse/Physicians Assistant
- Logistics

Critical Minerals in Nevada

Nevada contains known occurrences or deposits of 33 of the 50 minerals identified as "Critical Minerals" by the U.S. Department of the Interior in February 2022. These Minerals are deemed "vital to the Nation's security and economic prosperity".







- ▶ Before leaving for Ford's theater on April 14, 1865, President Abraham Lincoln said in part,
 - ▶ “I have very large ideas of the mineral wealth of our Nation.”
 - ▶ “Tell the miners from me, that I shall promote their interests to the utmost of my ability; because their prosperity is the prosperity of the Nation, and we shall prove in a few years that we are indeed the treasury of the world.”



Dear Carol Shelton thank you
for coming to Cambeiro to
tell us all about your career
I learned to stay out of mines
that are abandoned you can
save someone's life I
really like what you said
about mines and to stay out. 😊

Sincerely Axel Fifth Grade,

Thank You

Dear Carol Shelton, thank you for coming to Cambeiro to tell us about your career. I learned to stay out of mines that are abandoned. You can save someone's life. I really like what you said about mines and to stay out. 😊
Sincerely, Axel, Fifth Grade



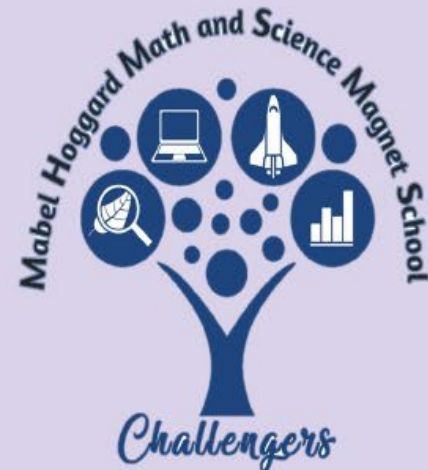
Thank you so much
for visiting us during
Career Week!

Ms. Shelton,

Thank you so much for talking to my first graders about mining and doing well in school. Your presentation was engaging and your preparedness was much appreciated. I love how you included each student and extended patience and grace to farfetched questions or comments. Lol You are the best! If you ever want to come teach elementary school, we would love you have you. You are a natural. Thanks again!

Xoxo,

Miss Taylor

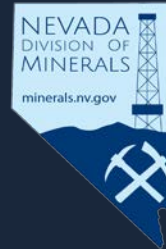


FY 23 Education and Outreach Wrap Up

Nevada Commission on Mineral Resources Meeting

August 10, 2023 @ 9:00 AM

Nevada Legislative Building, 401 S. Carson St., Room
3138, Carson City, NV



Garrett Wake
Southern Nevada Programs Manager
Nevada Division of Minerals
702-486-4344
gwake@minerals.nv.gov

Presentation Outline

1. Mineral Education Workshop Attendance
2. 2023 Southern Nevada Workshop Surveys
3. 2023 Northern Nevada Workshop Surveys
4. Mining for a STEM Education (virtual) Workshop Surveys
5. All About Mining: Mining for a STEM Education Capstone Lesson Plan Examples

1. Mineral Education Workshop Attendance

Northern and Southern Workshop Attendance

Note: "Blank" = Not Held; "0" - No Numbers Available

Cancelled Coronavirus


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Southern Nevada

Northern Nevada

200
175
150
125
100
75
50
25
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2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023

 So Atnd	138	181	98	92	127	124	135	110	102	92	64	90	78	79	102	116	120	135	127	119	0	0	68	82
 No Atnd	154	106	76	78	71	54	86	63	87	65	70	98	102	79	78	68	78	54	80	63	0	35	37	38

2. 2023 Southern Nevada Mineral Education Workshop Survey Results

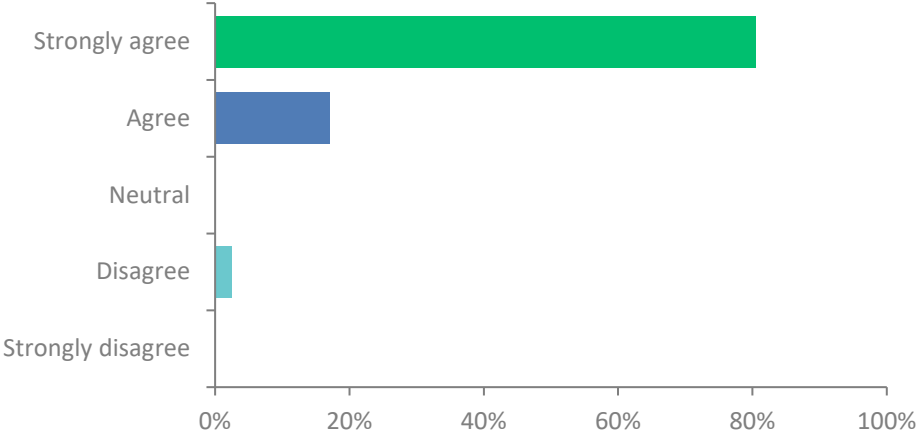
March 14-15, 2023

Faith Lutheran Middle and High School
Las Vegas, Nevada

Enrolled: 106
Attended: 82

Q1: Pre-workshop information and registration is accessible and convenient.

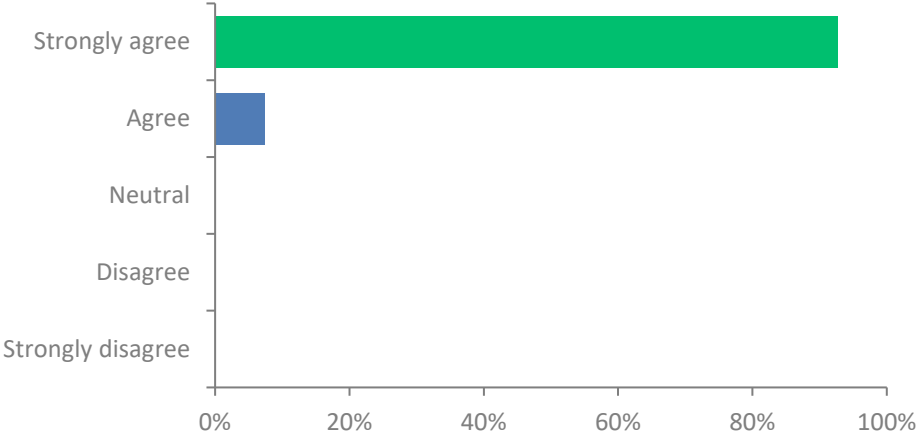
Answered: 41 Skipped: 1



ANSWER CHOICES	RESPONSES	
Strongly agree	80.49%	33
Agree	17.07%	7
Neutral	0%	0
Disagree	2.44%	1
Strongly disagree	0%	0
TOTAL		41

Q2: The facilities are comfortable and conducive to learning.

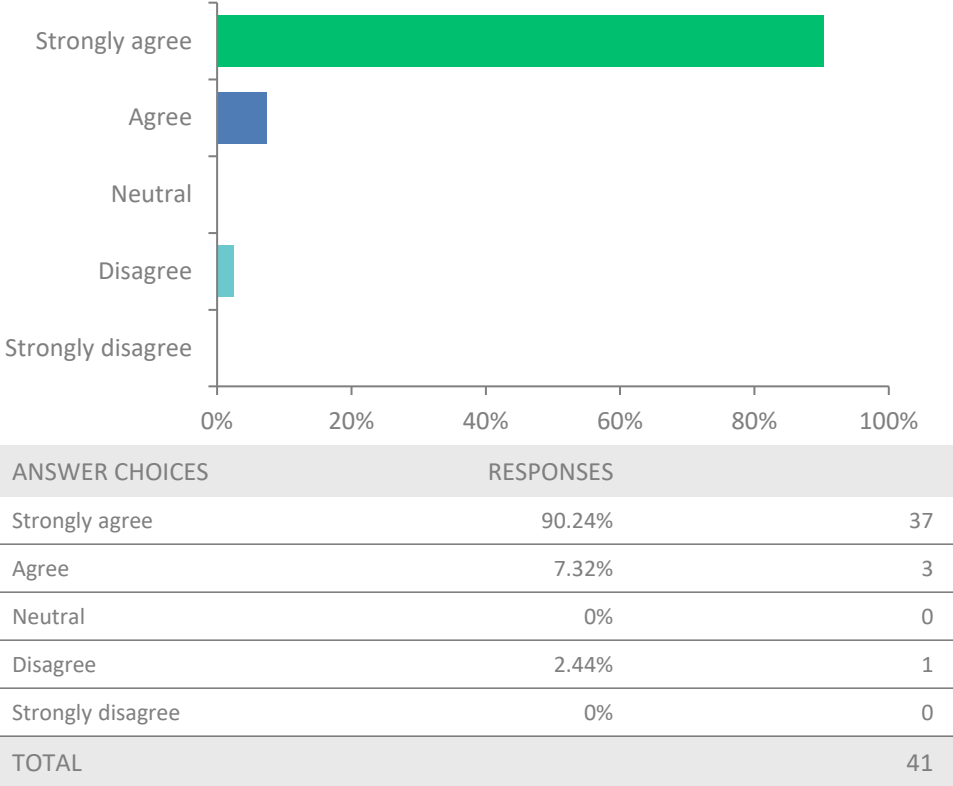
Answered: 41 Skipped: 1



ANSWER CHOICES	RESPONSES	
Strongly agree	92.68%	38
Agree	7.32%	3
Neutral	0%	0
Disagree	0%	0
Strongly disagree	0%	0
TOTAL		41

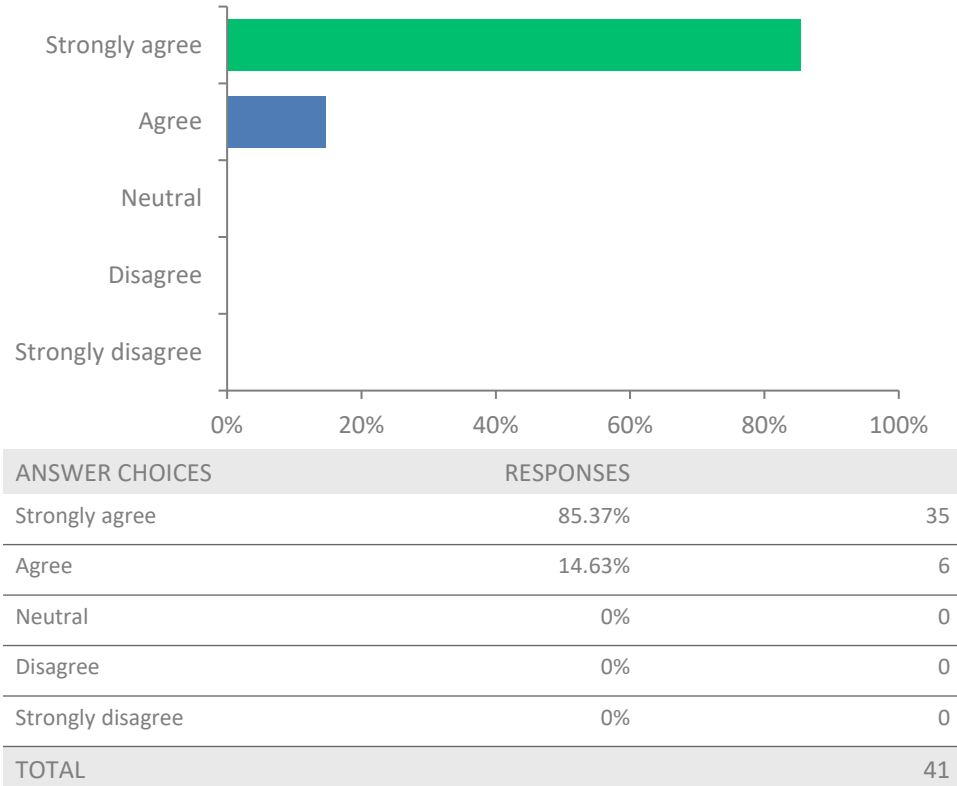
Q3: The workshop schedule is satisfactory (e.g., session and break lengths).

Answered: 41 Skipped: 1



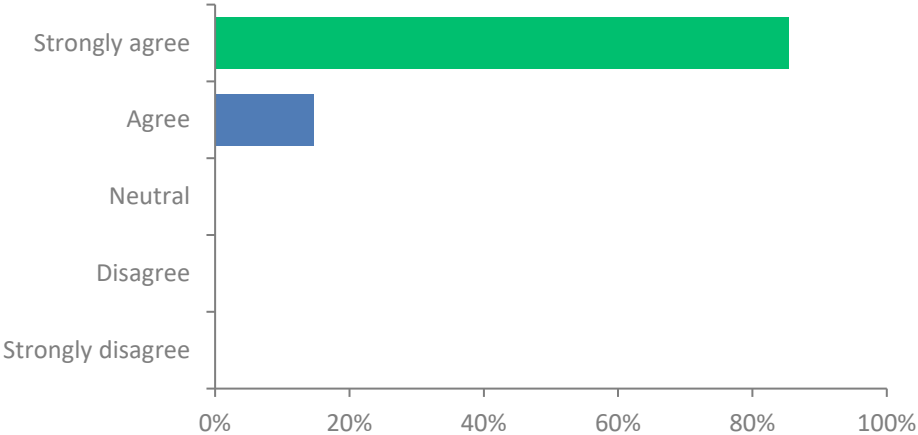
Q4: I feel that I have received important content from this workshop that I can use in my classroom.

Answered: 41 Skipped: 1



Q5: This workshop has been a great experience overall.

Answered: 41 Skipped: 1



ANSWER CHOICES	RESPONSES	
Strongly agree	85.37%	35
Agree	14.63%	6
Neutral	0%	0
Disagree	0%	0
Strongly disagree	0%	0
TOTAL		41

3. 2023 Northern Nevada Mineral Education Workshop Survey Results

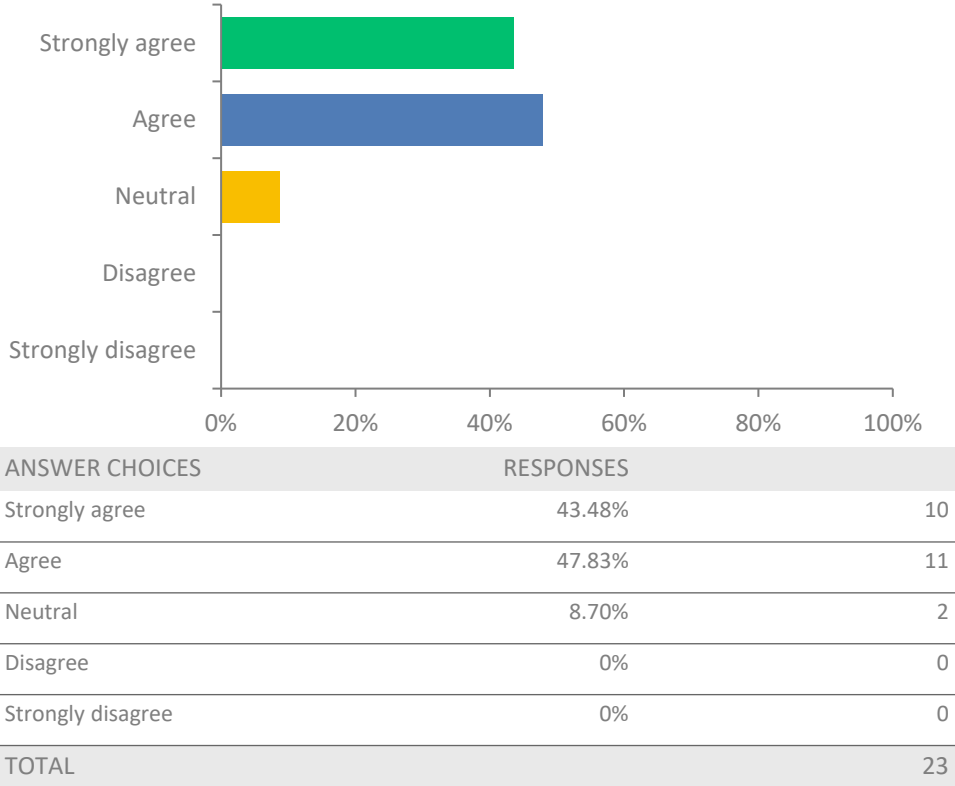
June 21-22, 2023

Lowry High School
Winnemucca, Nevada

Enrolled: 55
Attended: 32

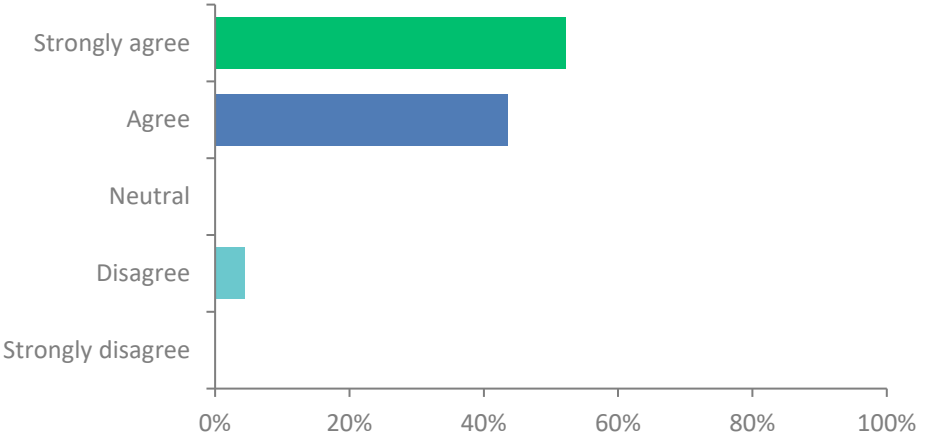
Q1: Pre-workshop information and registration is accessible and convenient.

Answered: 23 Skipped: 0



Q2: The facilities are comfortable and conducive to learning.

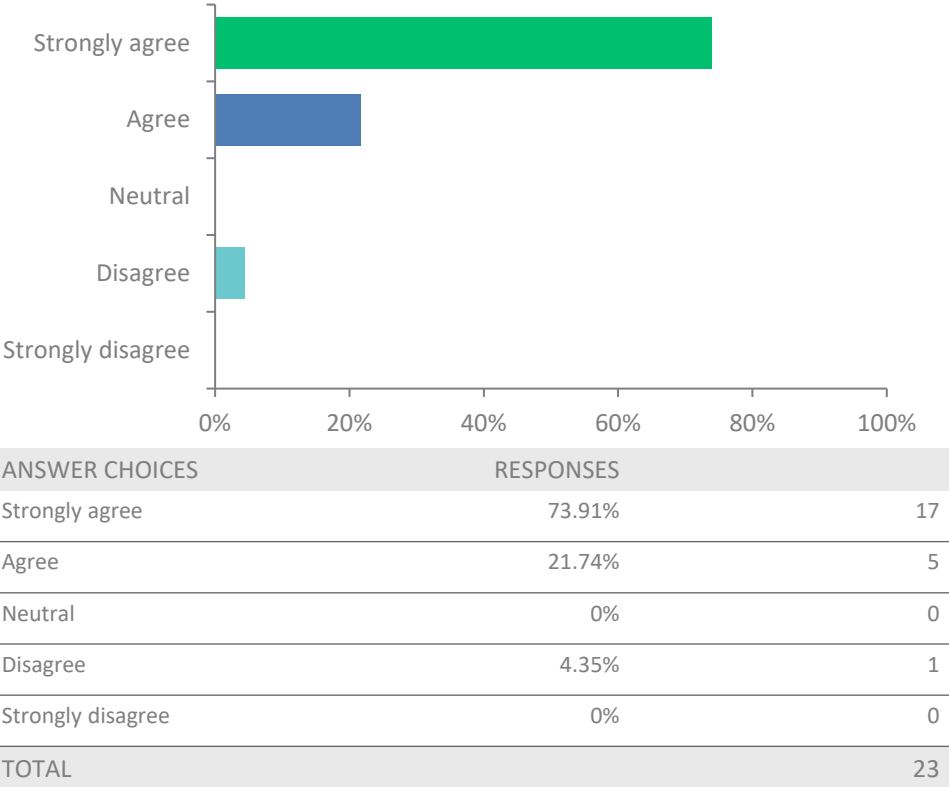
Answered: 23 Skipped: 0



ANSWER CHOICES	RESPONSES	
Strongly agree	52.17%	12
Agree	43.48%	10
Neutral	0%	0
Disagree	4.35%	1
Strongly disagree	0%	0
TOTAL		23

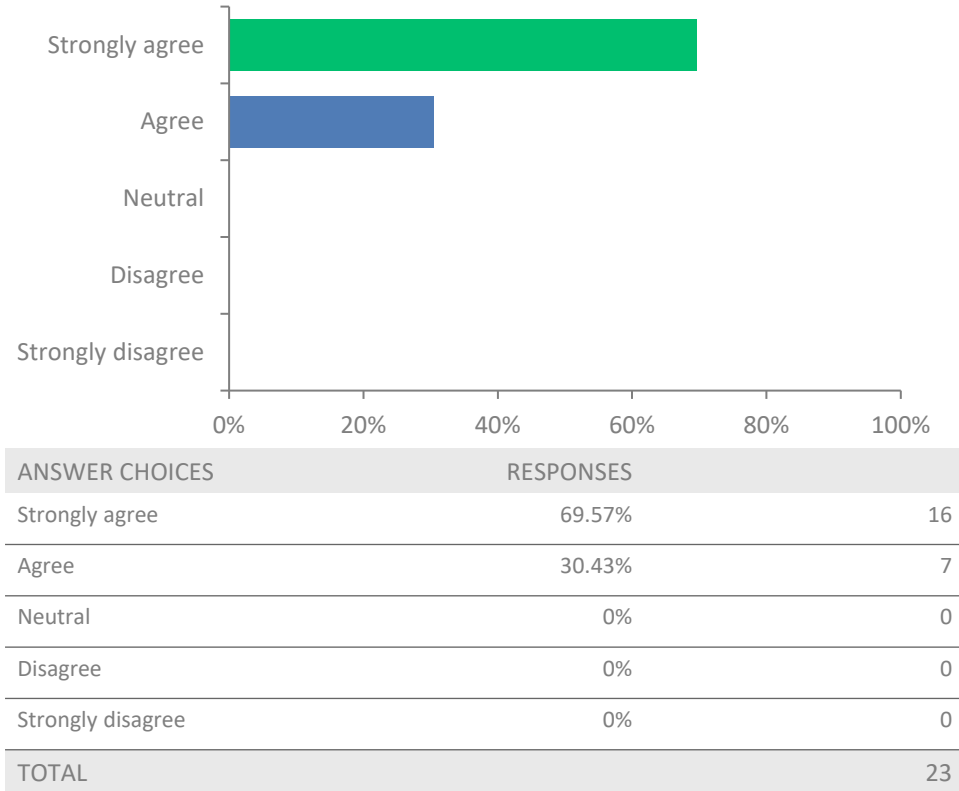
Q3: The workshop schedule is satisfactory (e.g., session and break lengths).

Answered: 23 Skipped: 0



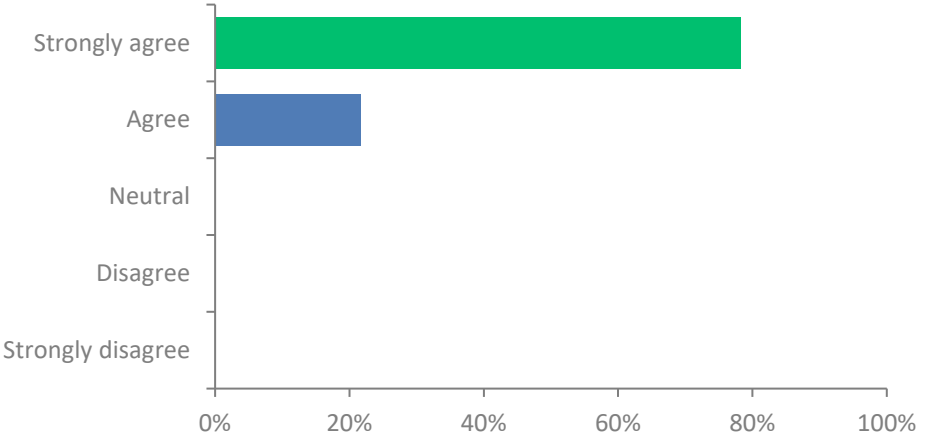
Q4: I feel that I have received important content from this workshop that I can use in my classroom.

Answered: 23 Skipped: 0



Q5: This workshop has been a great experience overall.

Answered: 23 Skipped: 0



ANSWER CHOICES	RESPONSES
Strongly agree	78.26% 18
Agree	21.74% 5
Neutral	0% 0
Disagree	0% 0
Strongly disagree	0% 0
TOTAL	23

4. FY 23-24 - All About Mining: Mining for a STEM Education Survey Results

Virtually on CCSD Canvas and
allaboutmining.com



How has
mining
changed with
technology?



All About Mining Teacher Workshops and Field Trips!

Two-day Workshops in Golden and Leadville, and Mining Across Colorado field trips. Workshops and field trips provide teachers with hands-on mining-related tools and lessons in the earth sciences, history, math, technology, and engineering.

[LEARN MORE](#)



SESSIONS, LABS, AND FIELD TRIPS

Workshops will be offered at the Colorado School of Mines in Golden (June 5-6) and at the National Mining Hall of Fame and Museum in Leadville (June 8-9). Plus an exciting 4-day field trip tour "Mining Across Colorado" (June 19-22).



CLASSROOM SESSIONS

Interactive, hands-on sessions on the importance of a responsible, sustainable mining industry in our everyday lives which is critical for a greener economy. Receive lesson plans that are age-specific, standards-based, and ready to use!



EXCITING FIELD TRIPS

During the 2-Day Workshops, we'll visit several essential mining operations near Golden and Leadville. On our longer Mining Across Colorado field trips we'll visit many more active mine sites in our beautiful state!

FY 23-24 MSE Virtual Course Enrollment

Session	Enrolled	Awarded Credit
2022 Summer	40	28 (70%)
2022 Fall	30	29 (97%)
2023 Spring	33	30 (91%)
*2023 Fall	40	TBD

FY 23-24 MSE Virtual Course Survey

Q1: Course was organized and understandable.

Session	S. Agree	Agree	Neutral	Disagree	S. Disagree
2022 Summer	24 (71%)	9 (26%)	1 (3%)	0	0
2022 Fall	27 (71%)	11 (29%)	0	0	0
2023 Spring	32 (82%)	7 (18%)	0	0	0

99% average Strongly Agree or Agree

FY 23-24 MSE Virtual Course Survey

Q2: Course was balanced between content videos, activities, and interaction on Canvas.

Session	S. Agree	Agree	Neutral	Disagree	S. Disagree
2022 Summer	21 (62%)	10 (29%)	3 (9%)	0	0
2022 Fall	23 (60%)	12 (32%)	2 (5%)	1 (~3%)	0
2023 Spring	29 (74%)	10 (26%)	0	0	0

95% average Strongly Agree or Agree

FY 23-24 MSE Virtual Course Survey

Q3: Course content and lesson is adaptable for use in the classroom (i.e. reasonable cost, access to materials, technical level, time allowance, etc.).

Session	S. Agree	Agree	Neutral	Disagree	S. Disagree
2022 Summer	20 (59%)	14 (41%)	0	0	0
2022 Fall	22 (59%)	14 (38%)	0	1 (3%)	0
2023 Spring	25 (64%)	12 (31%)	2 (5%)	0	0

97% average Strongly Agree or Agree

FY 23-24 MSE Virtual Course Survey

Q4: Would you use this lesson in the classroom? (i.e., standards specific, materials, grade level, etc.)

Session	S. Agree	Agree	Neutral	Disagree	S. Disagree
2022 Summer	21 (62%)	12 (35%)	1 (3%)	0	0
2022 Fall	21 (56%)	15 (39%)	0	2 (5%)	0
2023 Spring	26 (67%)	11 (28%)	2 (5%)	0	0

96% average Strongly Agree or Agree

FY 23-24 MSE Virtual Course Survey

Q5: What did you think was the best part of this course? (2023 Spring)

- I have such a deeper understanding of the impact of mining. The videos provided multiple opportunities to learn and build that concept of "if it isn't grown, it's mined."
- I loved learning about all the different parts of mining.
- I like the self-paced and fast grading. It encouraged me to keep going!
- I really enjoyed the information that was presented in the videos. Lots of different aspects to mining that I never knew about.
- The content was very thorough and covered a wide range of topics within earth science/geology. There were lessons and videos that would be appropriate for my elementary students.
- I loved all of the videos. The meeting at the end of the course was very helpful too.
- In my opinion, the best part of the course was two-fold. I liked learning about the processes required for mining and I liked the information about the different types of mines (videos, examples and video tours of different types of mines, safety protocols, etc.).
- I really enjoyed learning about mining! It is something I didn't know much about and I am happy I am more knowledgeable now! Thank you!

FY 23-24 MSE Virtual Course Survey

Q6: What would you change in this class? (2023 Spring)

- I feel like the lesson plan portion was a little intimidating.
- This course takes more than 18 hours to complete, especially if we could include the beginning and end of course required zoom/google sessions.
- Some of the videos were a little technical and it was hard to follow, let alone remember, some of the information presented. I would shorten or re-do some of the technical videos (like the chemical compounds for example).
- More kid friendly resources we can take back to the classroom.
- It was much longer than the 18 hours. Not including the extra videos, (I did not count them on my time sheet.) it was 20 hours. Plus the lesson plan...
- I would add 2-3 more quizzes or a couple Nearpod activities to keep engagement up.

FY 23-24 MSE Virtual Course Survey

Q7: General comments on the course. (2023 Spring)

- I loved this course. It was informational and entertaining. I am excited to bring this industry into the elementary classroom. I would recommend it to all of my colleagues.
- Great course!
- I loved it! Thanks!
- The instructor was very quick to respond and knowledgeable.
- Really learned a lot of information about mining.
- I enjoyed most of what I learned and I liked being able to go at my own pace. Instructor always answered my questions and inquiries.
- I did enjoy the class. I didn't realize how important mining was in my everyday life and how it is EVERYWHERE! I have recommended this class to others to take for the fall session.

5. FY 23-24 - All About Mining: Mining for a STEM Education Capstone Lesson Plan

Lesson plan criteria:

1.Header: Write your name, the title of your lesson, date, grade level(s), curriculum (science, art, math, etc.), and an estimate of the time required for this lesson.

2.Abstract (Concept/Overview): Provide a short written abstract or overview of the lesson, including the specific type of activity or activities included in the lesson, i.e., timeline, mapping, technology, etc. Include reference(s) to what part of All About Mining this activity relates. This should be approximately one paragraph in length.

3.Standard(s) Addressed: List the standards that this lesson plan will address. Identify for which curriculum area they are taken and whether they are from state or local school district standards.

4.Specific Objectives: After completing this lesson, students will be able to (SWBAT)... [Identify skills and knowledge that students will have acquired after completing the lesson].

5.New vocabulary words: Provide an appropriate number of new vocabulary words with their respective written definitions. These words may not be new to you but would be to your students. You will experience around 400 new words in this internet course. Understanding industry-specific vocabulary is essential to understanding some of the concepts presented within this course.

6.Suggested Activities: List the activities in which the students will participate. Each activity should help reinforce knowledge learned in your related lesson. Include specific step-by-step instructions for the teacher implementing this lesson.

7.Required Materials: Provide references, hardware, software, presentations, worksheets, forms, or handouts that will be utilized by the students.

8.Assessments and/or Evaluation: Provide a list of specific examples of how the content and skills in the lesson will be assessed or evaluated.

Format: Provide us with an electronic copy of your lesson plan. Your electronic copy needs to be in Microsoft Word. Insert any visuals that you feel are paramount to your lesson plan. We will reproduce the lesson plans for all participants taking this class. You will receive an email after the course containing a file of all the lesson plans created in this course.

How Does Mining Help the Community?

1st grade

6/20/2022

ELA and Social Studies: 60 minutes

Objectives:

I can learn what mines are.

I can discover the things I have because of mines.

I can show I know what comes from mines.

Procedures:

- Intro- Show picture of a smart phone and ask how is this made. Help students by prompting them.
 - Where does it come from?
 - Who made it?
 - How is it made?
 - Tools needed?
 - Where does the material come from?
- Explain how phones are not just made and developed by scientist and engineers but miners.
 - Show and explain vocabulary
- [Show video what makes up your smart phone?](#)
- What else do you think we have that comes from mines?
 - Create anchor chart
- Read book: What's it like to Live here? Mining Town by Katie Marsico
- Why is mining important?
 - Add to anchor cart

- Assignment: Students will be given a large piece of paper and will draw two things with labels that we have because of mines.
 - Examples: House labeling the wood, lights, and floors
 - Computer
 - Tv
 - fridge

Standards:

RI.1.4 Ask and answer questions to help determine or clarify the meaning of words and phrases in a text.

SS.1.20 Describe how the environment impacts how we live and the work we do.

Materials:

- Paper
- Pencils
- Crayons
- Book: What's it like to Live here? Mining Town by Katie Marsico
- Slides with vocabualry

Vocabulary:

- Mining- the act of finding the metals and minerals in mines.
- Ore- a rock the contains metal
- Minerals- doild substances found in the earth that do not come from an animal or plant.
- Mine- hole where you find important materials.

Assessment: Formative

Students will be graded on if they were able to correctly identify two objects we have because of mines.

Students will continue to build their understanding of community helpers in the current unit of How We Organize Ourselves.

- Header:** Erin Strait, Eureka! Mining for Minerals, 5/14/2023, 7th grade.science, one 50 minute period.
- Abstract (Concept/Overview):** This activity will help students determine where minerals exist in Nevada. They will understand where deposits can be found, and what resources are mined there. This relates to the following portions of All About Mining:
- Standard(s) Addressed:**

NGSS Standards:

MS-ESS3-1: Construct a scientific explanation based on evidence for how the uneven distributions of Earth's mineral, energy, and groundwater resources are the result of past and current geoscience processes.

- Specific Objectives:** After completing this lesson, students will be able to (SWBAT)... identify profitable areas of mining in Nevada and predict why minerals are found in that area
- New vocabulary words:**
 - Mineral:**
 - Ore:** A naturally occurring solid material from which a metal or valuable mineral can be profitably extracted.
 - Host Rock:** The rock surrounding the ore deposit or the type of rock where mineralization occurs
 - Open Pit Mine:**
 - Topography:**
- Suggested Activities:**
 - Students should predict what types of commodities are mined in Nevada and what portions of Nevada have active mines in them. Discuss.
 - Students should navigate to the interactive "Nevada Mineral Explorer" map found at : <https://nbmg.maps.arcgis.com/apps/webappviewer/index.html?id=e279fb2d805945b59dea1cf661f5b4e6>
 - Students should analyze the key and make connections about what type of materials are mined most in Nevada.
 - Students should then select 10 current mining locations and Nevada and describe them. For example, are they near water? A mountain? A flat area? Another mine? Etc
 - Students should try to make connections between the location of mines and the topography of the land. Students should notice that many mines are close together, and many mines are near higher elevation levels.
 - Students should then predict why they think mines are not evenly distributed across Nevada. In a later lesson, students will learn that the Earth's dynamic processes lead to mineral deposits.

Preview Questions:

How many mines do you think are currently active in Nevada?

What kind of materials do you think they mine?

Where do you think the mines are located?

Mine Location	Commodity Mined	County	Type of Mine	General Location	Observations when you ZOOM IN
Ez: Amargosa Clay Operations	Clay	Nye	Open Pit	Southwest Nevada; near the border of CA	The area is flat and there are a bunch of dots on the map

After using the interactive map, what were you surprised by?

Generally speaking, where do mines occur? (Near water, flat land, elevated land, near other mines, etc.)

Why do you think the mines in Nevada are not evenly distributed?


Camme Chown
Impact of Mining
April 21, 2023
4th Grade-Science and Writing
40 minutes

Concept:

This lesson will allow students to address the question "How does mining affect our day-to-day life?" through a written response. Students will understand that almost every single item we use contains minerals and metals from a mine somewhere around the world. Minerals and metals are in cell phones and transportation, paints and jewelry, buildings, and even dog and cat food. In fact, everything that is not grown comes from a mine! Students will be able to support their discovery with a written response, citing evidence from 2 different video resources.

Structure	Purpose/Implementation	Resources
Standards	RI.4.3 Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text. W.4.2 Write informative/explanatory texts to examine a topic and convey ideas and information clearly. 4-ESS3-2 Generate and compare multiple solutions to reduce the impacts of natural Earth processes on humans.	Printed objectives
Student Friendly Objectives	I can explain how mining impacts our daily life. I can explain events, procedures, ideas, or concepts in an informational text by describing what happened, why it happened, and how it happened. I can write an informative text that conveys how mining impacts our daily life.	Sentence strips with student-friendly objective
Vocabulary	Minerals: substances that do not come from an animal or a plant. It comes from the earth. Salt, gravel, gold, and silver are a few examples Natural Resources: materials found in nature that are important for living or making money. Environment: everything within the natural world, including animals, plants, the soil, and bodies of water Mining: the process of removing useful materials from the earth	
Introduction 5 minutes	TW display the quote "If it can't be grown, it has to be mined." Display Google slides of various everyday items and have students sort items under the category of grown or mined. GWW will discuss if those items have mined items in them.	Google Slides with pictures to sort!
Focus of Instruction 20 minutes	Watch Everyday Mining on Discovery Education Students will take notes using the note catcher. TW model if needed Watch Is Silver Calling to you? https://www.youtube.com/watch?v=... Students will take notes using the note catcher. GWW revisit the Google Slide to see if changes should be made	Note Catcher
Small Group/Independent Work 15 minutes	Using the RACES strategy, students will use information gathered on their note catcher to write a response for the following statement: How does mining affect my daily life?	RACES poster Paper, pencils, Chromebooks

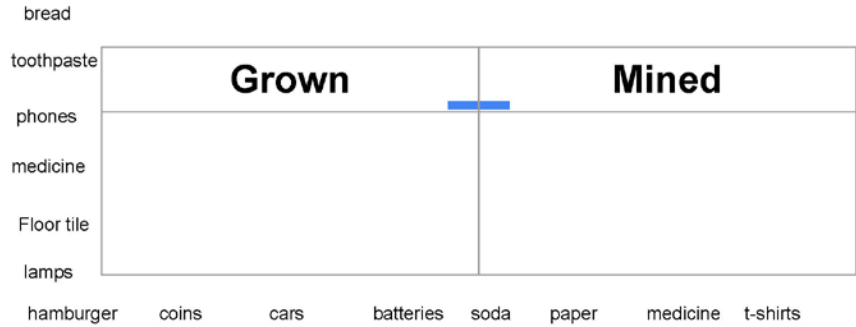
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40 minutes

		
Closure 5 minutes	TW review how the class completed the objective: "I can explain how mining impacts my daily life."	
Assessment	Formative: Note catcher Summative: Written Response Summative: Completed quiz on Active Learn: Mining and Branching in Nevada	Chromebooks RACES Rubric
Additional Literature	What Was the Gold Rush? Terror at the Ghost Town Mine Gold Fever The Secret of the Silver Mines by Shane Peacock	

Note Catcher for the Effects of Mining on our Daily Life

Date:	Name:
List 3 ways mining affects our daily life	<p>Everyday Mining:</p> <ol style="list-style-type: none"> 1. 2. 3.
List 3 ways mining affects our daily life	<p>Is Mining Critical in our Lives?:</p> <ol style="list-style-type: none"> 1. 2. 3.

“If it can’t be grown, it has to be mined”



Questions

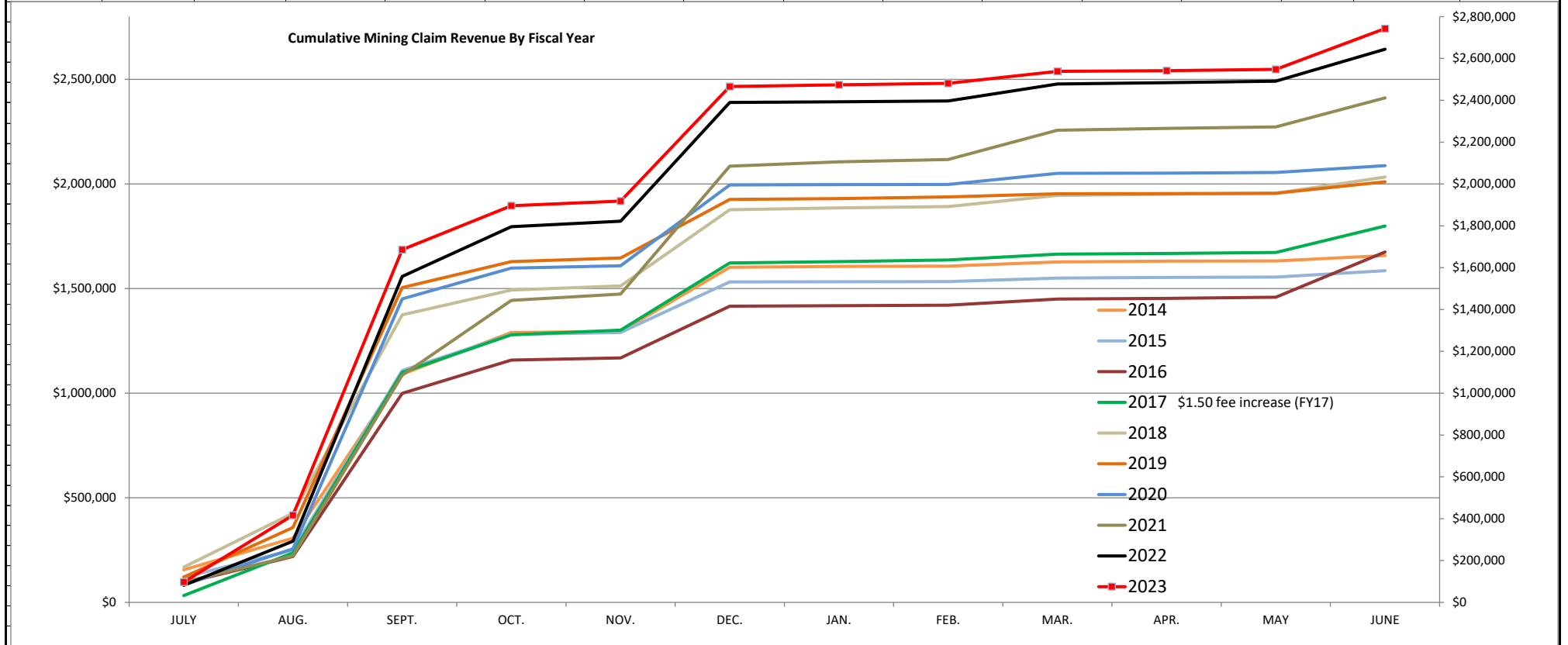
V. Old Business

**V.A Review of Division of Minerals federal
AML partner agreements- Documents will
be provided at the meeting**

V.B Financial Update FY23 to FY25

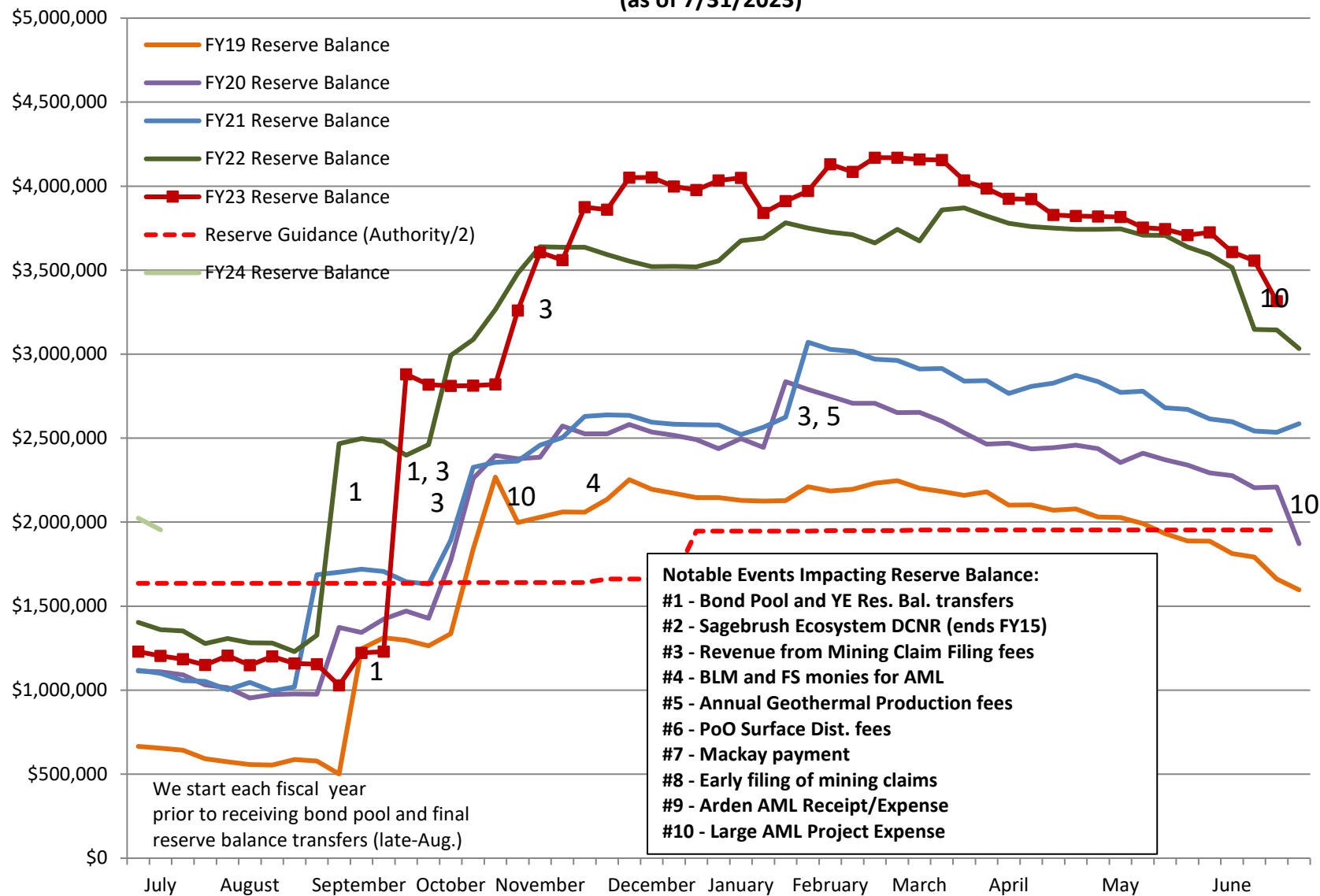
Fiscal Year Cumulative Mining Claim Revenue By Month

Fiscal Year	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	\$ YOY	Total Claim Filings
2023	\$97,420	\$416,620	\$1,686,460	\$1,895,930	\$1,917,950	\$2,465,650	\$2,474,100	\$2,481,420	\$2,538,130	\$2,541,440	\$2,547,530	\$2,742,890	3.7%	274,289
2022	\$81,700	\$292,160	\$1,557,970	\$1,796,170	\$1,821,730	\$2,389,380	\$2,392,810	\$2,396,650	\$2,477,620	\$2,483,930	\$2,491,520	\$2,644,120	9.6%	264,412
2021	\$97,190	\$222,510	\$1,085,820	\$1,443,520	\$1,474,160	\$2,085,310	\$2,105,650	\$2,116,960	\$2,257,030	\$2,265,460	\$2,273,190	\$2,411,530	15.5%	241,153
2020	\$83,720	\$256,070	\$1,450,980	\$1,597,760	\$1,609,370	\$1,995,430	\$1,997,180	\$1,997,950	\$2,050,880	\$2,051,660	\$2,054,840	\$2,087,470	3.7%	208,747
2019	\$121,080	\$357,900	\$1,504,660	\$1,628,710	\$1,646,750	\$1,926,020	\$1,930,460	\$1,937,910	\$1,953,500	\$1,954,140	\$1,955,820	\$2,010,510	-1.1%	201,051
2018	\$168,630	\$425,870	\$1,374,840	\$1,493,090	\$1,512,540	\$1,876,580	\$1,885,390	\$1,892,210	\$1,945,520	\$1,951,080	\$1,955,670	\$2,032,980	13.0%	203,298
2017	\$32,650	\$236,939	\$1,099,584	\$1,278,775	\$1,301,335	\$1,622,635	\$1,629,225	\$1,636,885	\$1,664,685	\$1,668,165	\$1,672,765	\$1,799,065	7.4%	179,935
2016	\$92,072	\$219,020	\$999,082	\$1,158,219	\$1,168,827	\$1,415,769	\$1,418,574	\$1,420,520	\$1,450,134	\$1,453,118	\$1,458,388	\$1,674,866	5.6%	197,043
2015	\$120,352	\$250,079	\$1,108,417	\$1,280,687	\$1,290,241	\$1,531,683	\$1,532,431	\$1,533,349	\$1,550,247	\$1,553,571	\$1,555,211	\$1,585,539	-4.4%	186,534
2014	\$155,703	\$306,646	\$1,090,754	\$1,290,496	\$1,294,661	\$1,602,233	\$1,606,177	\$1,607,656	\$1,627,283	\$1,631,235	\$1,632,417	\$1,657,789	-10.7%	195,034
FY23 data as of 8/3/2023; Pending:														
12 Counties pay quarterly: CC, CH, DO, ES, HU, LA, LI, LY, NY, PE, ST and WP														
*Claim payments in June 2016 are skewed due to early payments ahead of \$2 fee increase														



NDOM Reserve Balance by Week for FY19 - FY24

(as of 7/31/2023)

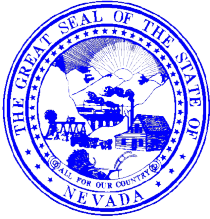


CMR-Division of Minerals - 2022-2025 Budgets and Forecasts (as of 8/2/2023)

Revenue								
GL #	Description	FY22 Actuals	FY23 Authority	FY23 YTD	FY23 Forecast	FY24 Forecast	FY25 Forecast	Remarks
2511	Balance Forward Previous Year	2,624,665	3,031,285	3,031,285	3,031,285	3,360,239	2,811,907	
3578	BLM Grant	200,000	200,000	200,000	200,000	350,000	350,000	BLM grant funding AML work. \$200k grant awarded 9/6/21, anticipate similar amount thru FY25
3580	USFS Assistance Agreement	80,349	150,000	0	25,000	80,000	80,000	USFS assistance funding AML work
3584	NPS Grant	77,787		0	0	0	0	National Park Service funding for AML work (unknown future funding)
3654	Oil Production Fee	22,668	37,907	33,297	36,000	36,000	36,000	\$0.15 per bbl fee for oil production annually (\$0.05 from 12/20 - 10/21)
3717	Oil Permit Fees	4,400	3,300	3,000	3,000	3,000	3,000	Permit fees for new oil and gas wells
3718 & 3727	Mining Claim Fees	2,644,100	2,114,150	2,742,890	2,742,890	2,633,174	2,527,847	Mining Claim fees @ \$10/claim filing, actuals for FY23, -4% for FY24, -4% for FY25
3736	Geothermal Fees	156,550	160,800	196,550	196,550	196,550	196,550	Annual fee and permit fees for geothermal wells and permitting
3740	Dissolved Mineral Resource Fees	8,000	2,000	5,000	5,000	5,000	5,000	Permit fees for DMR (lithium brine) well permits
3770	Surface Disturbance Fee (AML)	92,080	81,740	14,380	14,380	80,000	80,000	\$20 per acre fee for new mine surface disturbance, FY23=12-year avg.
4011	Copy Machines - Sales to Public	0	27	0	0	0	0	Copying charge for Public Records Request
4027	Publication Sales (AML signs)	2,937	1,210	4,370	4,370	4,370	4,370	AML signs sold at office
4218	Credit Card Rebate	294			294	294	294	
4252	Excess Property Sales	0		26,320	26,320	0	0	Auction of excess vehicles
4311	Medallion Royalty Fee	253	1,304	188	188	253	253	Fee for minting of medallions with State seal remitted to NDOM
4326	Treasurer's Interest	24,971	40,990	61,424	92,000	80,000	80,000	Interest we receive for money deposited with Treasurer
4611	Furlough Reimbursement		13,434	13,434	13,434	0	0	One -time ARPA reimbursement for FY22 furloughs
4620	Transfer from Recl. Bond Pool	58,057	80,793	58,818	58,818	58,818	58,818	Fee from Bond Pool for NDOM Management
4669	CARES Act Reimbursement	0			0	0	0	Federal funds used to offset pandemic related expenditures
	REVENUE TOTAL	\$5,997,111	\$5,918,940	\$6,390,956	\$6,449,529	\$6,887,698	\$6,234,040	
Expenditures								
CAT #	Description	FY22 Actuals	FY23 Authority	FY23 YTD	FY23 Forecast	FY24 Forecast	FY25 Forecast	Remarks
01	Personnel (Sal.,WC, PERS,OT)	1,183,314	1,315,261	1,131,846	1,131,846	1,393,386	1,561,386	12% COLA in FY24, 11% COLA in FY25, FY24 +86k new GIS (9 mos.), FY25 +114k (GIS), FY24 \$40k (TL payout), FY25 \$40k (TL payout)
02	Out-of-State Travel (Staff, CMR)	16,381	28,605	27,122	27,122	33,642	38,357	FY23 as in budget, FY24/25 as budgeted
03	In-State Travel (Non-AML)	11,966	12,900	12,613	12,613	15,425	15,425	Travel, lodging and per-diem within State, as budgeted
04	Carson Operating Expenses	105,272	113,134	109,460	113,134	115,257	162,220	Rent, Operating supplies, as in budgets, one new vehicle in FY25
05	Equipment	1,210	1,706	1,306	1,706	5,216	5,268	Desks, chairs, as in budget
08	CMR Travel (In-State)	1,712	7,128	307	307	9,907	9,907	As in Budget
09	Special Projects (Mackay, NBMG)	152,016	539,207	316,523	316,523	435,650	137,839	FY23 \$97.2k (NBMG-base contract), \$27k (PDAC), \$5k (AME), \$15k (NvMA Ed), \$15k (McCaw), \$18,262 (NBMG Mining District Files Scanning), \$125,490 SOSA Marketing, \$10k YESCO billboards; FY24-\$66.5k (NBMG), \$19,970 (NBMG Scanning), \$43.2k (NBMG Soda Lake Geo), \$37.8k (NBMG-RRV), \$37.8k (NBMG-Li); \$146k MCoE; \$47k (PDAC/AME/NvMA Ed); \$10k YESCO billboards; \$27.4 (GBSSRL equipment match), FY25-\$120.8k (NBMG), \$47k (PDAC/AME/NvMA Ed)
14	Las Vegas Operating Expenses	41,420	46,442	43,086	46,442	42,182	43,041	As in budgets
17	Fluid Minerals	12,986	16,983	14,426	14,426	19,145	19,145	Field expenses for OGG and DMRE, as in budget
18	AML Support (per diem, trucks, fuel, AML supplies and travel, SOSA supplies)	134,367	239,174	238,880	239,174	263,091	220,091	Up to 8 summer interns and 4 winterns FY23-25; includes one new truck FY24
26 & 82	Computer and IT	34,411	30,429	29,343	30,429	131,899	107,887	Computer hardware/replacements; EITS services and support; ASD financial services (\$88k/yr)
30	Training	5,075	6,764	5,772	6,764	7,375	7,375	ESRI and other training
39	AML Enhancements(contracts, equip.)	1,133,857	1,076,806	1,071,378	1,076,806	1,159,800	1,158,600	\$960.5k/yr contracted AML closure and related work. \$50k/yr CL Cty revisits (thru 23), \$50k/yr geo analysis, \$100k/yr cultural surveys, \$20k/yr helicopter surveys, \$24.5k/yr wildlife surveys
42	Public Agency AML Securing		400,000	0	0	400,000	0	Any unspent funds from FY23 would be transferred to FY24
87 & 88 & 89	Cost Allocations (State, Purchasing, AG)	90,693	71,998	71,998	71,998	43,816	57,963	Purchasing assessment, AG cost allocation, State cost allocation
	EXPENDITURE TOTAL	\$2,924,679			\$3,089,290	\$4,075,791	\$3,544,504	
86	Reserve - Balance Forward to Next Year	\$3,072,432			\$3,360,239	\$2,811,907	\$2,689,535	
		\$1,467,809			\$1,815,594	\$774,012	\$917,283	Reserve Amount in excess of "50% of Expenditures" guidance

VI. Commission Business

VI.A Review of the staff monthly activity reports



STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 • Fax (775) 684-7052
<http://minerals.nv.gov/>



JOE LOMBARDO
Governor

Las Vegas Office: 375 E. Warm Springs Rd. #205, Las Vegas, NV 89119
Phone: (702) 486-4343; Fax: (702) 486-4345

MICHAEL VISHER
Administrator

April 2023
MONTHLY ACTIVITY REPORTS

Administrator (Mike Visher):

1. Provided a Nevada Mineral Industry presentation to a mining delegation from Ontario, Canada.
2. Provided presentations on multiple topics at the annual BLM Solid Minerals Team meeting.
3. Provided a presentation on geothermal uses and regulations in Nevada to a geothermal delegation from Croatia.
4. Met with and received an update on Fervo's activities at Blue Mountain.
5. Participated in Nevada Mineral Exploration Day at the Legislature.
6. Met with NDEP BWPC staff and provided an overview of typical geothermal exploration and production processes, permitting, and multi-agency coordination activities.
7. Attended Ormat's North Valley Geothermal Power Plant dedication and ribbon-cutting ceremony.
8. Attended agency budget close hearing, no changes made.
9. Attended AB 313 (Pit Lakes) hearing and subsequent stakeholders meeting, provided comments on proposed amendment.
10. Worked with Rob to complete and submit the report to the Governor's Office as required by Executive Order 2023-003 regarding recommendations for updates and/or changes to agency regulations.
11. Meetings attended: UNR Department of Geological Science and Engineering faculty, RECO Geothermal Working Group, NvMA Public Policy, NPGS, CMR regulatory updates, Greenlink West EIS, NREL Geothermal Regulatory Working Group, Greenlink North EIS, FRTC Interagency Executive Committee, DOE Critical Minerals seminar, and Mackay Executive Advisory Board .

Deputy Administrator (Rob Ghiglieri):

1. Bond pool activity in April consisted of one new notice-level bond and the completion of the quarterly reconciliation report submitted to the Controller's Office.
2. Attended the Interstate Mining Compact Commission (IMCC) meeting in Philadelphia, PA. Received various updates on ongoing mining reform bills and AML updates with OEPC and OSMRE. Compiled a review of all the hardrock AML discussions held at IMCC and provided an update to NAAMLPL.
3. Provided OEPC with previous NAAMLPL award winning hardrock AML project information packets to help demonstrate the quick wins that could happen with additional IJA Section 40704 funding.
4. Continued planning the Northern Nevada Earth Science Teachers Workshop. The NvMA Education Committee has secured enough funding to provide up to 85 teachers with a \$200 stipend to offset the travel costs to the workshop in Winnemucca. Secured three hotel room blocks for volunteers and attendees. Class schedules, agendas, and tour planning are being finalized.
5. Attended the NDOM budget closing at the Legislature and continued following various bills during this session.
6. Assisted in the planning for the International Mine Closure Conference. I will be on the planning committee until the conference in October.
7. In coordination with NDEP's AML program, helped NBMG submit a grant proposal to the USGS Earth MRI Mine Waste study.

8. Worked with Lucia to provide the USGS a limited snapshot of NDOM's AML database for input testing into the new National Hardrock AML Database.
9. In coordination with State Purchasing, started compiling a large Scope of Work for all AML type work to be released for a good of the state contract. This Scope of Work will be completed in May and an anticipated release date will be summer of 2023.
10. End-of-April financial summary of bond pool:

Reclamation Bond Pool Status Report		Current to: 5/1/2023						
Plan-level Bonds -Company	Project	Entry Date	Bond Amount	% of Pool	Comments	Deposit	Premiums Paid	% Bond Whole
Allegiant Gold	Eastside	11/19/2021	\$163,064.00	8.24%		\$84,036.27	\$25,405.01	67.1%
Custom Details	Bovie-Lew	11/17/2006	\$14,643.00	0.74%		\$7,328.32	\$19,078.63	180.3%
New Gold Nevada (NV Rae)	Black Rock Canyon	4/15/2005	\$66,673.00	3.37%		\$33,715.62	\$173,709.30	311.1%
SNL Sand LLC	Money Pit	5/21/2004	\$430,088.00	21.74%		\$233,171.91	\$306,088.68	125.4%
Western Mine Dev.	Victorine Mine	5/24/2000	\$45,875.39	2.32%	terminated	\$0.00	\$0.00	
Western Mine Dev.	Kingston Mill	5/24/2000	\$100,450.00	5.08%	terminated	\$0.00	\$0.00	
TNT Venture	Big Canyon	1/27/2010	\$78,161.00	3.95%		\$39,615.03	\$52,883.73	118.3%
Dun Glen Mining	Dun Glen	8/11/2014	\$439,240.00	22.20%		\$238,536.99	\$220,469.81	104.5%
Statewide Notice-Level	Various	various	\$603,168.00	30.48%	47 Notice-level bonds			
Total Bond Amount			\$1,978,728.39					
Cash in Pool's Account (From BSR - 4/28/2023)			\$3,118,115.00					
Unfunded Amount			-\$1,139,386.61					
Percent funded			157.6%					

Chief, Abandoned Mine Lands Program (Sean Derby):

1. Provided guidance on land status and eligibility for a DOE clean energy project proposal on a historic mine site in Nye County.
2. Held a joint meeting with NDOW, BLM, Broadbent, and West, Inc. to update survey priorities for cultural and wildlife for six proposed hard closure projects in Lincoln, Nye, Eureka, White Pine, and Mineral counties.
3. Tasked geological analysis contractor Bob Thomas to complete geological characterization and sampling of the historic Freiburg Mining District. Completed site vetting and ground truthing of hazards in the district in anticipation of future hard closure NEPA compliance and geological characterization.
4. Completed topo ranking and site selection for 2023 intern field season.
5. Coordinated with BLM Tonopah Field Office to receive approval for architectural archeological survey work on structures at the Montana Station hard closure project in Nye County and we expect CX approval in May 2023.
6. Continued biannual claimant notification correspondence with indivual claimants and county officials to complete needed securings at AML hazards statewide.
7. Fulfilled public data requests for projects in Nye, Pershing, Humboldt, and Esmeralda counties.
8. Provided data and guidance to NDOT relevant to a large highway project in Nye and Churchill counties.
9. AML contractor EPS finalized seasonal revisit project work totaling 800 revisits in Nye and Clark counties.
10. AML contractor EPS began hard closure project work at Logandale in Clark County. Permanent closure of 15 sites is expected to be complete by the end of May 2023.
11. AML statistics as of the end of April:

	Sites Inventoried	Sites Secured	% Secured
Since 1987	24,705	20,473	82.9%
2023 To Date	68	49	72.1%

GIS/ Field Specialist (Lucia Patterson):

1. Created and compiled educational materials for use during Mineral Exploration Day at the Legislature.
2. Summarized changes proposed in the new BLM proposed rule for Conservation and Landscape Health.
3. Entered all annual status and production data as it was received.
4. Updated mining claims on the open data site.
5. Worked on modifying and editing the land withdrawal and mineral production application after receiving outside comments.
6. Worked on resolving AML database issues.

AML/Fluid Minerals Field Specialist (Peter Engh to start May 15th):

Fluid Minerals Program Manager (Dustin Holcomb):

1. Responded to several AML and Fluid Mineral data requests.
2. Answered two geothermal and two DMRE permitting questions.
3. Coordinated the equipment installation on the two new F-150 AML field trucks.
4. Met with Fervo to discuss UIC permitting options.
5. Met with NDEP to discuss the geothermal exploration and production process and timeline.
6. Prepared Out-of-State Travel Requests for IOGCC Oklahoma City, OK, GTS Houston, TX, and TOP Energy Training Golden, CO.
7. Created a sundry tracker with Valerie’s help.
8. Set up a new fluids email address to receive daily drilling reports.
9. Processed and approved four geothermal sundries.
10. Approved seven NOIs to drill DMRE boreholes in Esmeralda County
11. Approved two DMRE exploration well permits in Clark County
12. Shared mud log data with the BLM regarding ongoing litigation between them and an operator.
13. Calculated the percentages of geothermal permits that have expired (i.e., never drilled) and permits for wells that have been P&A’d, 37% and 26% respectively.
14. Met with Ormat to explain the Project Area permitting requirements and establish a new project area permit for Ormat’s Pearl Project in Esmeralda County.
15. Provided well data for several wells in the San Emidio field to the NDEP UIC permit writer.
16. Reconciled the DMRE database and followed up on missing quarterly flow reports.
17. No well inspections occurred in April. Current status of well inspections:

FY 2023 Well Inspections	Total Wells	Well Inspections Needed for FY23	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (20 Locations)	474		174		
Oil (23 Locations)	122		17		
Totals	596	199	191	96%	8

AML/Public Outreach – Southern Nevada Programs Manager (Garrett Wake):

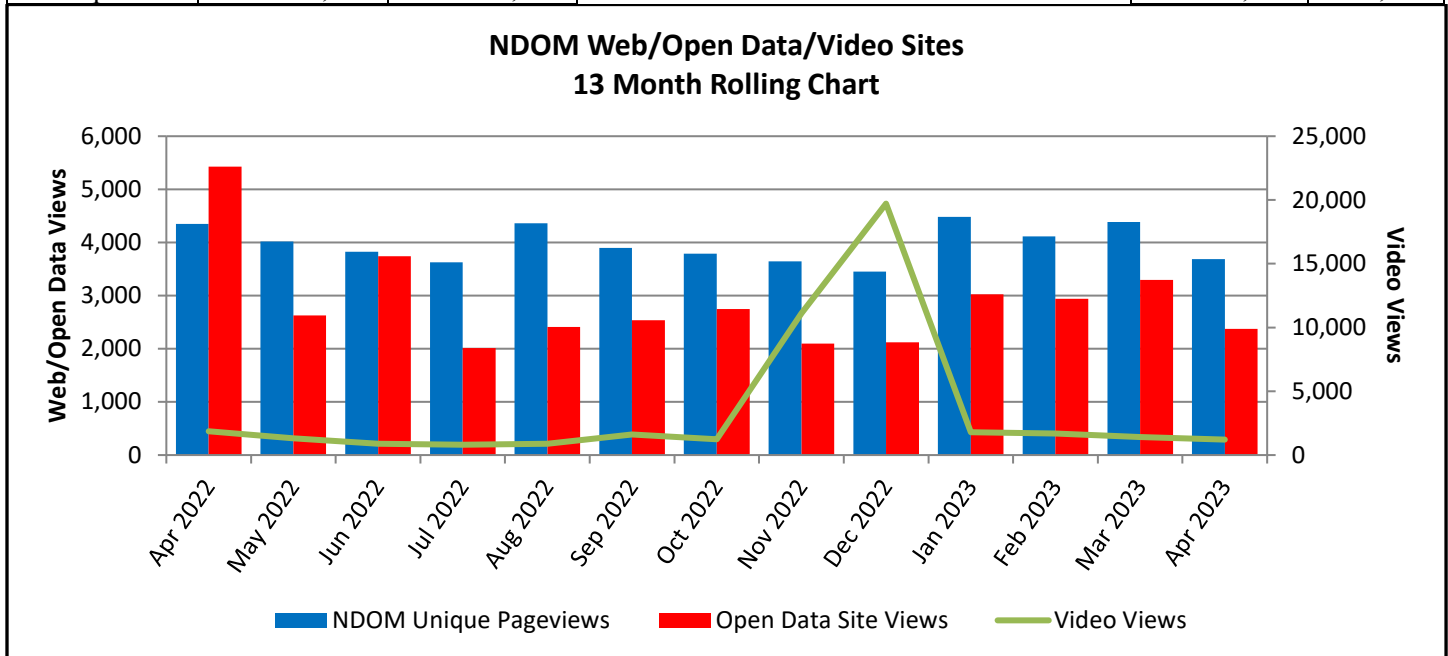
1. Conducted seven earth science or careers presentations in K-12 classrooms: approximately 400 students and staff in attendance.
2. Prepared the 2023 AML spring first letter notification mailout consisting of 168 claimant packets containing information for 576 hazards. Responded to more than 22 claimants’ phone calls, emails and in person meetings asking for maps, photos, and additional information for 157 hazards.
3. Received CX from BLM Southern NV District Office for the Logandale Hard Closure Project in Southern Nevada. Participated in kickoff meeting with EPS and tortoise training with NDOW. EPS began work on April 26th and forecasts a 4- to 6-week timeline to finish the project.
4. Continued to manage EPS field crew as part of the Southern Nevada revisit and fencing contract through April; two new hazards logged, four hazards secured, and more than 300 non-hazards identified while clearing previously unvisited prospects east of the Desert National Wildlife Refuge and Muddy Mountains areas. This contract is on pause due to the end of FY funding and the start of the Logandale project.
5. Continued to facilitate the All About Mining: Mining for a STEAM Education 2023 spring session. 31 of 33 K-12 educators are on-track to receive one professional development credit when the course concludes on May 17th, 2023.
6. Submitted documentation for, and was approved as, the Teacher of Record for the Northern Nevada Earth Science Teachers Workshop with the Nevada Department of Education. Submitted a course request for this year’s annual workshop.
7. Ordered and received CMR-approved AV equipment for a modern mining exhibit to be installed at the McCaw School of Mines. Conducted a “soft launch” of the projection system showing about 10-minutes of video footage of underground mining operation and reclamation at an open pit mine. Approximately 350 visitors viewed the system, and the feedback was very positive.

AML/Public Outreach and Education – Southern Nevada Field Specialist (Carol Shelton):

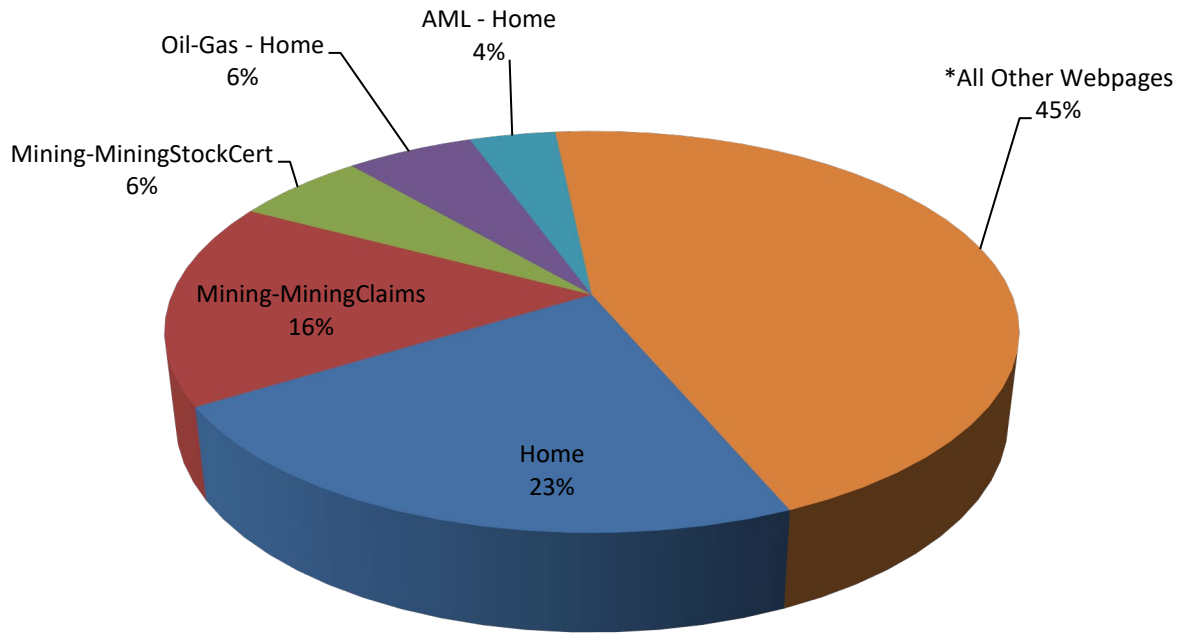
1. Participated in Summer Interns interview process.
2. Presented on minerals, mining, and AML at Divich and Warren ES to approximately 700 students.
3. Conducted eight geoscience presentations at Chaparral HS with approximately 650 students.
4. Joined Garrett Wake for desert tortoise training and met with the hard closure contractor.
5. Completed many tutorials to familiarize myself with ArcGIS Pro.
6. Reviewed geoscience principles of navigation and topography map reading to prepare for the summer activities.
7. Updated and reformatted the “Build A Mine” presentation and associated worksheet.
8. Prepared presentation on Critical Minerals.
9. Prepared high school geoscience presentation to include minerals, mining in Nevada, critical minerals, and AML.

Website Activity:

Period	Pageviews	Unique Pageviews	Top 5 Pageviews	Open Data Site Views	Video Views
Apr 2023	4,968	3,690	Home, Mining-MiningClaims, Mining-MiningStockCert, Oil and Gas - Home, and AML-Home	2,376	1,219
Apr 2022-Apr 2023	69,774	51,636		37,367	45,557



NDOM Website - Top 5 Unique Page Views for April 2023



*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

Top Visitors

Apr-2023	Country	United States, Canada, Mexico, China (tie), and (unknown) (tie)
	State	Nevada, California, Washington, Texas, and Oregon
	City	(unknown), Reno, Las Vegas, Los Angeles (tie), and Sacramento (tie)

	<u>Video Views</u> in <u>April 2023</u>	<u>Top 5 Video Views</u>	<u>Dist</u> <u>Learn</u> <u>Trkr #</u> <u>of</u> <u>Classes</u>	<u>No.</u> <u>NV</u> <u>45%</u>	<u>So.</u> <u>NV</u> <u>55%</u>
Without Jimmy King Videos	1,094	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Ore Deposits an Overview; 4) Weathering & Erosion Part 1; and 5) SOSA 2021 Full.	44	20	24
With Jimmy King Videos	1,219	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Ore Deposits an Overview; 4) Weathering & Erosion Part 1; and 5) Jimmy King KOBI Full.	49	22	27

Video views for Jimmy King KOBI are from the NDOM YouTube site only



STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 • Fax (775) 684-7052
<http://minerals.nv.gov/>



JOE LOMBARDO
Governor

Las Vegas Office: 375 E. Warm Springs Rd. #205, Las Vegas, NV 89119
Phone: (702) 486-4343; Fax: (702) 486-4345

MICHAEL VISHER
Administrator

MONTHLY ACTIVITY REPORTS

May 2023

Administrator (Mike Visher):

1. Nominated Lucia Patterson and Carol Shelton for recognition by the Governor as part of State Employee Appreciation Week. Lucia was selected and presented an award and certificate by Governor Lombardo.
2. Met with representatives from Aquarry (<https://www.aquarry.earth/>) proposing to use an existing pit lake to demonstrate carbon sequestration viability in Nevada.
3. Conducted literature research for NV Energy on abandoned mine property in Nye County as they pursue federal grant funding for installation of renewable energy on abandoned mine lands.
4. Worked with representatives from 3PL Operating and their contractors to receive required DMRE reports.
5. Provided an update on mineral production and exploration activity at the annual MALRI landmen's meeting.
6. Attended the Geothermal Transitions Summit in Houston to engage with companies looking to apply oil and gas drilling technologies to advance geothermal energy production.
7. Meetings attended: CMR quarterly meeting, CMR Special Meeting, NDOM staff meeting, BOE, RECO Geothermal Working Group, Enhanced Geothermal Shot Summit, NvMA Public Policy, Smart From the Start, Stagecoach Wind EIS, Alaska DEC and NDEP regulatory group, Sagebrush Ecosystem Council, MOAC, NREL Geothermal Regulatory Working Group, and IOGCC.

Deputy Administrator (Rob Ghiglieri):

1. Bond pool activity in May consisted of one new notice level bond.
2. Reviewed and scored 14 State Geological Survey proposals for the USGS Earth MRI Mine Waste Cooperative Agreements. Participated in the evaluation committee and recommended project funding as a committee member.
3. Along with staff from IMCC, held two separate meetings with congressional staffers (for Lee – NV and Pallone – NJ) to discuss Hardrock AML funding and Good Samaritan legislation.
4. Continued planning for the Northern Nevada Earth Science Teachers Workshop.
5. Attended and presented at the quarterly Commission on Mineral Resources meeting.
6. Attended the special hearing for Commission on Mineral Resources.
7. Assisted in the planning for the International Mine Closure Conference. I am focused on the sponsorships and will be on the planning committee until the conference in October.
8. Submitted another BLM assistance agreement request for \$100,000. This will bring the federal FY23 funding request to \$600,000 which would reach the limit of the existing agreement. The plan is to create a new agreement by the end of the calendar year.
9. Followed various bills in the legislature.
10. Started the Certified Public Managers certification course. This course will take 18 months to complete.
11. Coordinated and held a meeting with NDEP, NDOM and two mining related Alaska state agencies to discuss ongoing mining, federal regulations, and opportunities to learn from each other.
12. End-of-May financial summary of bond pool:

Reclamation Bond Pool Status Report		Current to: 6/1/2023						
Plan-level Bonds - Company	Project	Entry Date	Bond Amount	% of Pool	Comments	Deposit	Premiums Paid	% Bond Whole
Allegiant Gold	Eastside	11/19/2021	\$163,064.00	8.18%		\$84,036.27	\$25,405.01	67.1%
Custom Details	Bovie-Lew	11/17/2006	\$14,643.00	0.73%		\$7,328.32	\$19,078.63	180.3%
New Gold Nevada (NV Rae)	Black Rock Canyon	4/15/2005	\$66,673.00	3.35%		\$33,715.62	\$173,709.30	311.1%
SNL Sand LLC	Money Pit	5/21/2004	\$430,088.00	21.59%		\$233,171.91	\$306,088.68	125.4%
Western Mine Dev.	Victorine Mine	5/24/2000	\$45,875.39	2.30%	terminated	\$0.00	\$0.00	
Western Mine Dev.	Kingston Mill	5/24/2000	\$100,450.00	5.04%	terminated	\$0.00	\$0.00	
TNT Venture	Big Canyon	1/27/2010	\$78,161.00	3.92%		\$39,615.03	\$52,883.73	118.3%
Dun Glen Mining	Dun Glen	8/11/2014	\$439,240.00	22.05%		\$238,536.99	\$220,469.81	104.5%
Statewide Notice-Level	Various	various	\$603,168.00	30.27%	48 Notice-level bonds			
Total Bond Amount			\$1,992,431.39					
Cash in Pool's Account (From BSR - 4/28/2023)			\$3,131,312.12					
Unfunded Amount			-\$1,138,880.73					
Percent funded			157.2%					

Chief, Abandoned Mine Lands Program (Sean Derby):

- Held a follow up meeting with USFS staff to provide projections for hard closure work in FY2025.
- Received feedback from NEPA required survey work for two hard closure projects in Lyon and Lincoln counties. Survey work will contribute to geological, archeological, and wildlife reports required for final project approval.
- EPS completed a hard closure project in Clark County including 15 AML features in Clark County. EPS also commenced the Pine Nut Mountains hard closure project to include 67 AML features Douglas, Carson City, and Lyon Counties.
- Completed intern training week including training sessions from BLM and NDEP staff. Interns received CPR and First Aid certification and are now qualified as Deputy Archeological Technician's. Interns also received safety and NDOM field program training including off-road driver training, map skills training, and communication protocols.
- Continued with biannual claimant notification correspondence with individual claimants and county officials to complete needed securings at AML hazards statewide.
- Fulfilled public data requests for projects in Washoe, Pershing, and Mineral counties.
- Met with NDEP and BLM HazMat staff to discuss the Cordero and Bonnie Claire mine site reclamation projects.
- Worked with BLM law enforcement to provide hazard information and guidance on enquiry resulting from a theft and vandalization incident in Nye County.
- End-of-May AML statistics:

	Sites Inventoried	Sites Secured	% Secured
Since 1987	24,706	20,547	83.2%
2023 To Date	69	123	178.3%

GIS/ Field Specialist (Lucia Patterson):

- Finished Mineral Withdrawal Application and presented it to the CMR and MALRI.
- Prepared interns field data and got Mesa tablets ready for the field season.
- Pulled land withdrawal data from BLM to compare spatial data with existing polygons.
- Troubleshooted with EITS on issues with copying files to and from the server.
- Fixed OGG lease data scripts that needed to be modified following BLM data migration to MLRS.
- Updated DMRE data on open data site.
- Provided data for Debbie Struhsacker on land withdrawals.
- Started remodeling the Bond Pool database.
- Summarized the Washoe County Lands Bill.
- Attended the public meeting on the Washoe County Lands Bill.
- Entered all annual status and production data as it was received.
- Updated mining claims on the open data site twice.

AML/Fluid Minerals Field Specialist (Peter Engh):

1. Completed NDOM AML field protocol training, safety training, and UTV training.
2. Completed UAV testing and received FAA drone pilot certification.
3. Attended a meeting with USFS staff and followed up with site selection for five proposed hard closure projects including 139 sites in Elko, Eureka, Lyon, Nye, Mineral counties projected for work in FY 2025.
4. Conducted biannual notification correspondence with individual claimants and county officials to complete needed securings at AML hazards statewide and document claimant compliance.
5. Supervised interns in Pershing County and provided support via drone reconnaissance.

Fluid Minerals Program Manager (Dustin Holcomb):

1. Reviewed and processed permits for one geothermal injection well and two geothermal production wells.
2. Processed one oil and gas sundry.
3. Responded to several data requests.
4. Worked with Val to make corrections to historical oil and gas production data, dating back to the 1950s.
5. Participated in the planning meeting for the Northern Nevada Teachers Workshop.
6. Visited the Schlumberger Lithium Extraction Pilot Plant in Clayton Valley.
7. Inspected GeoXplor’s drilling operations of DMRE Exploration Well TW-1 and inspected 2 shut-in geothermal observation wells, all in Clayton Valley.
8. Inspected Ormat’s drilling operations of TG well LM 36-31 and their recently completed LM 17-31 RD1 in Fish Lake Valley.
9. Inspected seven geothermal wells at Open Mountain’s Fish Lake Valley project.
10. Participated in the 2023 State Oil and Gas Field Inspector Forum, in Oklahoma City, Oklahoma.
11. Attend the Geothermal Transition Summit, in Houston, Texas.
12. Completed the first semester of TOP Energy Training in Golden, Colorado.

FY 2023 Well Inspections	Total Wells	Wells Needed for FY23 (1/3 of total)	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (20 Locations)	477		185		
Oil (23 Locations)	122		17		
Totals	599	200	202	101%	0

AML/Public Outreach – Southern Nevada Programs Manager (Garrett Wake):

1. Completed the Logandale Hard Closure Project; EPS secured 28 abandoned mines using wildlife compatible closures, backfills, and PUF fills. The project began on April 26th and concluded May 19th, one week ahead of schedule.
2. Certified 8 NDOM AML interns and one staff on Red Cross First Aid/CPR/AED and provided additional wilderness first aid and safety training.
3. Conducted 10 minerals education, careers in earth science and dangers of AML presentations in 2nd, 3rd and high school classrooms; 485 students and teachers attended the presentations.
4. Presented to the Gold Searchers of Southern Nevada on the Nevada mineral industry and the dangers of abandoned mines; approximately 35 members in attendance.
5. Concluded the All About Mining: Mining for a STEM Education 2023 spring session. Graded coursework and submitted 29 of 33 enrolled K-12 educators each for one CCSD professional development credit. Facilitated industry-expert discussion with K-12 educators.
6. Prepared all maps and binder information for the 2023 AML intern season.
7. Continued to assist mining claimants who received AML-securing letter notifications during the March 2023 mailout.
8. Toured the Bald Mountain mine with NDEP regulators to get a better understanding of mining regulation at the state level.
9. Attended a quarterly NDOM staff meeting, NDOM safety committee meeting, NvMA education committee meeting, McCaw School of Mines board meeting, GOED meeting, Veteran Peer Mentor program meeting, and two meetings with mining claimants.

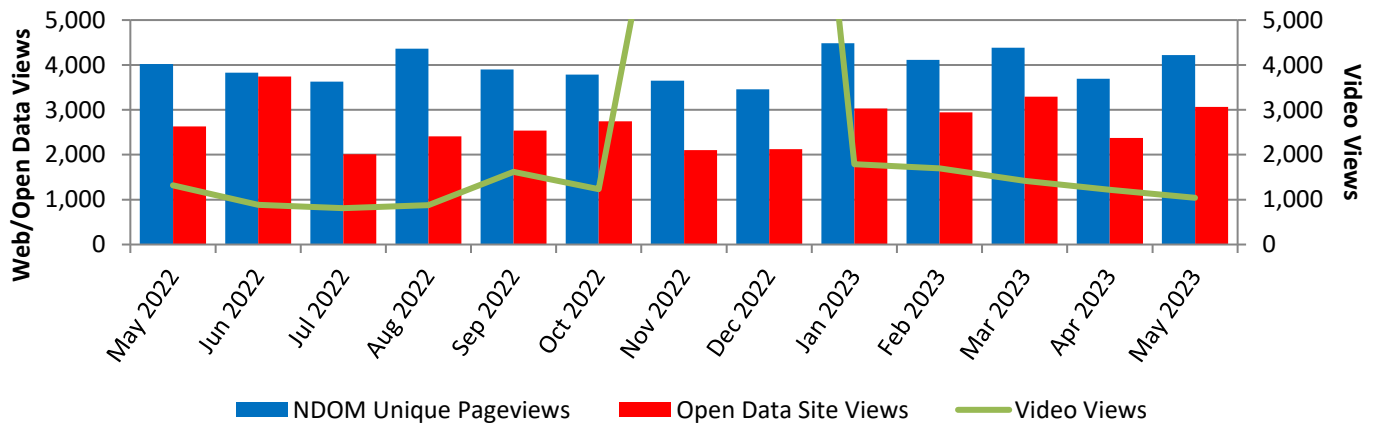
AML/Public Outreach and Education – Southern Nevada Field Specialist (Carol Shelton):

1. Prepared 50 Summer Safety Shares to be used each day by the summer interns. Topics include Hand Safety and Injury Prevention, Fire Extinguisher Inspection and Use, and Heat Stress. In addition, some topics are more general with the intent to establish a mindset of safety and include topics such as Attitude and Safety, Communicating Issues, and It Won't Happen To Me.
2. Participated in Career Day at two Elementary Schools. At Hoggard ES, gave 4 presentations to a total of 90 students and at Lunt ES presented to 125 students.
3. Conducted eight Geoscience classes at Chaparral High School attended by 600 students. Topics included minerals, mining in Nevada, careers in mining, critical minerals, and AML.
4. Attended 6 days of AML training in Carson City with the summer interns.
5. Participated with the interns for Week 1 of AML identification and securing activities.

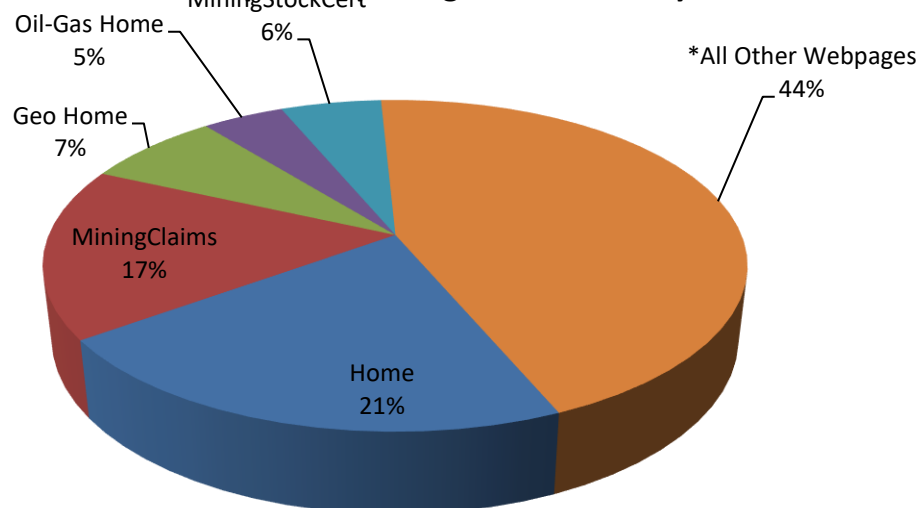
Website Activity:

Period	Pageviews	Unique Pageviews	Website Top 5 Pageviews	Open Data Site Views	Video Views
May 2023	5,595	4,223	Home, MiningClaims, Geo Home, Oil-Gas Home, and MiningStockCert	3,064	1,043
May 2022- May 2023	69,623	51,511		35,005	44,744

**NDOM Web/Open Data/Video Sites
13 Month Rolling Chart**



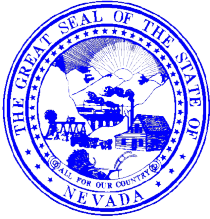
NDOM Website - Top 5 Unique Page Views for May 2023



*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

Top Visitors					
May-2023	Country	United States, Canada, China, Mexico, and United Kingdom/India (tie)			
	State	Nevada, California, Texas, Washington, and Colorado			
	City	(unknown), Reno, Las Vegas, Carson City, and Los Angeles			
	<u>Video Views in May 2023</u>	<u>Top 5 Video Views</u>	<u>Dist Learn Trkr # of Classes</u>	<u>No. NV 45%</u>	<u>So. NV 55%</u>
Without Jimmy King Videos	894	1) Mining in Nevada - 18:22 mins. (Both videos); 2) The Basics of Mineral Identification; 3) A General Overview... Earth and Nevada Geological History; 4) Ore Deposits an Overview; and 5) Weathering & Erosion Part 1	36	16	20
With Jimmy King Videos	1,043	1) Mining in Nevada - 18:22 mins. (Both videos); 2) The Basics of Mineral Identification; 3) A General Overview... Earth and Nevada Geological History; 4) JK-KOBI Full Video; and 5) Ore Deposits an Overview	42	19	23

Video views for Jimmy King KOBI are from the NDOM YouTube site only



STATE OF NEVADA
COMMISSION ON MINERAL RESOURCES
DIVISION OF MINERALS
400 W. King Street, Suite 106
Carson City, Nevada 89703
(775) 684-7040 • Fax (775) 684-7052
<http://minerals.nv.gov/>



JOE LOMBARDO
Governor

Las Vegas Office: 375 E. Warm Springs Rd. #205, Las Vegas, NV 89119
Phone: (702) 486-4343; Fax: (702) 486-4345

MICHAEL VISHER
Administrator

June 2023
MONTHLY ACTIVITY REPORTS

Administrator (Mike Visher):

1. Met with staff of the Administrative Services Division to discuss implementation of their takeover of the bulk of our agency financial duties starting in July.
2. Attended the Elko Mine Expo and answered questions from the public and industry.
3. Met with NDOW and DCNR directors and Governor's Office to coordinate on the State's response to the proposed BLM Conservation Leasing Rule.
4. Attended a CMR Special Meeting to develop the process for recruitment and hiring of a new administrator.
5. Provided information to Applied Analysis on data, contacts, and methodologies for consideration in evaluating impacts to mining industry in Nevada relevant to the recent court rulings applying the Rosemont Decision.
6. Met with and provided an interview to members of Princeton's Blue Lab on lithium exploration and mining in Nevada.
7. Met with Fervo representative to discuss their current efforts at Blue Mountain and future drilling plans.
8. Conducted six-month performance review with Field Specialist Carol Shelton.
9. Submitted quarterly agency report to the Governor's Office.
10. Requested special geothermal report from Department of Taxation and performed comparison on data reported to each agency. Some significant variances required corrections from operators for 2022 production amounts.
11. Meetings attended: BLM Conservation Leasing public presentation, NvMA Environmental Committee, NREL Geothermal Regulatory Working Group, University Center for Economic Development Advisory Board, IOGCC-sponsored Carbon Capture and Underground Sequestration and Idle and Orphan Well P&A Technologies webinars.

Deputy Administrator (Rob Ghiglieri):

1. Bond pool activity in June consisted of three notice-level releases and invoicing for both annual and quarterly premiums.
2. Finished the evaluation committee and recommendations for 14 state geological survey proposals submitted for the USGS Earth MRI Mine Waste Cooperative Agreements.
3. Attended my first 3-day Certified Public Managers (CPM) foundations course.
4. Held the 2023 Northern Nevada Earth Science Teachers Workshop. There were 38 teachers that attended both days with six classes on Wednesday and both underground and surface gold mine tours on Thursday.
5. Attended a special Commission on Mineral Resources meeting.
6. Assisted in the planning for the International Mine Closure Conference. I am focused on the sponsorships and will be on the planning committee for the conference which takes place October 2-5, in Sparks.
7. Started the coordination for the Victorine Mine and Kingston Mill expired bond reclamation project. This project will involve using the available funding from terminated bonds and finish the reclamation work at the Kingston Mill and start reclamation work at the Victorine Mine. Coordination with the BLM, USFS, patent owners, and NDEP is required for this project.
8. End-of-June financial summary of bond pool:

Nigel Bain; *Large-Scale Mining*
Robert Felder; *Exploration and Development*
Randy Griffin; *Small-Scale Mining and Prospecting*

Commission on Mineral Resources
Josh Nordquist, *Chairman; Geothermal Resources*

Stephanie Hallinan; *Large-Scale Mining*
Art Henderson; *Oil and Gas*
Mary Korpi; *Public at Large*

Reclamation Bond Pool Status Report		Current to: 7/1/2023						
Plan-level Bonds -Company	Project	Entry Date	Bond Amount	% of Pool	Comments	Deposit	Premiums Paid	% Bond Whole
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Western Mine Dev.	Kingston Mill	5/24/2000	\$100,450.00	5.14%	terminated	\$0.00	\$0.00	
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Statewide Notice-Level	Various	various	\$603,168.00	30.84%	45 Notice-level bonds			
Total Bond Amount			\$1,955,825.39					
Cash in Pool's Account (From BSR - 6/30/2023)			\$3,126,287.48					
Unfunded Amount			-\$1,170,462.09					
Percent funded			159.8%					

Chief, Abandoned Mine Lands Program (Sean Derby):

1. Completed ground truthing and inventory of the Douglas Mine in Nye County to get a finalized site list for permanent closure of 39 sites on BLM ground.
2. Conducted downhole camera scoping on a private patent in Washoe City at the request of Washoe County Sheriff's Department. I used the opportunity to task train field specialist Peter Engh. Fortunately, nothing unusual was found during the survey.
3. Received a draft report and assay analysis for geological survey work for a hard closure project in the historic Friberg Mining District
4. EPS continues hard closure project work on the Pine Nuts Mountains hard closure project. 20 of 64 hazards have been permanently closed.
5. Wildlife survey contractor West completed work at four proposed permanent closure projects in Mineral, White Pine, Lyon, and Elko counties.
6. Fulfilled public data requests for projects in Lander and Mineral counties.
7. Held a TEAMS meeting with Ontario's provincial Ministry of Mines AML program to provide information on our Jimmy King (Stay Out Stay Alive) digital marketing campaign.
8. Provided AML statewide statistics to Natural Resources Conservation Services within USDA.
9. Provided SOSA access and training to new BLM AML field specialists in the Mt. Lewis Field Office.
10. End of June AML statistics:

	Sites Inventoried	Sites Secured	% Secured
Since 1987	24,824	20,626	83%
2023 To Date	102	202	198%

GIS/ Field Specialist (Lucia Patterson):

1. Worked on "remodeling" the Bond Pool database.
2. Attended the Elko Mine Expo.
3. Processed and prepared data for the AML summer interns.
4. Created a new presentation and prepared activities for the "Natural Explosions Class" for the Winnemucca Earth Sciences Teachers Workshop.
5. Attended, and taught five classes at the Winnemucca Earth Sciences Teachers Workshop.
6. Completed a presentation to be given in San Diego at the 2023 ESRI Users Conference.
7. Edited the geologic assessment report from McGinley and Associates for the Freiberg AML hard closure project.
8. Fixed OGG pop-ups for completing research for the latter on the Open Data Site.
9. Updated mining claims and the "Areas With Limitations" DMRE map on the Open Data Site.

AML Field Specialist (Peter Engh):

1. Assisted with the Winnemucca Teachers Conference and provided support for tours of the Turquoise Ridge Mine.

- Supervised interns in Humboldt, Mineral, Esmerelda, and Lander counties, while providing support via drone reconnaissance.
- Coordinated with Frank Noland of National Mining to complete a cooperative safeguarding project near the historic Birthday Mine
- Corresponded with claimants to obtain key information regarding future securings to be completed during the fall season.
- Started work on a database cleanup project in ArcGIS for improperly classified non-hazards from the 2010 field season.
- Performed a downhole camera inspection for a claimant near Virginia City.
- Operated a drone flight for the hazard inventory of a hard closure project in Nye County.
- Researched and enrolled in a Wilderness First Responder course to maximize first aid knowledge for field work.

Fluid Minerals Program Manager (Dustin Holcomb):

- Completed the first semester of TOPCORP training in Golden, CO.
- Responded to several public data enquiries and questions about fluid minerals permitting.
- Taught two classes and led one tour at the Northern Nevada Teachers Workshop in Winnemucca.
- Provided a lithium regulations presentation to a Japanese delegation from Kosmos Oil.
- Processed one oil and gas sundry and three geothermal sundries.
- Remotely monitored the drilling of one oil well and two geothermal wells.
- Approved permits for three geothermal observation wells in Esmeralda County.
- Approved four DMRE NOIs for drilling exploration boreholes in Fish Lake Valley.
- Reviewed one DMRE Exploration Well in Big Smokey Valley, which was later withdrawn.
- Began coordinating efforts with NBMG to develop an OGG data sharing program.
- Final status of wells inspections for fiscal year 2023:

FY 2023 Well Inspections	Total Wells	Wells Needed for FY23 (1/3 of total)	Wells Inspected	% of Total Needed	Wells Remaining
Geothermal (20 Locations)	480		185		
Oil (23 Locations)	122		17		
Totals	602	201	202	101%	0

AML/Public Outreach – Southern Nevada Programs Manager (Garrett Wake):

- Supervised four NDOM AML interns near the town of Crescent Peak over five days.
- Conducted one minerals education and dangers of AML presentations at the Pahrump Library’s Reading Week event; approximately 120 children and adults attended the presentation.
- Completed five days of the Certified Public Managers Course covering public speaking, management practices and accountability.
- Created tour logs for all Northern Nevada workshop tours. Also created the surveys, QR codes and related handouts for the workshop.
- Travelled to Beatty to investigate an AML hazard reported by the public. Logged four new hazards in the area.
- Created the Logandale AML RAMS Hard Closure Fact Sheet.
- Continued to assist mining claimants who received AML-securing letter notifications during the March 2023 mailout.
- Attended an NVMA education committee meeting, BLM virtual public meeting (conservation leases), McCaw School of Mines board meeting and an NDOM staff meeting.

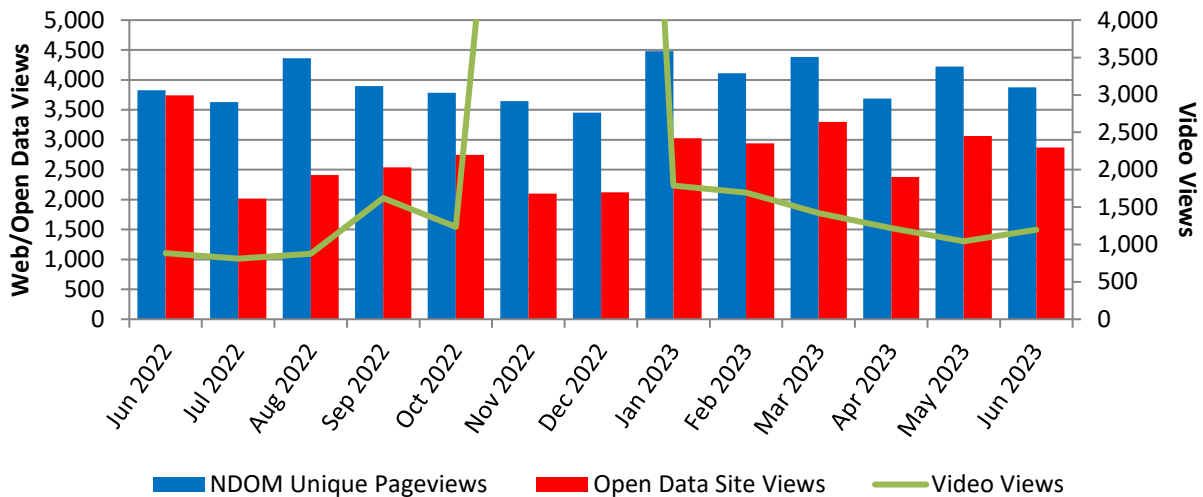
AML/Public Outreach and Education – Southern Nevada Field Specialist (Carol Shelton):

- Participated in Week 2 of intern fieldwork.
- Conducted desktop aerial recon on potential AML sites.
- Provided support at the Winnemucca Teacher’s Workshop.
- Attended mandatory Risk Management Workplace Violence training.
- Met with BLM State Lead for Community Engagement Education, Interpretation, Youth, Volunteers, and Partnerships to work on future educational and outreach collaboration.
- Prepared two safety training decks for field personnel, Snake Safety and Lightning Awareness and Safety.

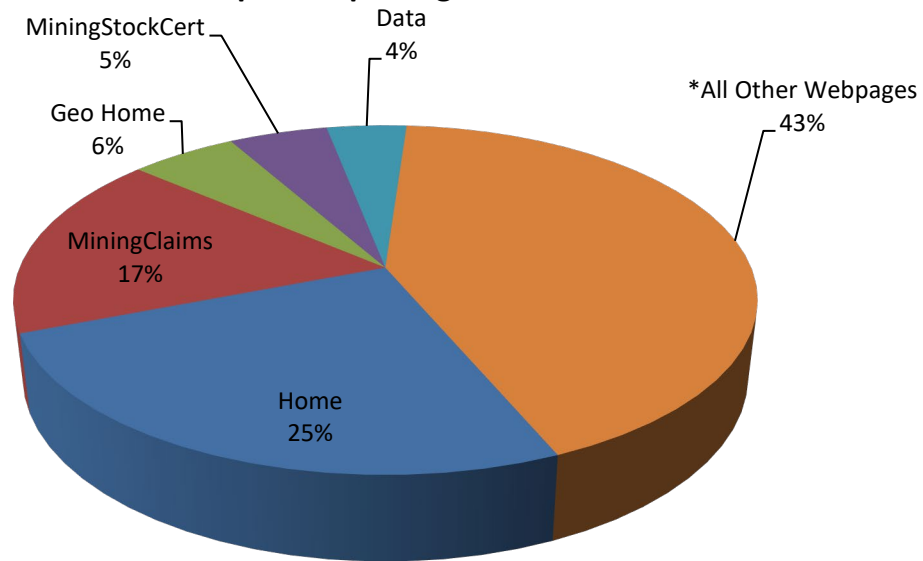
Website Activity:

Period	Website Pageviews	Website Unique Pageviews	Website Top 5 Pageviews	Open Data Site Views	Video Views
Jun 2023	5,226	3,877	Home, MiningClaims, Geo Home, MiningStockCert, and Data	2,870	1,197
June 2022- June 2023	69,433	51,369		35,247	44,625

**NDOM Web/Open Data/Video Sites
13 Month Rolling Chart**



NDOM Website - Top 5 Unique Page Views for June 2023



*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

Top Visitors

Jun-2023	Country	United States, Canada, China, Mexico, and India/(unknown) (tie)
	State	Nevada, California, Washington, Texas, and (unknown)
	City	(unknown), Reno, Las Vegas, Carson City, and Los Angeles

	<u>Video Views in June 2023</u>	<u>Top 5 Video Views</u>	<u>Dist Learn Trkr # of Classes</u>	<u>No. NV 45%</u>	<u>So. NV 55%</u>
Without Jimmy King Videos	1,038	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) Ore Deposits an Overview; 4) Rock & Mineral Collecting, Land Status, & Mining Claims An Overview; and 5) A General Overview... Earth and Nevada Geological History	42	19	23
With Jimmy King Videos	1,197	1) Mining in Nevada - 18:22 mins. (both videos); 2) The Basics of Mineral Identification; 3) JK-KOBI Full Video; 4) Ore Deposits an Overview; and 5) Rock & Mineral Collecting, Land Status, & Mining Claims An Overview	48	22	26

VI.B Set date for the next commission meeting