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COMMISSION ON MINERAL RESOURCES  
**DIVISION OF MINERALS**  
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Administrator

**COMMISSION ON MINERAL RESOURCES**  
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<https://us02web.zoom.us/j/9712825638?pwd=YkZPbHJIdUQ0cUo3bldzb2k3aS9UUT09>  
Meeting ID: 971 282 5638

Thursday, May 19, 2022

1:00 P.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. MINUTES**

A. Approval of the March 10, 2022 meeting minutes

**FOR POSSIBLE ACTION**

**III. NEW BUSINESS**

A. NBMG Special Project Proposals

**FOR POSSIBLE ACTION**

The Nevada Bureau of Mines and Geology (NBMG) will re-present a previously considered proposal for a Special Project. The Soda Lake Geothermal Report was considered at the CMR March 11, 2021 meeting. Three new proposals will also be presented. The Commission will discuss and may approve one or more projects to be funded by a future agreement between the Commission and NBMG. Material information for the project has been posted online along with this meeting's notice and agenda.

B. 2022 AML Summer Intern Program Overview

Goals and plans for the 14-week summer intern program will be reviewed along with a brief introduction of the students. - Sean Derby

**FOR DISCUSSION ONLY**

C. The McCaw School of Mines Exhibit Proposal

The McCaw School of Mines has requested financial assistance from the Commission for the creation and installation of a modern mining multimedia projection exhibit. A review of the project and proposed budget will be presented for consideration. Material information for the project has been posted online along with this meeting's notice and agenda. - Garrett Wake

**FOR POSSIBLE ACTION**

D. Proposal to Add GIS Analyst Position to Agency's FY24/25 Budget Submission

The Division is proposing to add one FTE as an unclassified GIS Analyst as part of the agency's biennial budget submission. The justification, anticipated timing, ongoing cost of the position and impacts to the budget will be reviewed. The Division is seeking approval from the Commission to move forward with the necessary planning and incorporation in the proposed budget. – Mike Visser

**FOR POSSIBLE ACTION**

E. Proposal to Establish an AML Hard Closure Fund

The Division has identified approximately 270 AML hazards located on lands owned by counties, municipalities, and State agencies. The Division is proposing to create a new expenditure category, funded by a transfer from the existing reserves, from which these entities can apply for sufficient funding to perform or contract their own hard closure efforts. A review of the proposed program, its goals, logistics, interested entities, and initial funding will be discussed. - Mike Visser, Rob Ghiglieri, and Sean Derby

**FOR POSSIBLE ACTION**

F. Strategic Planning Session for Biennial Budget Fiscal Years 2024-25

The State biennial budget kickoff meeting was held on March 9th, with directions and schedules from the Governor's Finance Office (GFO). The GFO provided a new Strategic Planning framework document outlining the vision, mission and strategic priorities for State Agencies, Boards and Commissions. A review of the planning framework and how the Division's programs align with the Governor's core functions and priorities will be presented for discussion and possible modification. – Rob Ghiglieri and Mike Visser

**FOR POSSIBLE ACTION**

**IV. OLD BUSINESS**

A. Financial Update

A review will be provided of the agency's 2021 – 2025 budget and forecast to include a discussion on forecast revenues, expenditures, and reserves.

- Mike Visser

**FOR POSSIBLE ACTION**

B. Update on Status of Previously Approved AML Enhancement/Special Projects

A status update on several enhancement projects will be provided.

- Rob Ghiglieri

**FOR DISCUSSION ONLY**

**COMMISSION BUSINESS**

A. Review of staff monthly activity reports.

B. Set date for next Commission meeting

**FOR DISCUSSION ONLY**

**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 Sherrie Nuckolls at (775) 684-7043 or Email [SNuckolls@minerals.nv.gov](mailto:SNuckolls@minerals.nv.gov)

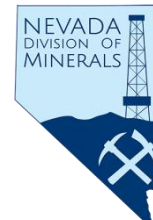
## **II. MINUTES**



**STEVE SISOLAK**  
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Thursday, May 19, 2022

1:00 P.M.

**MINUTES**

| Commissioners      | Staff                       | Public                                    |
|--------------------|-----------------------------|---|
| Josh Nordquist     | Mike Visher                 | Jim Faulds, NBMG Director via Zoom        |
| Mary Korpi         | Rob Ghiglieri               | Allison Combs, Governor's Office via Zoom |
| Art Henderson      | Sherrie Nuckolls            |   |
| Bob Felder         | Rebecca Ely via Zoom        |   |
| Nigel Bain         | Garrett Wake via Zoom       |   |
| Stephanie Hallinan | Anthony Walsh, DAG via Zoom |   |
| Randy Griffin      |                             |   |

**CALL TO ORDER**

1:00 PM

**COMMENTS BY THE GENERAL PUBLIC**

Mike Visher announced Rebecca Ely is resigning from Division of Minerals to pursue education, he thanked her for all her contributions to the Division, especially all the classroom presentations and outreach. She presented at 175 classrooms and outreach events since she started January 2, 2019. That's reaching over 21,000 people which is quite an accomplishment, she's also been instrumental in advancing the STEAM mining education course. Her last day is June 10, 2022, and we have some challenges to fill her shoes in Las Vegas especially with what's she's done in the classrooms and her activities and wiliness to create educational videos at home.

**Rebecca Ely:** Thanked Mike for the kind words and to the Commission on Mineral Resources and the entire team at NDOM. She stated she had a wonderful opportunity working with a great set of people and she's experienced a lot of professional and personal growth. One thing she's learned while working at NDOM is she's very passionate about education and educating people on Earth Science topics and mining in our community. Clark County is suffering from a massive teacher shortage, and she feels like that's a gap she can fill and bring her scientific knowledge into the classroom and continue providing minerals education.

**Josh Nordquist:** Becky, thank you for everything you've done for the Division, the State and we look forward to seeing you in other avenues. Best of luck.

**Rebecca Ely:** Thank you.

**AGENDA**

A. Approval of the Agenda

**Motion to approve the agenda made by:** Bob Felder

**Seconded by:** Randy Griffin

**Unanimously approved**

## II. MINUTES

A. Approval of the March 10, 2022, quarterly meeting minutes

**Motion to approve the March 10, 2022, minutes made by:** Mary Korpi

**Seconded by:** Nigel Bain

**Unanimously approved**

## III. NEW BUSINESS

### A. **NBMG Special Project Proposals**

Jim Faulds thanked the Commission for considering the requests and gave a brief description of the Report on the 3D Stratigraphy, Structure, and Fluid Flow Regime of the Soda Lake Geothermal Field in Fallon, Nevada, that was previously considered by the Commission at the March 11, 2021 meeting, with a total cost of \$40,000. Next, he explained the new project proposals including the Mining District Files: Digitizing for Universal Access with a budget estimate of \$35,400 plus UNR now has a 10% indirect charge on any projects funded by other State agencies.

**Rob Ghiglieri:** Did it change from 8% recently?

**Jim Faulds:** It was 0% if we go back 5 years, then briefly it was 8% and now it's 10%.

**Rob Ghiglieri:** Okay.

**Bob Felder:** Asked over what period of time did this (mining district files) backlog accumulate.

**Jim Faulds:** We have tons of mining district files, it's just a matter of once we came into the digital age so folks can access them through the website instead of coming into the building and looking at them. I think it's a combination of recent donations and also files that we haven't had time to digitize yet but have been in the office for decades, we've slowly been digitizing what we have since the mid 2000's.

**Bob Felder:** Thanks.

Jim Faulds then explained the Earth Science Week Field Trip Publications project with a budget estimate of \$18,000.

**Art Henderson:** If we don't fund this will these activities still continue?

**Jim Faulds:** The Earth Science field trip would still happen; we just wouldn't have the resources to take these and make some of the nifty products.

**Randy Griffin:** On an average how many people attend these field trips?

**Jim Faulds:** We've had over 100 on some of these field trips, because of the pandemic they didn't run for a year or two. The field trip this last spring I believe there was 70-75 attendees. These field trips were very popular in the past, one of our major forms of outreach and attracts all kinds of folks from the community. It's a great informative way to educate Nevada citizens about our fantastic geologic setting along with our wealth of mineral resources, geothermal resources and so on.

Jim Faulds mentioned the third project, Catalogue of Mineral Resources and Reserves, will need to hold off as the project lead, John Muntean, is busy with other projects at this time. They would like to reconsider it in a year or two.

**Josh Nordquist:** Asked if both the first two projects are potentially in FY24 and the third one will be FY23.

**Jim Faulds:** The third project would be in FY23-FY24.

Jim Faulds had to leave the meeting and thanked the Commission for considering their requests. Mike Visser let Jim Fauld know that the Commission will be hearing over the next hour or so and then they'll make discussions on funding any of those at the end of the meeting. Mike told Jim that he would update him with the results of the meeting.

**Josh Nordquist:** Unless there's any other discussion on these ones for now, we can discuss the funding later towards the end.

**Art Henderson:** My comment is when we came up with this idea of having these special reports, I think they're more reports instead of funding for field trips, I think the field trips are a good idea, but it doesn't necessarily fall into this category of what we try to achieve, especially reports, these reports are something that are hard copy documents that many people can review.

**Mike Visser:** Just to clarify that field trips are not a part of the funding it would just be the production of an enhanced version of what took place on the trip in a digital sense, interactive on the website. Story maps can be downloaded, and teachers can use that in the classrooms.

**Art Henderson:** So, they can go on the field trip virtually?

**Mike Visser:** Yes.

**Rob Ghiglieri:** Or they can go and use their phone as a guide.

**Mike Visser:** We use these story maps in the workshops for some of the field trips. They're very engaging and allow for the user to jump off and explore other components that's of their interests, it links to other websites, projects, publications. It's really kind of a classroom field trip component and then distilling down into segments and then you can do it virtually or download it on your phone and actually re-do it in the field on your own. They do have a lot of families that attend these field trips, and this would give them the ability to do it anytime they chose to. The field trips themselves, there's no funding for those.

**Josh Nordquist:** So, a report of the field trips?

**Mike Visser:** Yes, that is pertinent to the Division's mission.

**Art Henderson:** \$35,000 to digitize decades of data or \$18,000 to digitize a field trip?

**Mike Visser:** On the digitizing of the data set, so the Bureau has been the recipient for decades of boxes and boxes of scientific documents from geologists, not just here in Nevada. But with regards to Nevada geology projects as the files comes in, they're briefly inventoried, but until there is money set aside to scan, they just sit there. Then if a company says I want all the documents you have on the National district. I'll pay you \$20,000 to scan everything you've got, so I don't have to do it myself. The Bureau would then scan all the stuff for the National district but that's it. So, it's really as the funds come in and they're dedicated towards a certain area or even a certain person's collection. This is one of the projects that provides dividends on a number of fronts. We use it all the time for our abandoned mine lands program to do research on historic workings in an area. There's a lot of underground mapping that's been done by private individuals, companies and they're sitting in boxes and that would help us determine how we're going to close these things or what connections there are. Then also for explorers to understand what's been done before in this district so they don't have to reinvent the wheel. From a mineral potential standpoint and for resource management plans they become useful for the BLM and the counties to decide is there something valuable in this region that we may be losing if you set it aside for conservation. It's a really worthwhile project and provides a lot of information that will reap dividends for decades; it's one of our go-to resources. It's a low-cost high return investment from my perspective.

**Nigel Bain:** Are the Teacher's workshop field trips gaining that kind of interest?

**Mike Visser:** It depends on how it's served up but yes. That's where the Bureau does a good job trying to educate the public with resources and then getting them out. They do have field trip guidebooks for areas. We provide road logs for

the teachers' workshops where we have a bus of teachers, and we want to give them everything we can about everything they're seeing on the way to their destination. These have evolved into story maps. Since you're already pulling all of this together, let's put it all together in a nice visually informative but engaging digital format online that can be downloaded, and you can view it on your phone in the field.

**Art Henderson:** Can't you google these things right now and get the same information?

**Mike Visher:** No, it's not the same. Part of it is you have scientist's pulling information together and then making it understandable for the layperson. Making it easy for them to understand and so that it resonates with them. Is this something the Bureau could pursue on their own, absolutely.

## **B. 2022 AML Summer Intern Program Overview**

Sean Derby asked the 6 interns to introduce and tell a little about themselves. Sean then went over the goals and plans for the 14-week program including revisits, securings, and inventorying sites.

**Mike Visher:** It's going to be a lot of travel.

**Sean Derby:** Yes, it is.

**Josh Nordquist:** Thank you everyone for your dedication, please be safe out there and don't get lost.

**Randy Griffin:** What is a hard closure?

**Mike Visher:** Typically, what we're doing is temporary closures with fencing, so hard closures are backfill, foam closure, filling it with foam and then backfill on top, or a bat compatible gate or grate or cupula. The hard closures require a mini NEPA process, so archaeology has to be involved, biology has to be involved before the BLM field office can sign off on that. There's a lot of coordination with the BLM that has to occur in advance and sometimes the closure type dictates when you can do it. Typically, most of the bat compatible closures have to be done typically in the fall and some backfills as well. It's a slower process but hopefully it becomes more permanent.

Josh Nordquist explained the next three items on the agenda we are going to review a few new proposals then plan for the budget so that's when we'll go through the approval process. Commissioners, just for your information, we'll save any decisions on any of these items until the end.

## **C. The McCaw School of Mines Exhibit Proposal**

Garrett Wake gave a background of the McCaw School of Mines and went over an in-kind donation request of the exhibit proposal which is a life size projection system and a video to go along with it to portray aspects of modern mining in our society, see attached presentation.

**Mary Korpi:** Nigel and I were around when all of this took off, mining companies were behind that effort, and it never would have happened without the mining companies. I assume you still have reps from the mining companies on the board, are they supportive? Have you picked up that they think this is a good way to go? I suspect some of their support will be critical too, in as much as the filming of this because you're going to have access to the operations.

**Garrett Wake:** Yes, we do have board members who are a part of the mining industry, we have representation from Kinross on the board right now, we had a Newmont representative before the merger and hoping we can add to that. We haven't had a board meeting since this proposal has come up other than we've discussed at past meetings our #1 priority is adding to the mine and updating it and so this exact project to the entire board hasn't been pitched but it is part of what our Executive Director has been looking into in making upgrades. In terms of reaching out to the mines we've reached out to Nevada Gold Mines and plan to reach out to others and they were receptive, we haven't received a yes or no yet, but that was the first avenue we went down was to get some video of an underground drift and

obviously being the largest miner in that regard to the State, we reached out to them first so we're still waiting to hear back on if and when that would be possible.

**Mary Korpi**: I know that education is a real hot button for Nevada Gold Mines, I think it may take some time to work through that system, but I would not be discouraged, I'd keep going.

**Stephanie Hallinan**: I'm curious, when you were reaching out to folks who did the videos, Ken Eurick still visits the mining companies to create exactly these kinds of videos. He's out of Montana and I know he's still connected to doing this sort of thing and he's been doing them for about 20-30 years and he's a very good resource. We used him for our environmental video for training and such. We have some reclamation out at Bald Mountain which is really good, and he'll have footage of that so there's maybe a resource there with Ken.

**Garrett Wake**: We haven't and since this would be facilitated through the Division as an in-kind donation, we would have to send this project out to bid, if it was approved by the Commission. We'd definitely have the ability to include anyone we want on the distribution list, and I would really appreciate any contact information you have on that. Piggybacking on that a little more, we do anticipate there is video available, we really want to focus on the highest quality life like video that we can get. We really want to bring people into seeing the mine not just showing it on a TV but try to bring them into the environment. We also started doing public days about two years ago, one day a month and that's really opened a lot of doors for us as well. Instead of just the 4<sup>th</sup> grade students, which we have not decreased on that, we've added a public day and we receive probably 250 or so on average visitors a month just on one day. When funding becomes available, we plan on expanding that to an additional day or two or more if possible. We do get a significant amount of people that are just general public in southern Nevada that are interested in learning about mining, and I wanted to mention that as well.

**Randy Griffin**: You should try and contact Darren Wilson with Lhoist, Director of Human Resources, they put videos all the time on LinkedIn. I don't know what they can do for you, if you want to get some money or not, produce videos since they're in Las Vegas, Darren used to work at Kinross and he's sympathetic to this type of thing.

**Garrett Wake**: That would be fantastic, I'll follow up with you on that and again the hope is bringing this to fruition should be a big selling point for us in expanding going forward adding. Maybe eventually in time instead of having one video there we have 5 or 10 to choose from.

**Randy Griffin**: One last comment, Lhoist's videos have supported schools around the world as they're a worldwide company, whether they want to do it here in Nevada I don't know.

**Garrett Wake**: Thank you.

**Josh Nordquist**: Is the proposal to see if the Commission would pay for some or all or both, is there a preferred path here?

**Garrett Wake**: The two proposals, one is a non-3D and the other one is a 3D, we initially inquired about the 3D was a little more expensive. When you have 4<sup>th</sup> grade kids something like that could really add to the interest level of bringing people in, so we wanted to offer that if that amount of funding was available or able to be considered. Otherwise, I think the intent would be met very well at the \$50K funding level, just going with high-definition video. There may be routes in there also as many of you have mentioned to already attain footage that may have been captured recently and is high quality. We could maybe look towards other places to highlight reclamation, or jobs, or anything, we would look towards ideas and use that funding towards continuing develop content.

**Josh Nordquist**: You said you reached out to other industry stake holders for example, are there other commitments for this so far?

**Garrett Wake**: We've reached out to Nevada Gold Mines and there's not a commitment yet. But they have made a commitment to us in terms of funding other things so I think this is something that we will continue to work with them

on. Other than that, on this specific project, no, but on a broader view we have been reaching out on other projects to community partners and other mining companies to work on those. A virtual mine tour for example, we recently updated our website, so we've been hitting other upgrades as well this is kind of a multi-pronged approach, and this is the one that was developed for the Commission to consider.

**Nigel Bain:** I think you've got to get money out of Nevada Gold Mines, like Mary Korpi commented, McCaw has managed to stay ahead of itself with the backing of the different mining companies. I gather Kinross is still involved with it, that's a good thing.

**Garrett Wake:** Thank you, just to touch on what you mentioned there, Nevada Gold Mines is our largest financial contributor. They do a lot with us, and they have, over the past year, done a lot of in-kind work as well. They've contributed a few things to the property, and we do have stakeholders that are working on other projects. We will continue to work with them on this, as well as with other mines at getting access at the very least, and hopefully additional video and things like that.

**Stephanie Hallinan:** What's the proposed timeline on this that they'd like to get this going? Because you mentioned it hadn't been put in front of your Board yet, correct?

**Garrett Wake:** We will bring it up at the next Board meeting, but the Executive Director has the latitude to implement these things. It's not something we'll have to approve or disapprove; they are aware of it and our onboard, but we haven't met on it officially so the timeline in terms of McCaw. Correct me if I'm wrong Mike, but I think this is budgeted for the next biennium so we wouldn't be able to get started until at the very earliest after this fiscal year and probably later than that. I would hope sometime early next spring or into the summer we would have this completed.

**Stephanie Hallinan:** Great, thank you.

#### **D. Proposal to add GIS Analyst Position to Agency's FY25/25 Budget Submission**

Mike Visser discussed a proposal to add one FTE as an unclassified GIS Analyst as part of the agency's biennial budget submission.

**Nigel Bain:** Would you be moving Lucia into that new position?

**Mike Visser:** That's what I would like to do, yes and backfill her Field Specialist position.

#### **E. Proposal to Establish an AML Hard Closure Fund**

Mike Visser went over a summary of the proposal to create a new AML expenditure program at the Division pulling money from the reserves to make funding available for local partner government agencies so they could close AML features on their lands.

**Stephanie Hallinan:** You said there are some mechanisms in place, let's say we put out the \$200K and you get a lot of different counties, do you have the manpower to do that because you have a really good procedure that folks can follow then it's pretty efficient, etc. What are your thoughts on being ready if you get quite a few out there and then they can help accomplish our goal?

**Mike Visser:** I think we're going to be selective on how we broadcast it at first so that we're not overwhelmed, the hand holding side does take work. Once an entity does it and they learn the way they can do it themselves for the next go around. There are economies of scale if they do certain regions. Some of these are spread out a bit, even on our hard closures that we do now, we do clusters so you're mobilizing the equipment, the personnel for the area. A lot of times the biggest cost is in mobilization, and it depends on the closure type as well and the timing. I think we'll reach out to those who reached out to us or at least got back to us first.

**Nigel Bain:** What about the University of Nevada?

**Rob Ghiglieri:** Their two properties are patented mining claims; one in Washoe County, near Pyramid Lake and the other is in the Wonder District in Churchill County.

**Randy Griffin:** Since I've driven through Goldfield a dozen times, that landscape looks like a moon, I don't see anything on there in Esmeralda or Goldfield

**Mike Visher:** That's probably because those properties have been consolidated by just a few landholders.

**Josh Nordquist:** The intent is the funds are available and set aside, the counties or whoever the appropriate authority would come to the Commission with their proposals or go to the Division?

**Mike Visher:** Come to the Division.

**Josh Nordquist:** So, they can be reviewed for quality of the fix they want to perform?

**Mike Visher:** Right.

**Josh Nordquist:** And approve after that.

**Mike Visher:** So, we would do an interlocal with that entity to outline what each party is responsible for that they provide back to us in exchange for the money that's facilitating that. Depending on the amount, whether or not it goes to Board of Examiners, but first we'd have to create the capacity in a work program. If the Commission approved this, we'll go forward with a work program then at the next Commission meeting we will come forward with what the program looks like. We want to make it as easy as possibly for the entities to request the monies, if it's not easy and they have to jump through a lot of hoops, they're not going to do it and we don't want to do all the work either. This is not supposed to increase the work on us because we're maxed out.

**Bob Felder:** You mentioned the intent for, if the monies are approved, the Division could only handle do you think that's realistic?

**Mike Visher:** We'll see.

**Bob Felder:** Do the counties have any expertise at all? Anybody can hire a contractor but I'm just wondering if it's going to impact your staff more than anticipated.

**Mike Visher:** If they use our existing contractor, through a joinder, it's very easy because he already knows what needs to be done, so that would be the preferred route. That would be the easiest for them, as well as for us. Another option is if they had a partner, a company that wanted to help out and provide the equipment and operator at cost.

**Stephanie Hallinan:** You'd be already following the normal protocol for mine closure and that's already in place so that's guidance right there.

**Mike Visher:** Yes, in looking ahead if there was to be some Good Sam legislation this would be opened up to third parties and NGOs that wanted to request funding. And make a partner with the mining agencies to get the work done but without that Good Sam protection they will not move forward, but this program would be for features on private lands where the landowner can perform the work.

#### **F. Strategic Planning Session for Biennial Budget Fiscal Years 2024-25**

Rob Ghiglieri reviewed a PowerPoint on the upcoming biennium planning for the budget which included guidelines, steps, goals, and guidance, see attached. Rob asked for input from the Commission, he asked if the Commission wanted NDOM to continue attending trade shows such as AME, AEMA, PDAC, etc. Do you want us to expand the open data website and look for additional ways to educate the public? Continue funding for specific reports NBMG such as Major Mines, mining report, etc.? Do you want us to continue to increase AML hard closure contracted work and prepare for more federal dollar towards that, BIL section 40704? Are the performance Measures adequate? Do you see any more initiatives with CMR that need to be addressed in the next 2 years? That's what we're asking your input on.

Mike Visser went on to explain how important it is for the Commission to give feedback on the guidelines and goals for the Division at this meeting, especially the projects proposed during that meeting so NDOM can justify continuing the programs as is, or expanding, or reducing for any reason. Mike gave some examples questions to the commission for continuing the NBMG contracts, AML enhancements, Special Projects so they could be used to justify the building of NDOM budget. Mike also gave a background on the performance measures that the Division currently uses and asked if the Commission would like to see them changed.

**Josh Nordquist:** Maybe easier to ask the opposite question, is anyone opposed NDOM going to PDAC or AEMA?

**Stephanie Hallinan:** I'd be curious to hear what are your thoughts on the advantages to continue attending the Roundups, what are the advantages in your folks' eyes?

Mike Visser explained the benefits of attending these conferences and how they meet the Division's mission. By having a presence at these events, the Division is educating the public and answering questions on mining topics, providing, and disseminating materials and information on Nevada mining.

**Randy Griffin:** Where are these events at?

**Mike Visser:** PDAC is in Toronto always, AME Roundup is in Vancouver. Canada is the primary investment place.

**Rob Ghiglieri:** AEMA which is split, 2 years in Reno 1 year in Spokane and GSN is once every five years.

Mike Visser continued to discuss the NBMG contract and gave his reasoning's on why he believes the Commission should continue the contract. Mike continued by saying "The curation of cuttings it's in our statutes and regulations that fluid mineral companies provide those cuttings but there's no mechanism for funding for the Bureau to process those and that's part of that ask is for some funding for that. Until anything changes with the funding at the Bureau the products that we get, MI report, exploration survey, the maps are all very pertinent to educate the legislators and the public. It's very important to provide timely product to them to show there's mines everywhere, the impact of the industry is this big and it's not just the mining, it's the research and development of exploration and this is a quantification of that, that's all very important."

**Bob Felder:** if we propose to fund the AML hard closure program out of reserve does that create any optics on getting the budget approved? If these guys have a reserve balance, they can fund new projects and yet they're asking for a bigger budget in the next biennium, how do those two relate?

**Mike Visser:** That's a great question, when we talked to the Budget Analysts, they didn't seem to have any issues with the reserve. If you have a capacity and it's within your statutory authority to spend it then you're allowed to do that, we've heard nothing about changes to the reserve guidance.

**Bob Felder:** The agreement with the Bureau is to fund one of those projects every other year so if we fund Soda Lake the other three are no's?

**Mike Visser:** No, the Soda Lake would be one that could be done outside of the budget process but because it's not going to start until FY24, we will just put it in the budget. Our existing contract is for one special project to be determined by the Commission and that would be proposed at a future meeting probably be in the fall, as it wouldn't actually start until FY24 but the capacity to approve that project is a part of this process.

**Nigel Bain:** With the Bureau we had the Railroad Valley report, we funded that one I think but the Soda Lake was in the same year.

**Mike Visser:** We had three initial proposals, the Lithium report, Railroad Valley, and Soda Lake. We did the Lithium report as part of the contract and then we did the Railroad Valley as a special project report, that was all they could do at the time. Soda Lake is now back for consideration for FY24.

**Art Henderson:** That's great, we probably would have done all three, but they were too busy so that's why we delayed it.

**Josh Nordquist:** I recognize that the need for outreach is something that will continue as well, I wouldn't suggest changing but just note the state's growing and will continue to grow, we can't lose focus on the AML program, and the education program.

**Rob Ghiglieri:** That and including PDAC and AME.

**Josh Nordquist:** In my opinion, anything to get out there both for revenue side of the Division as well as the expense and employee development and any other aspects going along with being exposed to the industry outside of our state is worthwhile.

**Nigel Bain:** I agree with what Josh is saying and support to add manpower and getting everything in a digital format, probably the one thing we talked about a couple year ago was the drill core of these projects and the problem of storing it all. Somehow the state has to solve that problem, trying to preserve data.

**Mike Visser:** The Bureau is working towards that. They've applied for additional funding, and they are eventually planning on the expansion of the Gold Building out to the north so that they can house more cuttings and make them available for the public. Ormat's going to be providing more core to the Bureau again and it does create a bind if they don't have the space for it. If it sits out in a container in Stead, that doesn't do anybody any good, but it does create a workload on the Bureau when they bring it in, inventory it properly, scan and categorize it. Every they're going to do to make the information publicly available. They plan on growing that capacity and then it will be up to Emily and Jim to figure out how they can we make that even better.

**Josh Nordquist:** Back to PDAC, didn't we used to have PDAC spots specifically in the budget expenditures report?

**Mike Visser:** Yes, it is under Special Projects.

**Bob Felder:** I think the Division is really aligned with the Governor's core functions, I'm curious to see what some of the other departments are like.

**Mike Visser:** Not all of the agencies check all the boxes, but the programs have to fit in there somewhere within the budget building manual, you have to pick which program with which core function it goes to then you have to explain in text why.

**Randy Griffin:** So, we'll continue with PDAC and these other ones?

**Mike Visser:** Yes.

**Josh Nordquist:** Do we want to suggest any changes to budget decisions and goals set forth in the slide or suggest any changes from the Commission?

**Art Henderson:** Let's make a vote to support it, because they're very important to the Division to support the Governor's strategic planning core functions. We've spent a lot of time making sure we've done these correctly and I think you've done them correctly.

**Nigel Bain:** I wonder if you can even do it, you've got Garrett's request for some, can you put that into your budget?

**Mike Visser:** Yes, if it's something to be funded in FY24 or FY25 and it's something the Commission would like to see done then we would incorporate it into the budget build based on today's discussion and approval.

**Josh Nordquist:** As far as actions go, I think the only related other actions are the budget strategy which was what the presentation was, was the additional position.

**Mike Visser:** Well, so if you look at the budget decisions and CMR discussion we'd like some guidance on bullets 1 through 4, if you agree. Bullet 5 kind of speaks towards the Hard Closure fund establishments, bullet 6 is a separate

agenda item as well but then bullets 7 and 8, feedback on those would be appreciated now as a part of this agenda item. Does that make sense Tony?

**Anthony Walsh:** Yes, that does make sense, I do not have a problem with that.

**Josh Nordquist:** Went through all 8 bullet points, last slide of Rob Ghiglieri's presentation, and asked for comments.

Bullet 1 – Continued attendance at PDAC & AME. All commissioners agreed to continue.

Bullet 2- Expand the open data site and public education. All commissioners agreed to continue.

Bullet 3 - Continue to fund NBMG special reports., All commissioners agreed to continue.

Bullet 4 - Increase AML hard closures. All commissioners agreed to continue.

Bullet 5 - Postponed until after the financial update in Old Business.

Bullet 6 - Postponed until after the financial update in Old Business.

Bullet 7 - Performance Measures., All commissioners agreed they were adequate.

Bullet 8 - Are there any new initiatives the CMR would like to see addressed by NDOM over the next two years?

**Art Henderson:** I can't think of anything.

**Josh Nordquist:** We can say the Commission really doesn't have any new initiatives to add, but certainly continue to consider it.

**Josh Nordquist:** Should we circle back on the other items?

**Rob Ghiglieri:** Do you want to do old business A first?

**Mike Visher:** Yes.

**Josh Nordquist:** We'll move on to old business with the financial update then we'll circle back to the other possible action items that we discussed earlier.

#### **IV. OLD BUSINESS**

##### **A. Financial Update**

Mike gave a PowerPoint presentation of the fiscal year 2022 forecast revenue and expenditures along with 2021-2025 budgets and forecasts as of 5/10/2022, see attachment.

**Art Henderson:** Just out of curiosity is your lease going to increase or stay the same?

**Mike Visher:** It will likely increase but it will probably be on the order of 3% or 4% which is pretty typical.

Josh Nordquist started the discussions of the proposals brought forward by the Division, McCaw, and NMBG for potential approval. Chairman Nordquist first started with the addition of the GIS Analyst position to the FY24-25 budget submission. The Commission and Mike Visher discussed the difference between a GIS III and IV positions, how for budget reason NDOM budgets at the top of the range, and what the current top level for a field specialist position is.

**Motion to approve the addition of the GIS Analyst position to the FY24-35 budget submission made by:** Bob Felder

**Seconded by:** Mary Korpi

**Unanimously approved**

Next Chairman Nordquist discussed the Soda Lake Geothermal project proposed by NBMG. The Commission discussed that the project would be very beneficial and was almost approved before. A short discussion was held about the lead of the project, a PhD student and her commitment to the project and a slight increase in the cost of the project since it was initially introduced at a past meeting.

**Art Henderson:** Josh, is this a study that would be beneficial?"

**Josh Nordquist:** Yes, capturing historical perspective with these resources that has not been done at this level today, absolutely. I recognize that blind systems are what most new geothermal systems are going to be going toward and it will be important for new developers.

**Motion to approve the Soda Lake Geothermal Field report with NBMG made by:** Art Henderson

**Seconded by:** Nigel Bain

**Unanimously approved**

Next Chairman Nordquist discussed the Mining District Files and digitizing for universal access proposed by NBMG.

**Art Henderson:** How much do we them for them now? I forgot, for the cuttings and different things, it's only like \$20,000, right?

**Mike Visher:** Yes.

**Art Henderson:** So, they're never going to catch up unless they get an opportunity like this, it doesn't come along very often because the State's not going to give them money, UNR's not going to give them money so they'll always be behind if we don't help.

**Rob Ghiglieri:** This database is constantly used by the AML program. Anytime a public member or partner asks NDOM if we have any information on a particular mine, this is a first place I go to pull up information.

**Motion to approve the NBMG Mining District Files Digitizing Project in the amount of \$35,400 made by:** Nigel Bain

**Seconded by:** Mary Korpi

**Unanimously approved**

Next Chairman Nordquist discussed the Earth Science Field Trip Publications project proposed by NBMG.

The Commission discussed the project's public education and outreach aspect and how it is a benefit, but they were hesitant to support the project due to the fact they could not visualize what the actual product would be by the proposal. Art Henderson also discussed when the Commission first started funding NBMG special projects, that the idea was based on studies and reports, not field trip guides.

**Art Henderson:** For me, it doesn't fit the parameters that I think of as a special project. I think it's valid and fits with the education program, but to me it's just not the idea of a special project.

**Stephanie Hallinan:** If we don't fund this, will the field trips continue?

**Mike Visher:** Yes, the Bureau will continue to have the field trips.

There was no motion on this project and the Commission requested Mike Visher to ask NBMG to provide more details on this proposed project at the next meeting.

Next Chairman Nordquist discussed the McCaw School of Mines proposal. The Commission discussed various aspects of the project including 3D vs. 4K differences, staffing at the McCaw school, how the McCaw Board functions, previous funding towards McCaw, contracting techniques, and that they supported the project but were hesitant to fund the entire project. The Commission felt that they could fund up to the \$15k for the hardware and would be willing to put additional funding towards the project but only if McCaw was able to secure funding from other partners or industry.

**Motion to approve up to \$15K for hardware and services and is contingent on securing the remainder of the funds by December 2022 made by:** Bob Felder

**Seconded by:** Stephanie Hallinan

**Unanimously approved**

**Josh Nordquist:** Next is the discussion of the hard closure fund.

**Art Henderson:** Mike or Rob, what's the downside to this?

**Mike Visher:** I really don't see a downside.

**Rob Ghiglieri:** They're going to be providing their proposals, if it is successful, we're going to be getting additional sites closed on the ground that we don't have the time or resources to get to. We have the funding to do it.

**Josh Nordquist:** I think for me the bottom-line strategy is that it's providing motivation and funding to have others help out with abandoned mines and doing it in the easiest way that you guys can come up with.

**Art Henderson:** And you're requesting \$200,000 minimum?

**Mike Visher:** Yes.

**Art Henderson:** Do you think you can use more than \$200,000?

**Mike Visher:** Yes.

**Art Henderson:** Well then, we have enough if you think it's beneficial to spend more than \$200,000.

**Josh Nordquist:** We're approving the potential spending.

**Art Henderson:** Yes, that's right.

**Josh Nordquist:** The question is, let's say whatever amount we approve right now that would start soon and 3 months from now it's going well, is there anything that prevents us from getting more at that point in time?

**Mike Visher:** No.

**Bob Felder:** Who's decision is it to decide which sites?

**Rob Ghiglieri:** We'll reach out to these entities and provide them a list of sites and see if they're interested in pursuing a closure project and have them submit the project proposal to us.

**Art Henderson:** I think we should approve enough money to operate the program, it's your judgement to spend it all or not.

**Josh Nordquist:** We have to put a number on it.

**Art Henderson:** I say \$400,000. If we spend \$300,000 and other projects come up that make it economical since you're already in the area you should do it.

**Mike Visher:** \$400,000 will attract attention, people will be willing to put in some effort.

**Art Henderson:** I've been here 10 years and that's been our goals to close these abandoned mines and save lives.

**Motion to approve up to \$400,000 to create the Hard Closure Fund from our current reserve and the progress will be reported at subsequent Commission meetings made by:** Mary Korpi

**Seconded by:** Bob Felder

**Unanimously approved**

## **B. Update on Status of Previously Approved AML Enhancement/Special Projects**

Rob gave an update on the status of previously approved AML enhancements and special projects, see attachment.

**Art Henderson:** Can we get photos of the billboards somehow?

**Rob Ghiglieri:** Yes, we haven't approved them yet.

## **COMMISSION BUSINESS**

### **A. Review of staff monthly activity reports**

Mike explained the reports are in more detail than the executive summary provided monthly to the Commission so if there are any questions, this is the time to ask about those. There were no questions asked by the Commission.

**B. Set date for next Commission meeting**

The next meeting will be Wednesday, August 10, 2022, at 1:00 p.m. location TBD.

**COMMENTS BY THE GENERAL PUBLIC**

Nigel Bain mentioned that the Mountain Pass mine near Las Vegas is working on an agreement with General Motors to provide rare earth elements for manufacture of magnets at a plant in Texas. Nevada is missing a great opportunity for such a plant to be here instead.

**ADJOURNMENT**

4:59 p.m.

DRAFT

**Report on the 3D Stratigraphy, Structure, and Fluid Flow Regime of the Soda Lake Geothermal Field, Fallon, Nevada (Total Cost: \$40,000).**

**Introduction:** From ~2010 to 2018, NBMG supported an in-depth analysis of the stratigraphic setting and structural controls by Ph.D. student Holly McLachlan on geothermal fluid flow at the Soda Lake geothermal field (McLachlan, 2018), a currently producing ‘blind’ geothermal system near Fallon. Main objectives were to: 1) define the stratigraphic setting and structural framework, 2) generate a detailed 3D geologic model of the field area, and 3) model fluid flow in context with the geologic model. This study was undertaken to improve our understanding of basin-hosted, blind geothermal systems with the intent of facilitating development of similar systems throughout the region. Blind systems likely comprise the majority of geothermal resources throughout the Basin and Range province, and many lie buried under thick accumulations of sediments in the broad basins that make up >50% of the province. The Soda Lake field is one of the more deeply buried known systems in this region and – as is common – the structural controls on fluid flow cannot be discerned at the surface. However, the Soda Lake field has produced electricity for 30+ years, and a wealth of subsurface data has been acquired in the area. These rich datasets provided a foundation for a detailed model of the geologic setting of the Soda Lake system.

**The study:** Initially, the stratigraphic framework was defined from analysis of cuttings, borehole logs, and dating of key igneous units. Three major divisions were identified: 1) ~900-1100 m of basin-fill sediments; 2) ~1 km of Miocene bedrock, dominantly mafic lavas interbedded with subordinate tuff and sedimentary rock; and 3) a basement assemblage of Triassic-Jurassic metamorphic rocks and Jurassic-Cretaceous granite. Pursuant to this, a comprehensive 3D geologic model of the field was constructed from: 1) the new stratigraphic model, 2) bedding attitude estimates from seismic surveys and borehole logs, and 3) a fault framework derived from well data and geophysical surveys. The fault framework had been modeled in previous studies of seismic reflection and borehole data. A well-constrained set of fault picks was chosen as the initial input to the 3D model. A stratigraphic model derived from lithologic intercepts and bedding attitude data was then built around the fault framework to generate a complete geologic block model. In the final phase of the study, borehole temperature data were integrated with the block model and flow data to identify the main upwelling and outflow conduits.

**Modelling results:** The Soda Lake field is dominated by a series of E-dipping ( $65^{\circ}$ - $75^{\circ}$ E),  $\sim$ N $5^{\circ}$ - $10^{\circ}$ E-striking normal faults that bound a series of W-tilted ( $\sim 35^{\circ}$ W) half-grabens. Tilt-fanning of strata suggests that extension began ~13 Ma and slowed significantly after ~5 Ma. However, the largest faults appear to have accommodated minor extension into the late Pleistocene. Three to five closely spaced E-dipping, northerly-striking faults define the west side of a central half-graben, which hosts all producing wells at the field. The likely primary conduit for upwelling at Soda Lake is proximal to a small step-over in the most well-defined and easternmost of these faults, which forms the inner boundary of the central graben.

**Proposal:** This work was funded by a DOE ARRA grant awarded to Magma Energy in 2010. The original grant did not allow for full review and publication. NBMG proposes to organize, fully review for quality assurance, and publish a consolidated version of the dissertation on the structural settings and fluid flow at the Soda Lake field. A peer-reviewed NBMG report will be produced, and the data will be released through the NBMG open data site. This work will facilitate new geothermal exploration and development in Nevada. This project will be completed by Holly McLachlan, NBMG cartographic staff, and the NBMG geothermal data manager under the supervision of NBMG Director Dr. Jim Faulds. If approved, the Project would be completed in FY2024.

## **Mining District Files: Digitizing for Universal Access**

**Project Lead: Emily O'Dean**

Each year, the Great Basin Science Sample and Records Library (GBSSRL) receives donations of maps, reports, articles, photographs, assays, productions reports, and information of all aspects of mining in Nevada, which the GBSSRL accession into its Mining District Files of Nevada Collection. The GBSSRL digitally preserves these documents by carefully reading and evaluating each document, creating searchable standardized digital metadata, scanning the materials, making each digital object accessible, and finally making the data available on the internet via web applications. These documents are commonly accessed by industry professionals, researchers, and members of the public.

The GBSSRL currently has a backlog of approximately 300 boxes of donated files that have not been digitized. To process these documents as efficiently as possible, the GBSSRL proposes utilizing the Digital Services unit of UNR to scan the documents. The Digital Services can scan up to 120 pages per hour, regardless of document size and format. Students and staff at the GBSSRL will accession, prioritize, enter metadata, make documents accessible, and update web applications. The Digital Services department has agreed to partner on this project, if funded, at a rate of \$10/hour with a commitment of 48 weeks at 20 hours of labor per week. The GBSSRL plans to hire a soft-funded Letter of Appointment in FY23 to assist with various data preservation activities, and proposes that this individual lead the preservation effort of these documents, including metadata entry and adding accessibility components to each digital file.

We anticipate digitizing over 100,000 pages. Depending on file length (some files are a single page while others are hundreds of pages), this project will add thousands to tens of thousands of files to the Mining District Files of Nevada online collections.

**Proposed timeframe:** August 1, 2023 to June 30, 2024.

**Budget estimate: \$35,400**

- GBSSRL staff label, re-box as necessary, and prioritize documents
- \$1,600 - \$40/hour including fringe, 40 hours total
- GBSSRL LOA metadata entry, document accessibility
- \$23,400 - \$30/hour including fringe, 15 hours per week, 52 weeks
- Web application update
- \$800 – \$40/hour including fringe, 20 hours total
- Digital services scanning fee: \$9,600 - \$10/hour, 20 hours per week, 48 weeks

## **Earth Science Week Field Trip Publications**

**Project Lead: Rachel Micander**

Each year the Nevada Bureau of Mines and Geology leads an Earth Science Week field trip in October that is open and free for the general public to attend. These field trips generally align with the Earth Science Week theme that is identified by the American Geosciences Institute. NBMG field trips are well attended and paper guidebooks are published and released in a simple format for anyone to view and participate in following the actual event in October. The Nevada Bureau of Mines and Geology proposes converting one existing Earth Science Week draft field trip guide (2021) and two future (2022, 2023) field trip guides to a visually appealing print format (available for purchase from NBMG) and a digital format complete with audio recordings/podcast. The purpose of the digital format and audio recordings is to enable people to take these tours on their own at any time, without having to attend the physical earth science week field trip. It would also provide a means for people who are unable to physically attend these trips to access many of Nevada's unique resources and landscapes. Additionally, the 2021 field trip guide has not yet been published. These funds would not only help to finalize publication of the 2021 field trip guide, and fund the 2022 and 2023 Earth Science Week field trips, but also provide a pilot project in which NBMG could assess the impacts of these guidebooks and enable more people to explore Nevada's natural resources and understand the importance of mining and mineral resources. The three proposed field trip guides for this project are listed below.

- 2021: A Tale of Three Rivers and the Rapidly Evolving Landscapes of Western Nevada. Focused on the importance of water in the high desert, historic mining, and current mining in and around Yerington, and geothermal energy production at Wabuska. 2021 theme: "Water Today and for the Future".
- 2022: **Proposed** geothermal-focused field trip to align with the 2022 Earth Science Week field trip theme "Earth Science for a Sustainable World". Field trip will take place on 10/15/2022.
- 2023: Future mineral resource focused field trip. No theme has been identified yet by the American Geosciences Institute.

**Proposed timeframe:** July 1, 2022 to June 30, 2023

**Budget estimate: \$18,000**

## **Catalogue of Mineral Resources and Reserves**

**Project Lead: John Muntean**

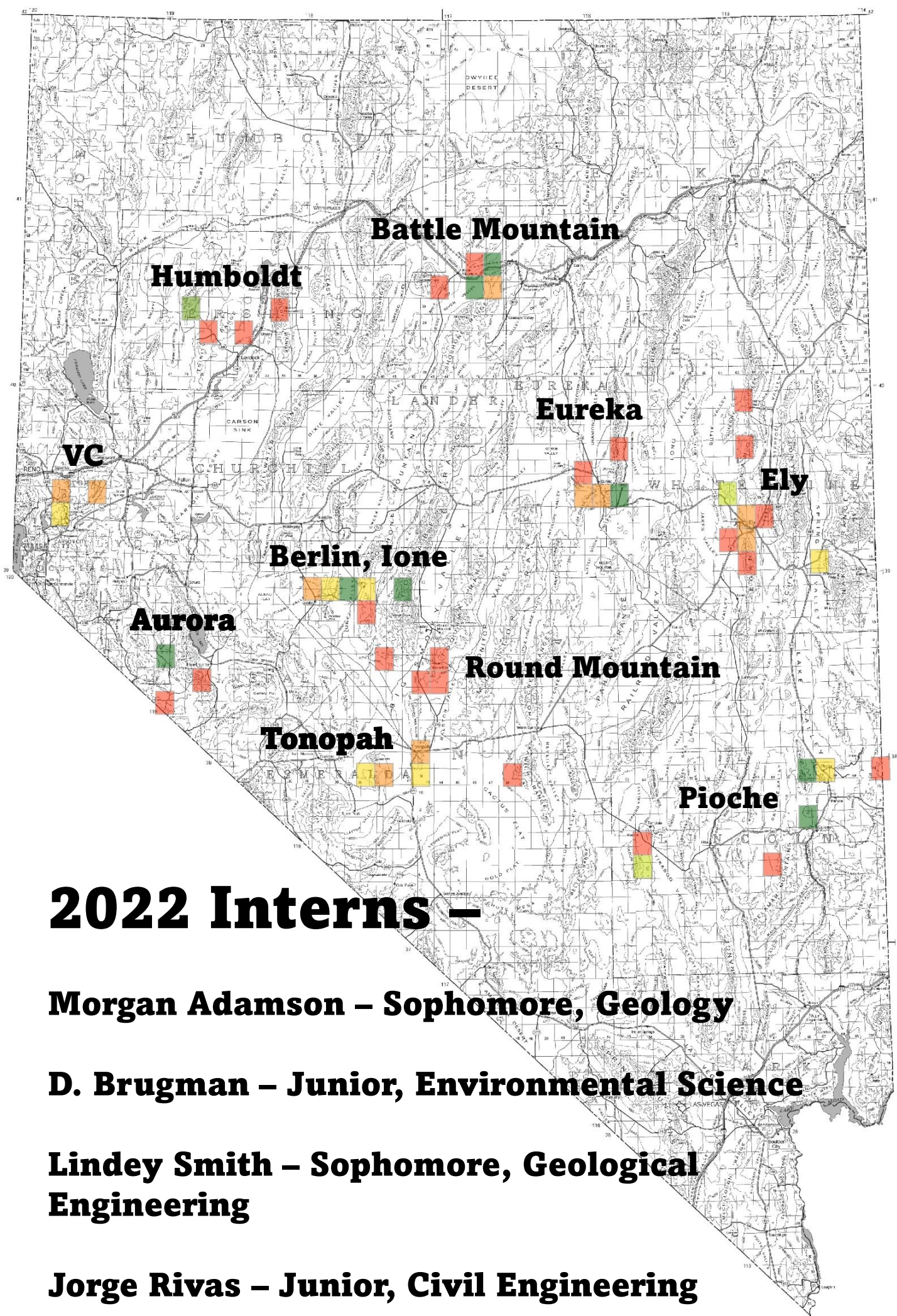
Starting in 1979, NBMG has issued annual reports that describe the mineral, oil and gas, and geothermal activities and accomplishments in Nevada. These reports include production, reserve, and resource statistics of mineral properties throughout the state. Although these reports nicely record annual activities, they have yet to be synthesized into any long-term reviews or assessments.

**Proposal:** Compile catalogue documenting resources and reserves of mineral properties in Nevada and release as a publicly available database through the NBMG open data portal.

**Timeframe:** July 1, 2022 to June 30, 2024.

**Budget estimate: \$35,000**

# 2022 Summer Field Season



## 2022 Interns –

**Morgan Adamson – Sophomore, Geology**

**D. Brugman – Junior, Environmental Science**

**Lindey Smith – Sophomore, Geological Engineering**

**Jorge Rivas – Junior, Civil Engineering**

**Ab Clayson – Sophomore, Mine Engineering**

**Warren Austin – Sophomore, Mine Engineering**



May 5, 2022

Nevada Commission on Mineral Resources  
Attn: Chairperson Josh Nordquist  
400 W. King St., Suite 106,  
Carson City, Nev. 89703

To the Nevada Commission on Mineral Resources,

The McCaw School of Mines Foundation respectfully requests the Nevada Commission on Mineral Resources' approval to allocate funding for the creation of a modern mining multi-media projection exhibit. Educating the public on the diversity of career paths, including technical trades and college degrees, the safety methods used to protect miners, and the environmentally considerate yet effective processes are some of our goals of this exhibit.

The McCaw School of Mines, located on the campus of Gordon McCaw Steam Academy in Henderson, Nevada, is a non-profit educational foundation formed under IRS 501(c)3. Serving our community for over 25 years, McCaw School of Mines has welcomed over 100,000 elementary students on field trips.

We are seeking to update our antiquated exhibits showing "modern" mining. We have reached out to our industry stakeholders and community partners to assist us in this effort. We understand that you have considered in-kind donations similar to this in the past and would like to offer a proposal for your consideration to update one of our mining exhibits.

Please find a short exhibit proposal attached to this letter. We strongly believe that the following proposal, if brought to fruition, will enable us to properly convey to the Nevada public the skills, technology, and processes used in 21st century mining.

If you have any questions, please feel free to contact me at any time. Thank you for your considerations.

Respectfully submitted,

Philip Luna  
Executive Director

Garrett Wake  
**Chair**

Jeffrey Sarmiento  
**Vice-Chair**

Janet Dobry  
**Secretary**

Cindy Creighton  
**Treasurer**

Philip Luna  
**Executive Director**

P.O. Box 91208 Henderson, NV 89009

702.799.0544 McCawMines.org   @TheMineExperience

## MODERN MINING MULTI-MEDIA PROJECTION PROJECT

The Vision of the McCaw School of Mines is to educate Nevada's youth and the broader public on the importance of mineral resources.

Our Mission is to provide free or low-cost field trips for Nevada's students and host public days which serve to educate, enrich and entertain all who visit the McCaw School of Mines on the impact mineral resources have on our lives.

We believe that making the connection between mineral use and the process by which minerals are obtained (mining) is critically important. Our efforts focus on making this connection with all who visit. We execute our Mission and exemplify our Vision and Purpose through providing information on Nevada's rich mining history, mineral uses in society, historic versus modern mining practices, and the many STEM careers available in today's technology-focused mining industry.

It is becoming increasingly difficult to obtain, install and maintain ever changing equipment and exhibits that display modern mining experiences. Our response to this challenge is to install multi-media systems to showcase modern mining experiences rather than having the actual equipment and machines on-site. With multi-media experiences, as the mining processes and equipment change we can update our presentations.

The 3-D multi-media projection project being conceived would include:

- Projection Unit (front or rear projection screen based on final installation site decision)
- Up to 9' square projection screen
- Audio support system
- Support hardware systems
- 3-D video footage with accompanying audio tracks
- Red/Blue 3-D participant glasses (reusable)

The initial video content would showcase on-site modern mining techniques in the areas of drilling, blasting, mucking, ground support, milling/processing and reclamation.

The location for the first multi-media projection unit would be in one of our existing rooms inside our simulated underground mine as shown below. These walls can accommodate a video screen of up to 9 feet.



The estimated costs for the multi-media projection project would be:

Hardware & Services:

|                                     |          |
|-------------------------------------|----------|
| • Projection Unit                   | \$ 5,000 |
| • Up to 9' square projection screen | \$ 3,000 |
| • Audio support system              | \$ 3,500 |
| • Support hardware systems          | \$ 1,500 |
| • Voiceover Services                | \$ 2,000 |
| Sub-total                           | \$15,000 |

Production Options:

|  |          |
|--|----------|
| • 5-minute video and audio package in 4k or higher res<br>or | \$35,000 |
| • 5-minute video and audio package in 3-D                    | \$60,000 |

Total Project Options:

|   |          |
|---|----------|
| Total estimated Standard Video total project cost | \$50,000 |
| Total estimated 3-D Video total project cost      | \$75,000 |

## **Agenda Item III. D.**

### **Proposal to add GIS Analyst Position to Agency's FY24/25 Budget Submission**

Due to increased utilization and the embedded nature of Geographic Information Services (GIS) throughout the Division's many programs, we are proposing to add one FTE as an unclassified GIS Analyst to be based in the Carson City office. This particular staff addition can only occur through the biennial budgeting process as part of the agency's budget submission to the Governor's Finance Office for consideration as part of the Governor's Recommended Budget to be considered by the Nevada Legislature during the 2023 Legislative Session.

Our current lead GIS person, Lucia Patterson, is classified as a Field Specialist, but since starting in September of 2014 the Division has rapidly increased its incorporation of GIS and her role has evolved into predominantly a GIS Specialist in support of the AML, Fluid Minerals, Public Outreach, and Mining Registry programs. The future of GIS is growing exponentially (see attachment) and will remain critical to all our programs. She is currently at the legislatively approved salary cap for the Field Specialist position. Our proposal would be to create a new GIS Analyst position benchmarked to the salary range for a classified GIS Analyst III position (Grade 38), currently \$58,380 - \$87,320 (Employee/Employer Pay Contribution schedule). This would represent a 21.8% increase to existing Field Specialist salary cap. For reference, a description of the four classified GIS Analyst positions and requirements is attached.

If legislatively approved, the position can be filled no sooner than October 1, 2023. If the position was filled through an internal transfer, it would result in a vacancy in a Field Specialist position, which when filled would be dedicated almost exclusively to the AML program as it continues to grow.

The annual financial impact for salary and benefits paid by the agency would be approximately \$114,000 per year, though 25% less in the first year due to start date. Additional costs on a per FTE basis, for IT, travel, office-related are estimated at \$31,000 per year. No significant changes to the office floorplan are anticipated.



**STATE OF NEVADA**  
**Department of Administration**  
**Division of Human Resource Management**

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**CLASS SPECIFICATION**

| <u>TITLE</u>        | <u>GRADE</u> | <u>EEO-4</u> | <u>CODE</u> |
|---------------------|--------------|--------------|-------------|
| GIS ANALYST IV      | 40           | B            | 6.343       |
| GIS ANALYST III     | 38           | B            | 6.342       |
| GIS ANALYST II      | 36           | B            | 6.341       |
| GIS ANALYST I       | 33           | B            | 6.340       |
| GIS ANALYST TRAINEE | 31           | B            | 6.339       |

**SERIES CONCEPT**

GIS Analysts are responsible for designing, implementing, supporting and administering all aspects of a department's and/or division's enterprise geographic information system.

Develop and maintain the Geographic Information Systems (GIS) which may include any of the following: maintenance of the statewide road network, calibrated linear referencing methods and associated GIS data layers and/or maintenance of the enterprise GIS servers, databases, associated data layers, web maps and other GIS data products as needed; ensure agency business units' ability to integrate and synchronize business data.

Plan, design, modify, implement and administer multiple spatial databases; develop and enforce administration procedures and security standards; facilitate and monitor multi-user versioned editing and viewing workflows; design, implement and monitor spatial database security, performance and availability; create database objects, user and roles; create and maintain spatial database replication environment, schedule and monitor replica synchronizations; test and perform software updates.

Install, configure and administer GIS Server application software; create, optimize, publish and monitor multiple web map, feature, geoprocessing, and search services on the intranet and internet; document web service data source dependencies.

Develop, implement, document and enforce GIS server-related administration procedures and security standards; monitor system utilization and responsiveness, and tune server configurations to enhance performance and ensure availability of published services; test and perform software updates; collect user requirements, design, write, test, deploy and maintain multiple statewide custom GIS software applications using multiple programming languages; develop and enforce GIS application-related operational procedures and security standards; adhere to software development best practices, maintain code in shared source code repositories, and maintain technical currency with coding techniques and relevant Information Technology (IT) and GIS technologies.

Analyze user requirements, existing business workflows, policies, regulations and statutes to develop and implement enhanced GIS-based solutions and workflows; determine project objectives by analyzing user needs through consultation with end users, technicians, analysts, management and vendors; review available hardware and/or software tools to choose appropriate implementation platform; identify required sequencing of steps and coordination with other personnel; execute project steps and ensure that project deliverables meet customer requirements; provide technical support to end users in order to resolve software and database related issues.

Design, implement and maintain GIS datasets and perform quality assurance/quality control procedures and corrections; perform spatial analyses and interpret and communicate analytical results; use Global Positioning System (GPS) hardware and software to collect and validate data in the field; may utilize Unmanned Aerial Systems (UAS) consisting of hardware, to include Unmanned Aerial Vehicles (UAV), to collect data in the field and use associated software to post process and validate collected data; produce digital and printed cartographic products using GIS software.

|                     |    |   |       |
|---------------------|----|---|-------|
| GIS ANALYST IV      | 40 | B | 6.343 |
| GIS ANALYST III     | 38 | B | 6.342 |
| GIS ANALYST II      | 36 | B | 6.341 |
| GIS ANALYST I       | 33 | B | 6.340 |
| GIS ANALYST TRAINEE | 31 | B | 6.339 |

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### SERIES CONCEPT (cont'd)

Coordinate and conduct formal and informal training sessions to educate end users on the usage of off-the-shelf and custom GIS software; coordinate with internal and external entities to disseminate and share GIS data, and collaborate on GIS projects.

Perform related duties as assigned.

\*\*\*\*\*

### CLASS CONCEPTS

**GIS Analyst IV:** Under administrative direction, performs duties outlined in the series concept and, in addition, manages GIS functions for the department/division and supervises subordinate GIS Analyst III positions to include performance evaluations, work performance standards, work assignment and review, scheduling, training and discipline and may supervise technical and administrative staff as assigned. The incumbent is responsible for ensuring the provision of timely, efficient, and cost-effective GIS products and services including the development and maintenance of GIS applications, tools, enterprise GIS databases, and linear referencing systems as needed to meet operational and decision support needs.

Manage the design, development, enhancement and delivery of GIS products and services to meet on going and ad hoc business and information needs; manage development and maintenance of geospatial data layers and databases; manage and may participate in the design and development of GIS applications and tools to automate processes and facilitate analyses and reporting; coordinate the delivery of services and sharing of data with other departments and outside entities; research alternatives and recommend appropriate, cost effective technology solutions.

Oversee and participate in the design, development, integration and maintenance of GIS database architectures, data layers and databases; perform highly complex analytical projects, including spatial and other analyses and forecast modeling; analyze, research, develop, implement and maintain processes for enhancing the utilization of GIS technologies and solutions to support internal business requirements and GIS initiatives; work with staff in the planning, design, development, configuration, testing, implementation and maintenance of large-scale GIS applications and web portals, backend processing modules and associated data layers and databases; develop, implement and monitor work plans to achieve goals and objectives.

Analyze and evaluate technology solutions to ensure their consistency and integration with technology standards; participate in developing enterprise GIS policies, standards and procedures; serve as an expert resource and provide advice to agency staff and other departments or agencies on complex GIS technical issues; may serve on steering committees and advisory groups to foster cooperation and ensure consistent practices for storage, sharing, maintenance and utilization of geospatial data; write reports and prepare custom maps and other GIS products.

Participate in the preparation and evaluation of proposals, bids, contracts and service agreements for GIS software, equipment and consulting services; may administer contracts; develop or assist in the development of the GIS budget; monitor expenditures against budget; participate in the development, implementation and evaluation of goals and objectives; supervise and oversee development, implementation and evaluation of programs, work processes, systems, policies and procedures to achieve annual goals, objectives and work standards; serve as a technical expert to departmental, district, and divisional managers and advises on the design and uses of GIS technologies and products that will improve business process efficiency and enhance support for decision and policy making. This is the managerial level in the series.

**GIS Analyst III:** Under general direction, incumbents perform the full range of duties outlined in the series concept and function as technical expert and project manager over either: design, development, testing, implementation and maintenance of large-scale or highly complex departmental and/or divisional GIS software

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## CLASS CONCEPTS (cont'd)

### **GIS Analyst III:** (cont'd)

applications, tools, and backend processing modules; **OR** data management projects, and associated data layers and databases. Incumbents review GIS products for accuracy, completeness and aesthetics and for compliance with customer requirements; evaluate GIS technologies and solutions; develop policies, standards and procedures; develop plans and approaches to meet project objectives; oversee or perform complex technical work associated with projects and ongoing assignments; guide and mentor other GIS professionals and/or those utilizing GIS; develop training materials and conduct training for GIS professionals and/or other staff as assigned; and supervise a staff of lower level GIS Analysts. This is the supervisory level in the series.

**GIS Analyst II:** Under general supervision, incumbents perform the full range of duties outlined in the series concept and participate in design, testing, implementation and maintenance of GIS software applications, tools, data management projects, and associated data layers and databases. Incumbents perform spatial analyses such as buffering, spatial overlays and distance calculations using established methods and procedures; assist in the evaluation of GIS technologies and solutions and the development of GIS policies, procedures and standards. This is the journey level in the series.

**GIS Analyst I:** Under close supervision, incumbents continue to receive training in performing the duties described in the series concept. This is the continuing trainee level in the series and progression to the next level may occur upon meeting minimum qualifications, satisfactory performance, and with the recommendation of the appointing authority.

**GIS Analyst Trainee:** Under close supervision, incumbents receive training in performing the duties described in the series concept. This is the trainee level in the series and progression to the next level may occur upon meeting minimum qualifications, satisfactory performance, and with the recommendation of the appointing authority.

\*\*\*\*\*

## MINIMUM QUALIFICATIONS

### **INFORMATIONAL NOTE:**

- \* Certification as a Geographic Information Systems Professional (GISP) from the GIS Certification Institute is equivalent to one year of work experience.

### **GIS ANALYST IV**

**EDUCATION AND EXPERIENCE:** Bachelor's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and four years of professional GIS experience which included GIS/GPS data collection, analysis and validation; GIS software application development; and/or cartographic design. Two years of this experience must have also included project management in one or more of the following: spatial database development and management, GIS application development, and/or GIS application server administration; **OR** an Associate's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and five years of professional GIS experience as described above; **OR** graduation from high school or equivalent education and six years of professional GIS experience as described above; **OR** one year of experience as a GIS Analyst III in Nevada State service; **OR** an equivalent combination of education and experience as described above. (*See Informational Note*)

**ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES** (required at the time of application):

**Detailed knowledge of:** capabilities and functionality of at least one major GIS software suite; enterprise

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## MINIMUM QUALIFICATIONS (cont'd)

### GIS ANALYST IV (cont'd)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at the time of application): (cont'd) database management systems; project management techniques and/or software application development methodologies; two or more general purpose programming or scripting languages; critical spatial and non-spatial datasets. **Working knowledge of:** GIS system architecture design and planning; multiple enterprise database management systems and/or linear referencing and dynamic segmentation. **Ability to:** develop and prioritize task lists and resolve problems; supervise and mentor assigned staff; *and all knowledge, skills and abilities required of the lower levels.*

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):  
**Detailed knowledge of:** State and departmental regulations and policies concerning information security, purchasing and personnel administration; critical departmental spatial and non-spatial datasets and their relationship to the enterprise GIS system; application of linear referencing and dynamic segmentation techniques to GIS data; major state and federally mandated reporting requirements that include or rely upon GIS data.

### GIS ANALYST III

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and three years of professional GIS experience which included GIS/GPS data collection, analysis and validation; GIS software application development; and/or cartographic design. One year of this experience must have also included one or more of the following: spatial database development and management, GIS application development, and/or GIS application server administration; **OR** an Associate's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and four years of professional GIS experience as described above; **OR** graduation from high school or equivalent education and five years of professional GIS experience as described above; **OR** one year of experience as a GIS Analyst II in Nevada State service; **OR** an equivalent combination of education and experience as described above. *(See Informational Note)*

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at the time of application):  
**Detailed knowledge of:** structured query language (SQL); spatial data validation techniques; spatial topologies; GIS analysis tools; multi-user GIS editing workflows. **Working knowledge of:** linear referencing and dynamic segmentation and/or server and web-based GIS technologies; mobile GIS technology and GPS data collection; enterprise spatial databases and database security; map services. **Ability to:** create GIS software add-ins and stand-alone programs or web mapping applications or write moderately complex scripts to automate GIS processes; install and administer spatial databases; install and administer GIS application server software and publish map services; integrate non-spatial data with the enterprise linear referencing system and/or related GIS systems and dynamically segment data; automate routines to make corrections to improve database quality; develop geospatial data structures to model complex interrelated geographic features; lead highly complex GIS development and maintenance projects; manage and perform highly complex analytical projects; serve as an expert resource to other GIS specialists and end users; *and all knowledge, skills and abilities required at the lower levels.*

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):  
*(These are identical to the Entry Level Knowledge, Skills and Abilities for GIS Analyst IV.)*

### GIS ANALYST II

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university in geographic

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## MINIMUM QUALIFICATIONS (cont'd)

### GIS ANALYST II (cont'd)

#### EDUCATION AND EXPERIENCE: (cont'd)

information systems, geography, cartography, computer information systems, or a closely related field and two years of professional GIS experience which included GIS/GPS data collection, analysis and validation; GIS software application development; and/or cartographic design; **OR** an Associate's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and three years of professional GIS experience as described above; **OR** graduation from high school or equivalent education and four years of professional GIS experience as described above; **OR** one year of experience as a GIS Analyst I in Nevada State service; **OR** an equivalent combination of education and experience as described above. *(See Informational Note)*

#### ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

**Detailed knowledge of:** basic GIS software functionality, spatial relationships; theories, principles, and concepts related to GIS technology; geoprocessing and editing tools, and spatial data validation techniques; GIS analysis tools. **Working knowledge of:** spatial topologies; structured query language (SQL); cartographic principles, map projections and coordinate systems. **General knowledge of:** map services; enterprise spatial databases; multi-user GIS editing workflows; linear referencing and dynamic segmentation; mobile GIS technology and GPS data collection. **Ability to:** collect user requirements and design GIS datasets/databases that includes data validation and quality assurance mechanisms; solve moderately complex GIS problems; differentiate between common GIS- and IT-related problems; write basic scripts to automate GIS processes; effectively train and mentor low-level users and end users in the use of GIS Software; solve moderately complex GIS software problems and assist end users with second-level technical support; perform moderately difficult spatial analyses; *and all knowledge, skills and abilities required at the lower levels.*

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):  
*(These are identical to the Entry Level Knowledge, Skills and Abilities required for GIS Supervisor.)*

### GIS ANALYST I

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and one year of professional GIS experience which included GIS/GPS data collection, analysis and/or validation; GIS software application development; and/or cartographic design; **OR** an Associate's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field and two years of GIS experience as described above, to include at least one year of professional GIS experience; **OR** graduation from high school or equivalent education and three years of GIS experience as described above to include at least one year of professional GIS experience; **OR** an equivalent combination of education and experience as described above. *(See Informational Note)*

#### ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

**Working knowledge of:** basic GIS software functionality; spatial relationships; theories, principles, and concepts related to GIS technology. **General knowledge of:** basic cartographic principles, map projections and coordinate systems; sources of information and research techniques; problem-solving methods. **Ability to:** create a map layout suitable for printing, edit GIS data, perform spatial and attribute queries, label features on a map; solve simple GIS software problems and assist end users with first-level technical support; understand and utilize computer systems and GIS software; make mathematical and statistical computations including addition, subtraction, multiplication, division and algebra; establish and maintain effective working relationships with others; *and all knowledge, skills and abilities required at the lower level.*

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### MINIMUM QUALIFICATIONS (cont'd)

#### GIS ANALYST I (cont'd)

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):  
*(These are identical to the Entry Level Knowledge, Skills, and Abilities required for GIS Analyst II.)*

#### GIS ANALYST TRAINEE

EDUCATION & EXPERIENCE: Bachelor's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field; **OR** an Associate's degree from an accredited college or university in geographic information systems, geography, cartography, computer science, computer information systems, or closely related field and one year of paraprofessional GIS experience which included GIS/GPS data collection, analysis and/or validation; GIS software application development; and/or cartographic design; **OR** graduation from high school or equivalent education and two years of experience as described above; **OR** an equivalent combination of education and experience as described above. *(See Informational Note)*

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

**Working knowledge of:** theories, principles and concepts related to Information Technology (IT) or GIS technology. **General knowledge of:** basic GIS principles and practices; sources of information and research techniques related to GIS; problem-solving methods; mathematical and statistical computations; English language sufficient to write grammatically correct business correspondence. **Ability to:** communicate effectively both verbally and in writing; analyze data and reach logical conclusions; write grammatically correct business correspondence; read and understand technical information.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):  
*(These are identical to the Entry Level Knowledge, Skills and Abilities required for GIS Analyst I.)*

This class specification is used for classification, recruitment, and examination purposes. It is not to be considered a substitute for work performance standards for positions assigned to this series.

|              | <u>6.343</u>          | <u>6.342</u>          | <u>6.341</u>          | <u>6.340</u>          | <u>6.339</u> |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|--------------|
| ESTABLISHED: | 3/07/13R<br>6/18/15UC | 3/07/13R<br>6/18/15UC | 3/07/13R<br>6/18/15UC | 3/07/13R<br>6/18/15UC | 5/13/19UC    |
| REVISED:     | 5/13/19UC             | 5/13/19UC             | 5/13/19UC             | 5/13/19UC             |              |

# The Future of GIS – USC Blog

February 23, 2021

You've likely heard plenty about historical trends in the development and use of Geographic Information Science (GIS), but what about where GIS is headed into the future? While it can be difficult to try to prophesize the future of an industry and technology, there are a wealth of clues that hint at and reveal a glimpse of the future of GIS.

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## GIS OF THE FUTURE VS. HERE AND NOW

Before [predicting trends in GIS](#), let's take an inventory of current trends.

“Openness” – of systems, software, and data – has been a growing trend in the technology sector in the past decade, and the “openness” trend has contributed to immeasurable value for GIS technology and practices. In fact, a GIS Professional market and applications survey of more than 200 GIS professionals found that the majority of respondents expect the “openness” trend to continue.

Because this means that more organizations have access to open source GIS software and open data, the number of small businesses making use of GIS continues to grow. Other trends that have been reshaping the GIS market include mobile GIS and visualization, the report found.

Of course, current conditions will have some bearing on the future of GIS. While “openness” was identified as a key market trend, 12% of respondents also said “openness” could be a challenge to market growth – a double-edged sword of sorts. Openness can be challenging to market growth in that it introduces issues around data privacy. While openness is making GIS software more accessible to smaller businesses, there is a fear that this will mean less qualified people will be using GIS without fully understanding how to use spatial data effectively and ethically, leading to more confusion and less advancement of the application and [use of GIS](#).

Other challenges that were identified by survey respondents include data accuracy (32%), efficient data management (31%), and location privacy (8%).

The most common applications of GIS today by businesses include spatial planning (31%), decision making (30%), and asset management (23%), the survey found. But when asked which technological advancements they expect to become key to their organizations in the future, respondents pointed to cloud technology, real-time data, Internet of Things (IoT), 3D GIS, mobile GIS, and UAVs.

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## MOVING BEYOND THE TRADITIONAL GIS APPLICATIONS

It's relatively easy to see how GIS technology is transforming supply chain and asset management, as well as how [GIS is essential to cartography](#) and modern maps. But take a step off the beaten path and consider how GIS might be transforming the virtual world – whether we're talking GIS data visualization or augmented reality and virtual reality. With the rising acceptance and use of AR and VR in the consumer world, the use cases for leveraging [3D GIS will continue to grow](#).

[As Esri President Jack Dangermond wrote](#), “The geospatial industry is quickly evolving because the capabilities of digital connectedness and collaboration are moving ahead exponentially. In fact, the five biggest trends in the area of geographic information system (GIS) technology are centered on making data more accessible and creating context to visualize this data in an age when fast, easy access to information is taken for granted.”

Esri's CityEngine software is one example that Lucy Benton gives that could provide a glimpse of the future of GIS. It allows the production of urban scenes based on real-time, 3D GIS data, so users can plan city architecture, design, and community development.

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## THE GIS AR OPPORTUNITY

GIS of the future may very well be in augmented reality and virtual reality. AR and VR use continues to grow as users become more comfortable with the technology, and this will lead to more and more developers integrating GIS

capabilities into their applications, Benton said. These GIS-enabled AR apps could be used by anyone from architects to oil workers and municipal services to see location and orientation of objects underground. And game developers in the future will likely be using GIS to create virtual worlds to serve as the creative mind's playground.

This is one of the areas where 3D and mobile GIS are likely to converge. Powered by 3D spatial information, mobile GIS applications will be able to create immersive experiences anywhere out in the field. Early examples of this trend can be seen in popular games like Pokémon Go but the potential for immersive AR visualizations is limitless.

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## INDOOR MAPPING, UI, AND IOT

In the same way that GIS is used to make maps of cities and roadways, the technology is now being used to develop indoor maps. While it's still in the early stages of development and adoption, future trends in GIS have indoor mapping likely to skyrocket in popularity in the coming years as people have more of a need to navigate large, complex buildings. For example, more sophisticated and detailed indoor mapping technology may drastically improve safety for emergency responders, who would have improved access to layout, points of entry and other critical information when arriving at the scene of an incident.

One of the biggest changes for developers in the future of GIS will come at the user interface (UI) level, Benton said. "These interfaces will make developing work a lot easier because it will feature an easy-to-understand environment that intuitively helps the user to create, add, edit, and remove elements," she wrote. She later added, "An introduction of the user interface is a major breakthrough because it will make the maps friendlier to developers as well as everyone who uses them."

As Dangermond said, "[M]aps are the visual language for understanding the context of data." Dangermond believes that the next major leap in the future of GIS will be tapping in to the growing network of Internet-connected devices that make up the Internet of Things. By leveraging all the connected devices, GIS practitioners will be able to get even more data in real-time.

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# WHAT IS THE FUTURE OF GIS?

All things taken together, the future of GIS is very optimistic. It's poised for even wider scale adoption than we've seen in recent decades, as more organizations learn how much business value can come from geospatial data. As trends like data analytics, mobility, AR, and IoT continue to take off around the world, we can expect geographic information science and technology not only to be transformed but also to help change the way organizations utilize these technologies.

### **Agenda Item III. E. Proposal to Establish an AML Hard Closure Fund**

#### **The Goal**

The Division has identified approximately 270 AML hazards located on lands owned by counties, municipalities, and various State agencies. Each of these represent a safety hazard to the public and a liability for the owner. The Division is proposing to create a new expenditure category, funded by a transfer from the existing reserves, from which these entities can apply for sufficient funding to perform or contract their own hard closure efforts, thereby protecting the public and mitigating the liability.

#### **Why is this needed?**

NRS 513.108 allows “the board of county commissioners in each county to apply to the Division for money to abate dangerous conditions” (AML), however the funding for this statute is restricted to revenue received under NRS 235.016:

*The Director (of the Office of Finance) shall set and collect a royalty for the use of The Great Seal of the State of Nevada from the mint which produces the medallions or bars. The amount of the royalty must be:*

*(a) Based on the usual and customary fee charged as a commission by dealers of similar medallions or bars; and*

*(b) Adjusted at least once each year to ensure it is competitive with the usual and customary fee.*

*2. The money collected pursuant to this section must be deposited in the Account for the Division of Minerals created pursuant to NRS 513.103.*

Since its inception in 1989, the Medallion Royalty has provided \$35,053.65 in revenue to the Division. On three separate occasions (1995, 2008, and 2013), the Nye County Board of Commissioners requested and received payments from this fund, totaling \$28,049, to abate conditions at the Tonopah Historic Mining Park. The current balance in the fund is \$7,004.65.

A recent query of the AML SOSA database identified approximately 270 AML hazards which are not hard closed having ownership identified as a county, municipality, tribe, or State agency. The estimated cost to perform hard closures of all the features is approximately \$1,000,000, see attachment.

#### **How would this be accomplished?**

The Division is proposing to create, through the submission of a Work Program, a new expenditure category, to be funded by a transfer from the Reserve. The Work Program would need to be approved at the next Interim Finance Committee meeting (August?). Once approved we would send out letters inviting identified entities to submit a proposal for project funding to permanently address the hazards. If approved, an interlocal contract would be created, subject to BOE approval, to define the timeframe, scope of work and funding. While the Division would provide guidance, the work would be performed by the entity or their contractor. Preliminary discussions with a few county managers indicate there is interest in the funding and a desire to perform the work.

#### **How much funding is appropriate?**

While actual costs will vary, the average hard closure cost is approximately \$4,000. To garner interest and provide sufficient funding for several entities to perform the work, the Division is recommending a minimum of \$200,000.

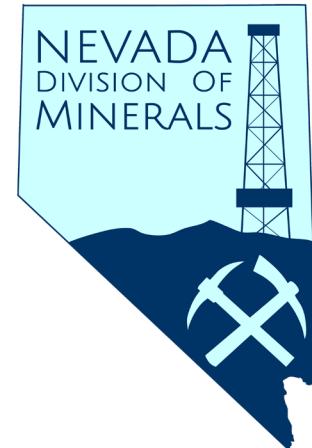
## Summary Count of AML Hazards "Owned" by Entity

| ENTITY                              | # OF AML FEATURES | AML RANKED HIGH | ESTIMATED<br>COST FOR ALL | ESTIMATED<br>COST FOR<br>HIGH ONLY |
|-------------------------------------|-------------------|-----------------|---------------------------|------------------------------------|
| WALKER RIVER PAIUTE RESERVATION     | 72                | 3               | \$288,000                 | \$12,000                           |
| TONOPAH TOWNSHIP                    | 55                | 39              | \$220,000                 | \$156,000                          |
| TONOPAH HISTORIC MINING PARK        | 33                | 24              | \$132,000                 | \$96,000                           |
| NEVADA STATE PARKS                  | 23                | 5               | \$92,000                  | \$20,000                           |
| NYE COUNTY                          | 21                | 3               | \$84,000                  | \$12,000                           |
| UNIVERSITY OF NEVADA RENO           | 18                |                 | \$72,000                  |                                    |
| PAHRUMP VALLEY MUSEUM & HISTCL SOC. | 15                |                 | \$60,000                  |                                    |
| CLARK COUNTY                        | 7                 |                 | \$28,000                  |                                    |
| CITY OF BOULDER CITY                | 6                 |                 | \$24,000                  |                                    |
| CARSON CITY                         | 3                 |                 | \$12,000                  |                                    |
| NDOT                                | 3                 |                 | \$12,000                  |                                    |
| PIOCHE TOWN DISTRICT                | 3                 |                 | \$12,000                  |                                    |
| WASHOE COUNTY                       | 3                 |                 | \$12,000                  |                                    |
| YERINGTON, CITY OF                  | 3                 |                 | \$12,000                  |                                    |
| WALKER RIVER IRRIGATION DIST        | 2                 |                 | \$8,000                   |                                    |
| EUREKA COUNTY                       | 1                 |                 | \$4,000                   |                                    |
| PERSHING COUNTY                     | 1                 |                 | \$4,000                   |                                    |
| STOREY COUNTY                       | 1                 |                 | \$4,000                   |                                    |
| WHITE PINE COUNTY                   | 1                 |                 | \$4,000                   |                                    |
| <b>TOTAL</b>                        | <b>271</b>        |                 | <b>\$1,084,000</b>        | <b>\$296,000</b>                   |

# *Fiscal Year 2024-2025 Budget and Strategic Planning*



**CMR Quarterly Meeting**  
**May 19, 2022**



# Governor's Budget Messages

- Governor's Strategic Planning Framework
  - Goals and objectives for the next 5 years
  - 8 Essential Core Functions of Government
  - Quantitative performance measures for objectives
  - Each primary activity must have at least one performance measure (efficiency, outcome or effectiveness)
- Budgets and Plans must align with the Governor's initiatives



## Core Functions and Priority

|  |   |  |
|--|---|--|
| <b>ELEVATING EDUCATION</b><br>Provide every Nevadan with an exceptional education that equips them with future-ready skills necessary for success  | <b>GOVERNMENT EFFICIENCY &amp; INNOVATION</b><br>Provide Nevadans with quality access to government through efficient and innovative services | <b>INFRASTRUCTURE, ENERGY &amp; ENVIRONMENT</b><br>Build a future for all Nevadans that protects our natural environment and promotes healthy ecosystems, while expanding clean, safe and modern infrastructure throughout the state |
| <b>IMPROVING SAFETY, SECURITY &amp; JUSTICE</b><br>Ensure the safety of all Nevadans by modernizing law enforcement, increasing agency collaboration and promoting the fair and equitable administration of law. | <b>ECONOMIC DIVERSIFICATION AND WORKFORCE DEVELOPMENT</b><br>Ensure all Nevadans have the opportunity to learn, earn and live well            | <b>PROMOTING HEALTHY &amp; RESILIENT COMMUNITIES</b><br>Improve the quality of life for all Nevadans by ensuring access to services and opportunities that build healthy, resilient communities                                      |

# Meeting the Governor's Core Functions and Priority

- Elevating Education
  - NDOM's Education program in-person and virtual at schools and workshops
  - AML Internship program
- Government Efficiency and Innovation
  - NDOM Open Data sites and agency website provide delivery of information to public and businesses
  - AML program enhancements
- Infrastructure, Energy & Environment
  - Fluid Minerals Program
- Improving Safety, Security & Justice
  - AML program
- Economic Diversification and Workforce Development
  - Industry outreach, Mines Registry, collect and disseminate information, trade shows, NRS 517 (Claims), NRS 519A (bond pool)

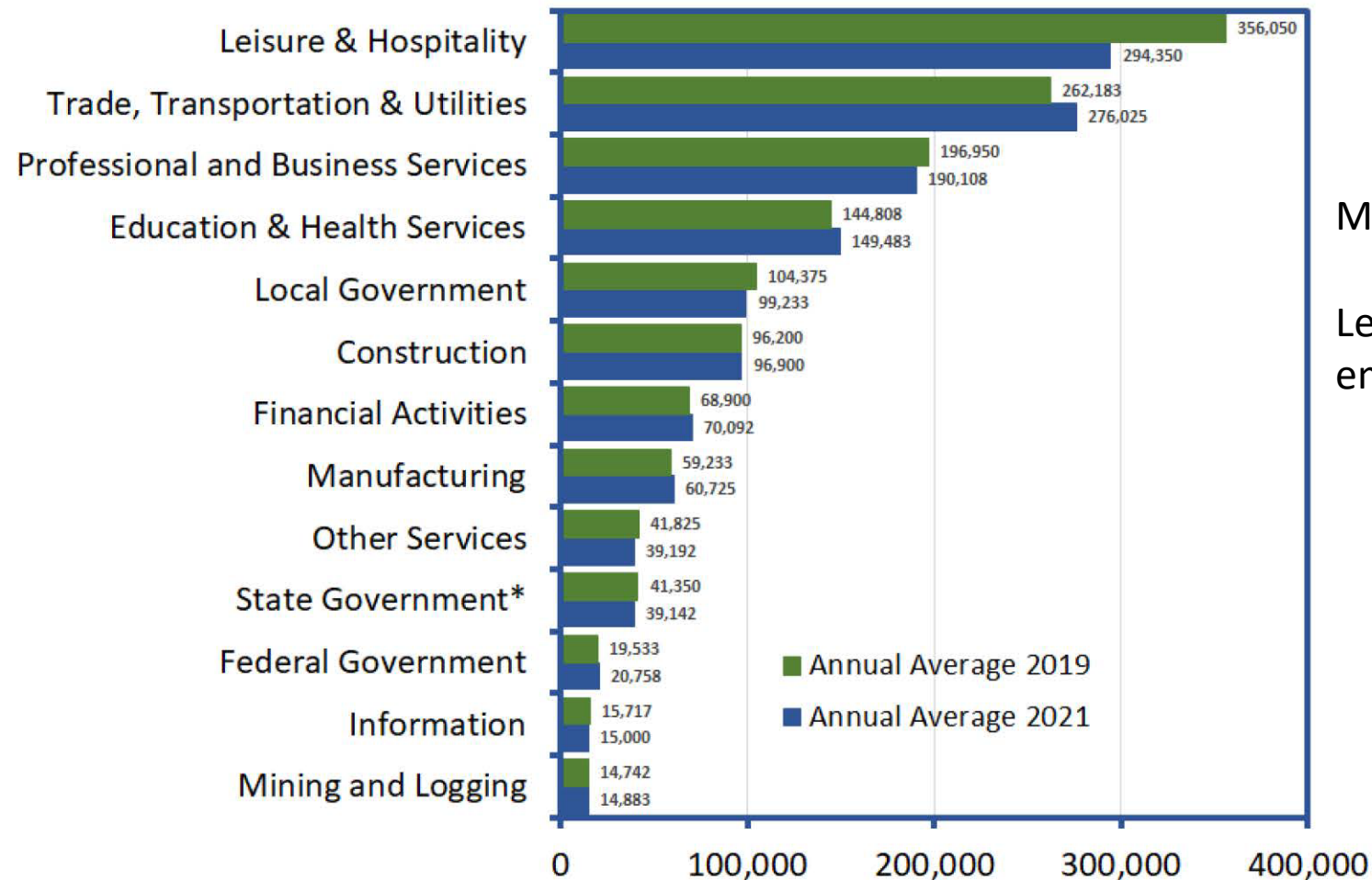


# Strategic Planning Priorities

Governor is asking agencies to consider the following challenges to make state government more effective and efficient:

- What activities do you perform you would stop if you could? What results could be obtained by reprioritizing those resources?
- What new initiatives would you propose? What results would they achieve? How would success be measured?
- What low-cost or no-cost policy or operational ideas would you propose?

# BUDGET KICKOFF 2023 – 2025 Executive Budget



Mining employment =1%

Leisure & Hospitality  
employment =21.5%

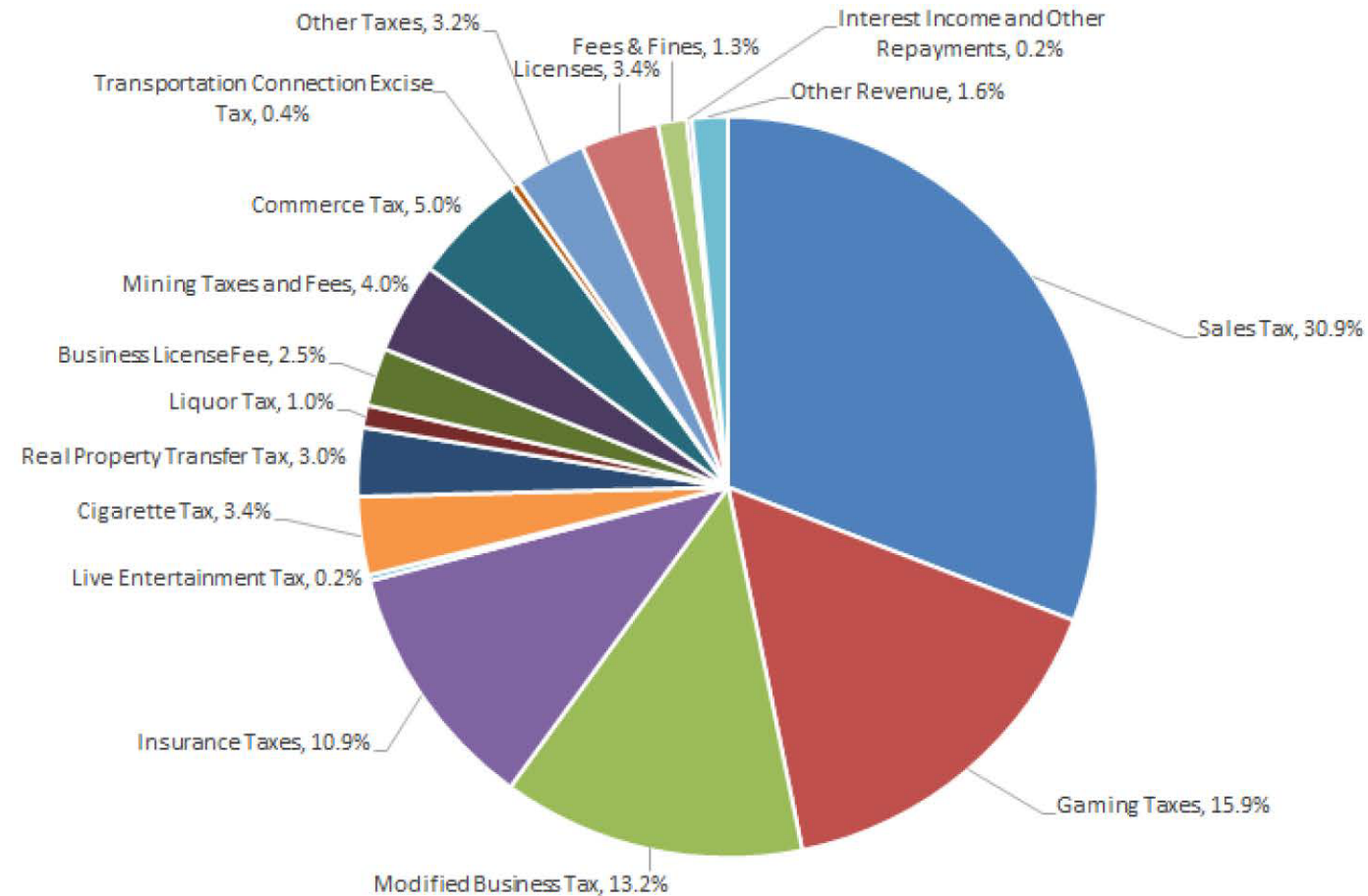
\* State Government employment does not reflect budgeted FTE employment

Source: DETR Research & Analysis

Jobs, NSA

# BUDGET KICKOFF 2023 – 2025 Executive Budget

## FY 2021 State Total General Fund Net Revenues



Mining Tax =4%

Leisure & Hospitality  
Tax (gaming)=15.9%

# Building the Budget

- Agency budgets must:
  - Align with Governor Strategic framework
  - Be consistent with legislation passed in 2021
  - Use FY22 Actuals as the base budget
  - Reconcile positions, revenues and expenditures
  - Include justifications and explanations
- Budget submission/Agency Request: Sept. 1
  - Certification letter for budget submission must be signed by Director or Chair.

# Budget Process - NDOM

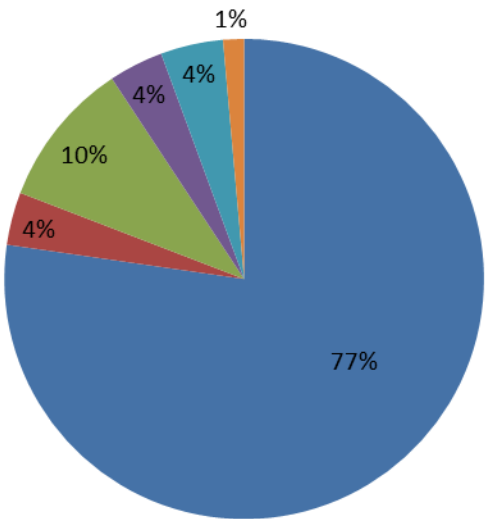
- Today - strategic planning meeting with CMR to provide input on budget initiatives and assumptions
- NDOM builds preliminary budget
- Modification and approval of budget at August CMR meeting.
- CMR Chair signs budget certification letter on/before Aug. 31.
- Submit Agency budget request Sept. 1.

## Agency 500 Commission on Mineral Resources - Performance Measures

| Activity                             | Performance Measure  | Description   | FY 2019<br>Actual | FY 2020<br>Actual | FY 2021<br>Actual | FY 2022<br>Forecast | FY 2023<br>Forecast | FY 2024<br>Forecast | FY 2025<br>Forecast |
|--------------------------------------|--|---|-------------------|-------------------|-------------------|---------------------|---------------------|---------------------|---------------------|
| Safety Programs                      | Percent of Hazardous Abandoned Mine Openings Secured         | Percent of Inventoried Abandoned Mine Land Openings Which Are Currently Secured<br><b>(Goal: Secured/Inventoried &gt; 70%)</b>  | 80%               | 80%               | 81%               | 82%                 | 82%                 | 82%                 | 82%                 |
| K-12 Education Programs and Services | Minerals Education and AML Presentations per Employee        | Number of Minerals Education and Public Safety (Abandoned Mine Land) Presentations Provided to Schools, Civic and Trade Groups Per Employee<br><b>(Goal: ≥ 24 per Employee)</b> | 32.5              | 26.4              | 36                | 45                  | 24                  | 24                  | 24                  |
| Well Drilling                        | Percent of Oil, Gas, and Geothermal Wells Inspected per Year | Percent of Active Oil, Gas, and Geothermal Wells Inspected <b>(Goal: ≥ 33%)</b>   | 66%               | 53%               | 66%               | 50%                 | 60%                 | 60%                 | 60%                 |

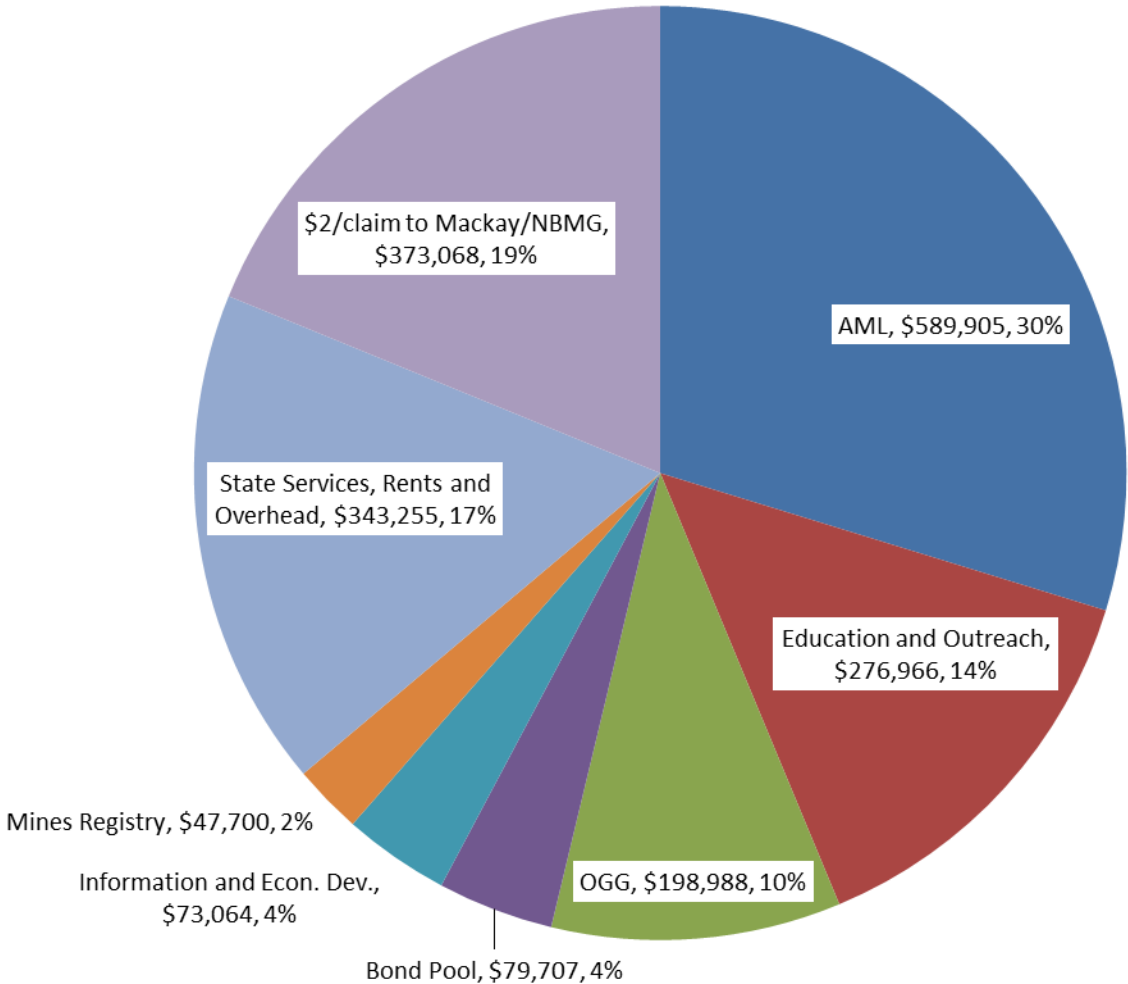
# NDOM REVENUES AND EXPENDITURES, 2016

## FY 16 Revenue (Forecast) \$1,908,024



- Mining Claim Fees (\$8.50/claim)
- BLM and USFS AML Assistance
- Oil, Gas and Geothermal Fees
- Surface Disturbance Fee (\$20/acre)
- Bond Bool Admin. Fee (3%)
- Other

## FY 16 Expenditures (Forecast) \$1,970,278



| NDOM Revenue Assumptions   |              |                  |              |              |              |
|----------------------------|--------------|------------------|--------------|--------------|--------------|
|                            | Actual       | Forecasted       |              |              |              |
|                            | FY21         | FY22 (base year) | FY23         | FY24         | FY25         |
| Claim Fees                 | \$ 2,411,550 | \$ 2,560,000     | \$ 2,560,000 | \$ 2,457,600 | \$ 2,359,296 |
| Geothermal Fees            | \$ 143,850   | \$ 158,000       | \$ 158,000   | \$ 158,000   | \$ 158,000   |
| Oil & Gas Fees             | \$ 30,636    | \$ 23,500        | \$ 28,500    | \$ 28,500    | \$ 28,500    |
| Dissolved Mineral Fees     | \$ -         | \$ 10,000        | \$ 8,000     | \$ 8,000     | \$ 8,000     |
| Bond Pool Admin            | \$ 63,695    | \$ 58,000        | \$ 60,000    | \$ 60,000    | \$ 60,000    |
| Federal Assistance (AML)   | \$ 230,512   | \$ 356,000       | \$ 280,000   | \$ 280,000   | \$ 280,000   |
| Surface Distrubance Fee    | \$ 102,180   | \$ 91,000        | \$ 80,000    | \$ 80,000    | \$ 80,000    |
| Other (including interest) | \$ 15,000    | \$ 15,000        | \$ 15,000    | \$ 15,000    | \$ 15,000    |

| NDOM EXPENDITURE ASSUMPTIONS |   |   |                                     |                |
|------------------------------|---|---|-------------------------------------|----------------|
|                              | <u>FY 2022</u>  | <u>FY 2023</u>                                  | <u>FY 2024</u>                      | <u>FY 2025</u> |
| 01- HR                       | 11 FTE  | 11 FTE  | 12 FTE                              | 12 FTE         |
| 02- Out of State Travel      | \$23,365  | \$25,000  | \$25,000                            | \$25,000       |
| 03- In-State Travel          | \$12,049  | \$12,900  | 2023 + 10%                          | 2023 + 10%     |
| 04- Operating Expense        | \$112,893   | \$113,134                                       | 2023 + 5%                           | 2023 + 5%      |
| 08- Board Travel             | \$2,200   | \$7,128   | \$7,128                             | \$7,128        |
| 09- Special Projects         | \$144,200 (Continuation of NBMG, PDAC, AME, NvMA) + \$37.8 RRV Rpt + \$50k Discovery exhibit  | \$144,200                                       | \$144,200 + \$40k Soda Lake Geo Rpt | \$144,200      |
| 14- Las Vegas Office         | \$44,078  | \$44,078  | \$44,078                            | \$44,078       |
| 17- Fluid Minerals           | \$11,981  | \$11,983  | \$14,000                            | \$14,000       |
| 18- AML                      | \$195,179 (intern per diem, materials, vehicle)   | \$197,087 (intern per diem, materials, vehicle) | 2023 +10%                           | 2023 +10%      |
| 26 82 - IT Services          | \$40,701  | \$35,871  | 2023 +10%                           | 2023 +10%      |
| 39- AML Enhancement          | \$1,072,290 (\$800k contracted closures, \$50k CI Cty revisits, \$30k LV UTV, \$50k geo analysis, \$75k cultural, \$10k helo, \$20k billboards) | \$1,125,000 (includes \$120k digital campaign)  | \$1,005,000                         | \$1,005,000    |

# BUDGET DECISIONS & CMR DISCUSSION

- Continue Nevada's presence at exploration trade shows to attract investment capital – PDAC and AME Roundup
- Expand the open-data website and look for additional ways to educate the public on exploration and mining
- Continue to fund specific reports, on an annual CMR approval basis, at NBMG: Bi-annual Exploration Survey, Annual MI Report, MM & Map, curation of cuttings, Special Reports, etc.
- Continue to increase AML hard closure contracted work and prepare for more Federal \$ toward AML (BIL 40704)
- Create new ways to incorporate Local Government AML work
- Create new GIS Analyst Position
- Are the Performance Measures adequate?
- Are there any new initiatives the CMR would like to see addressed by NDOM staff over the next 2 years?

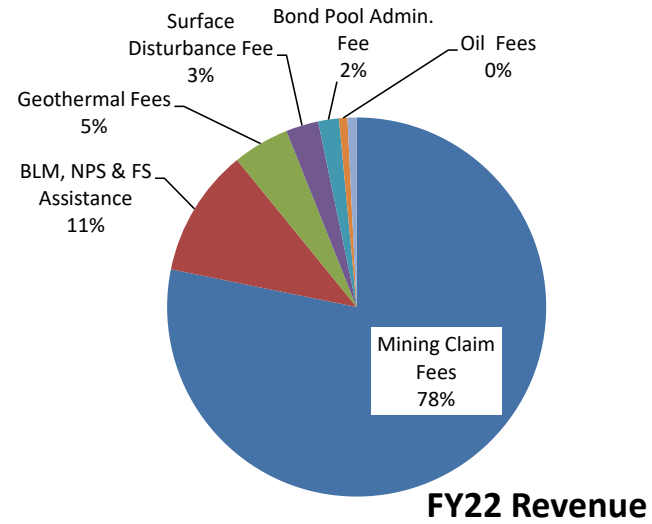


# Budget Cycle

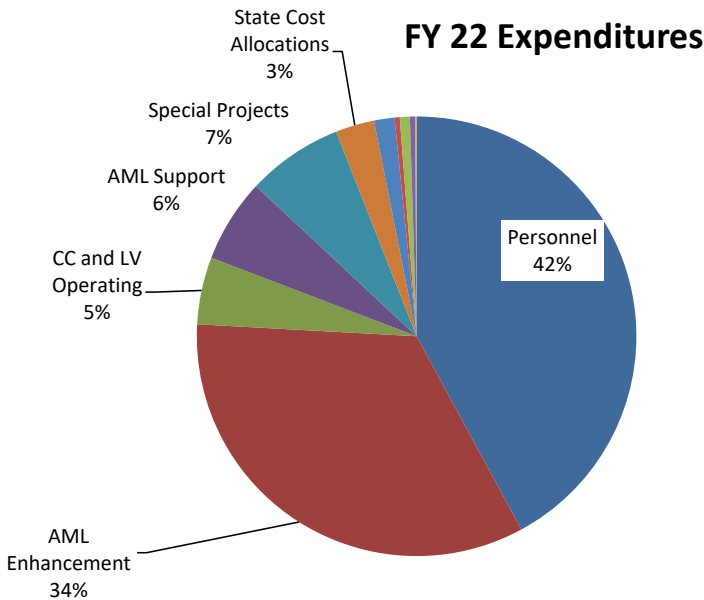
- Agency Request
  - Due 5:00PM Thursday September 1, 2022
- Governor Recommends
  - Budget Message and Summary
  - Line-Item Detail
  - Economic Development Incentives
  - Recommended Legislation
- Legislatively Approved
  - Session starts February 6, 2023
  - Session ends June 6, 2023
- Resources on the Budget Division website ([www.budget.nv.gov](http://www.budget.nv.gov))

## Fiscal Year 2022 Forecast Revenue and Expenditures

| Revenue Categories       | FY22 Revenue       | % YOY     |
|--------------------------|--------------------|-----------|
| Mining Claim Fees        | \$2,560,000        | 6%        |
| BLM, NPS & FS Assistance | \$358,136          | 55%       |
| Geothermal Fees          | \$158,000          | 10%       |
| Surface Disturbance Fee  | \$91,000           | -11%      |
| Bond Pool Admin. Fee     | \$58,000           | -9%       |
| Oil Fees                 | \$23,500           | 2%        |
| Other (incl. Interest)   | \$25,351           | -1%       |
| <b>Total</b>             | <b>\$3,273,987</b> | <b>9%</b> |



| Expenditure Categories | FY 22 Expenditures | % YOY      |
|------------------------|--------------------|------------|
| Personnel              | \$1,336,101        | 16%        |
| AML Enhancement        | \$1,072,290        | 123%       |
| CC and LV Operating    | \$156,971          | 23%        |
| AML Support            | \$195,179          | 33%        |
| Special Projects       | \$224,506          | 7%         |
| State Cost Allocations | \$90,693           | -6%        |
| Computer, IT, Training | \$47,793           | -1%        |
| Fluid Minerals         | \$11,981           | 58%        |
| Out-of-State Travel    | \$23,365           | #DIV/0!    |
| In-State Travel        | \$12,049           | 478%       |
| Other                  | \$1,297            | -87%       |
| CMR Travel             | \$2,200            | 421%       |
| <b>Total</b>           | <b>\$3,174,425</b> | <b>39%</b> |



| CMR-Division of Minerals - 2021-2025 Budgets and Forecasts (as of 5/10/2022) |  |              |             |             |               |               |               |               |   |
|--|--|--------------|-------------|-------------|---------------|---------------|---------------|---------------|---|
| Revenue  |  |              |             |             |               |               |               |               |   |
| GL #   | Description  | FY21 Actuals | FY22 Budget | FY22 YTD    | FY22 Forecast | FY23 Forecast | FY24 Forecast | FY25 Forecast | Remarks   |
| 2511   | Balance Forward Previous Year  | 1,871,712    | 2,585,143   | 2,585,143   | 2,585,143     | 2,684,705     | 2,704,804     | 2,596,148     |   |
| 3578   | BLM Grant  | 202,473      | 200,000     | 53,730      | 200,000       | 200,000       | 200,000       | 200,000       | BLM grant funding AML work. \$200k grant awarded 9/6/21, anticipate similar amount thru FY25  |
| 3580   | USFS Assistance Agreement  | 28,039       | 10,772      | 80,349      | 80,349        | 80,000        | 80,000        | 80,000        | USFS assistance funding AML work  |
| 3584   | NPS Grant  |              | 94,092      | 77,787      | 77,787        | 0             | 0             | 0             | National Park Service funding for AML work (unknown future funding)   |
| 3654   | Oil Production Fee   | 20,508       | 37,907      | 17,105      | 20,000        | 25,000        | 25,000        | 25,000        | \$0.15 per bbl fee for oil production annually (\$0.05 from 12/20 - 10/21)  |
| 3717   | Oil Permit Fees  | 2,500        | 3,300       | 3,200       | 3,500         | 3,500         | 3,500         | 3,500         | Permit fees for new oil and gas wells   |
| 3718 & 3727  | Mining Claim Fees  | 2,411,550    | 2,114,150   | 2,455,100   | 2,560,000     | 2,560,000     | 2,457,600     | 2,359,296     | Mining Claim fees @ \$10/claim filing, flat for FY23, -4% for FY24, -4% for FY25  |
| 3736   | Geothermal Fees  | 143,850      | 160,800     | 153,050     | 158,000       | 158,000       | 158,000       | 158,000       | Annual fee and permit fees for geothermal wells and permitting  |
| 3740   | Dissolved Mineral Resource Fees  | 0            | 2,000       | 8,000       | 10,000        | 8,000         | 8,000         | 8,000         | Permit fees for DMR (lithium brine) well permits  |
| 3770   | Surface Disturbance Fee (AML)  | 102,180      | 81,740      | 28,040      | 91,000        | 80,000        | 80,000        | 80,000        | \$20 per acre fee for new mine surface disturbance, FY23=12-year avg.   |
| 4011   | Copy Machines - Sales to Public  | 15           | 27          | 0           | 0             | 0             | 0             | 0             | Copying charge for Public Records Request   |
| 4027   | Publication Sales (AML signs)  | 1,556        | 1,210       | 2,621       | 2,100         | 2,100         | 2,100         | 2,100         | AML signs sold at office  |
| 4311   | Medallion Royalty Fee  | 788          | 1,304       | 253         | 253           | 500           | 500           | 500           | Fee for minting of medallions with State seal remitted to NDOM  |
| 4326   | Treasurer's Interest   | 12,998       | 40,990      | 7,742       | 12,998        | 12,998        | 12,998        | 12,998        | Interest we receive for money deposited with Treasurer  |
| 4620   | Transfer from Recl. Bond Pool  | 63,695       | 80,793      | 0           | 58,000        | 60,000        | 60,000        | 60,000        | Fee from Bond Pool for NDOM Management  |
| 4669   | CARES Act Reimbursement  | 10,320       |             |             | 0             | 0             | 0             | 0             | Federal funds used to offset pandemic related expenditures  |
|  | REVENUE TOTAL  | \$4,872,185  | \$5,414,228 | \$5,472,120 | \$5,859,130   | \$5,874,804   | \$5,792,502   | \$5,585,542   |   |
| Expenditures   |  |              |             |             |               |               |               |               |   |
| CAT #  | Description  | FY21 Actuals | FY22 Budget | FY22 YTD    | FY22 Forecast | FY23 Forecast | FY24 Forecast | FY25 Forecast | Remarks   |
| 01   | Personnel (Sal.,WC, PERS,OT)   | 1,156,212    | 1,296,101   | 913,149     | 1,336,101     | 1,372,893     | 1,428,611     | 1,457,168     | FY22/23 is as in Leg-Approved Budget plus \$40k (OT), 1% COLA (FY23), plus \$30k retirement payout ('23), <b>FY24 +86k new GIS (9 mos.), FY25 +114k (GIS)</b>   |
| 02   | Out-of-State Travel (Staff, CMR)   | 0            | 23,365      | 4,547       | 23,365        | 25,000        | 25,000        | 25,000        | FY22/23 as in budget  |
| 03   | In-State Travel (Non-AML)  | 2,084        | 12,049      | 9,383       | 12,049        | 12,900        | 14,190        | 14,190        | Travel, lodging and per-diem within State, as in budget   |
| 04   | Carson Operating Expenses+Equipment  | 95,031       | 112,893     | 88,688      | 112,893       | 113,134       | 118,791       | 118,791       | Rent, Operating supplies, as in budget  |
| 05   | Equipment  | 0            | 1,297       | 1,210       | 1,297         | 1,706         | 3,412         | 3,412         | Desks, chairs, as in budget   |
| 08   | CMR Travel (In-State)  | 422          | 7,128       | 1,459       | 2,200         | 7,128         | 7,128         | 7,128         | As in Budget  |
| 09   | Special Projects (Mackay, NBMG)  | 209,936      | 224,506     | 88,139      | 224,506       | 144,200       | 184,200       | 144,200       | FY22/FY23 \$97.2k (NBMG), \$27k (PDAC), \$5k (AME), \$15k (NvMA Ed), \$37.8k (FY22 only NBMG-RRV), \$49.5k (FY22 only Discovery Exhibit), <b>\$40k (NBMG Soda Lake Geo FY24)</b>  |
| 14   | Las Vegas Operating Expenses   | 32,667       | 44,078      | 40,063      | 44,078        | 44,078        | 44,078        | 44,078        | FY22/23 as in budget  |
| 17   | Fluid Minerals   | 7,583        | 15,561      | 9,791       | 11,981        | 11,983        | 11,983        | 11,983        | Field expenses for OGG and DMRE, as submitted in State Budget   |
| 18   | AML Support (per diem, trucks, fuel, AML supplies and travel, SOSA supplies) | 146,764      | 195,179     | 88,014      | 195,179       | 197,017       | 216,719       | 216,719       | Up to 8 summer interns and 3 winters FY22/23; FY22/23 as in State Budget, includes one new truck each year  |
| 25   | CARES Act Expenditures   | 10,320       | 0           | 0           | 0             | 0             | 0             | 0             |   |
| 26 & 82  | Computer and IT  | 43,754       | 40,701      | 25,390      | 40,701        | 35,871        | 39,458        | 39,458        | Computer hardware/replacements; EITS services and support   |
| 30   | Training   | 4,721        | 7,092       | 4,805       | 7,092         | 7,092         | 7,092         | 7,092         | ESRI and other training   |
| 39   | AML Enhancements(contracts, equip.)  | 481,463      | 1,072,290   | 379,638     | 1,072,290     | 1,125,000     | 1,005,000     | 955,000       | \$800k/yr contracted AML closure and related work. Work not completed in '21 pushed into '22. \$50k/yr CL Cty revisits (thru 24), \$30k LV UTV (FY22), \$50k/yr geo analysis, \$75k/yr cultural surveys, \$10k/yr helicopter surveys, \$20k/yr billboards, \$120k digital media campaign (FY23) |
| 87 & 88 & 89   | Cost Allocations (State, Purchasing, AG)                                     | 96,085       | 90,693      | 75,433      | 90,693        | 71,998        | 90,693        | 90,693        | Purchasing assessment, AG cost allocation, State cost allocation  |
|  | EXPENDITURE TOTAL  | \$2,287,042  | \$3,142,933 | \$1,729,708 | \$3,174,425   | \$3,170,000   | \$3,196,355   | \$3,134,912   |   |
| 86   | Reserve - Balance Forward to Next Year                                       | \$2,585,143  | \$2,271,295 | \$3,742,412 | \$2,684,705   | \$2,704,804   | \$2,596,148   | \$2,450,631   |   |
|  |  |              |             |             | \$1,113,239   | \$1,119,804   | \$997,970     | \$883,175     | Reserve Amount in excess of "50% of Expenditures" guidance  |

### **III. NEW BUSINESS**

### **III. A Review of Agency's Draft Budget for Fiscal Years 2024/2025**

# Budget Building Process

| FY 24-25 |     |
|----------|-----|
| 1        | 2   |
| 3        | 4   |
| 5        | 6   |
| 7        | 8   |
| 9        | 10  |
| 11       | 12  |
| 13       | 14  |
| 15       | 16  |
| 17       | 18  |
| 19       | 20  |
| 21       | 22  |
| 23       | 24  |
| 25       | 26  |
| 27       | 28  |
| 29       | 30  |
| 31       | 32  |
| 33       | 34  |
| 35       | 36  |
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| 69       | 70  |
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| 75       | 76  |
| 77       | 78  |
| 79       | 80  |
| 81       | 82  |
| 83       | 84  |
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| 87       | 88  |
| 89       | 90  |
| 91       | 92  |
| 93       | 94  |
| 95       | 96  |
| 97       | 98  |
| 99       | 100 |

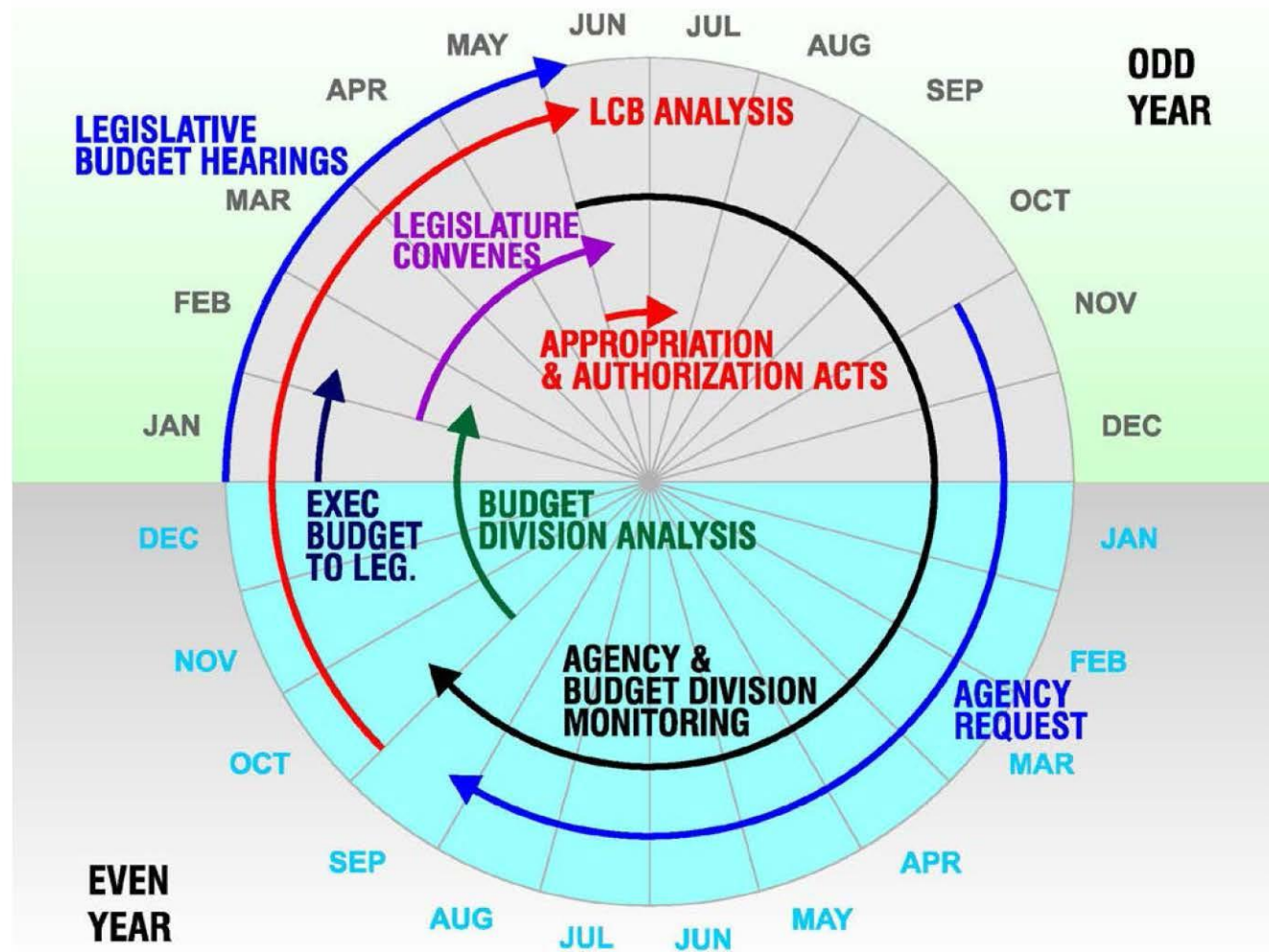
**Valerie Kneefel – Program Officer II**

# Timelines for FY 24/25 Budget

- Nevada Executive Budget System open- April 2022
- Technology Investment Notifications (TIN) due-April 2022
- End of FY-22 Base Year- 6/30/22
- Base Year=This is the starting point for FY24-25
- Single Fiscal Year End Closings due- 8/31/22
- Agency Submitted Budget due-9/1/22 at 4:00 pm
- Governor's Finance office and LCB fiscal make adjustments and can only be done by these agencies. There will be several inquiries by either agency requiring responses and documentation.
- Legislatively Approved budget-Session starts 2/6/2023 ends 06/06/2023.



# Biennial Budget Cycle



# Major Budget Elements

## Revenues

- Fees (Mining Claims, Fluid Minerals & Surface Disturbance)

- Grants (Assistance Agreements-BLM)

## Expenditures

- Personnel

- General Operating

- Special Projects

- Equipment and other costs

- Specific Program operations (AML & Fluid Minerals)

## Reserves

Reserve categories are not considered an expenditure category. A work program must be submitted and approved in order to transfer the any amount of the reserve to an expenditure category.

# Budget Preparation for NEBS

- Travel and training logs
- Contract Information
- EITS Utilization Information
- Equipment Schedule
- Building Lease information
- Vehicle/Truck information-Fleet Service and Agency Owned
- Modifications changes to base
- Fund Maps

[illegible]

# Changes to Base Year (FY-22)

- Personnel
  - Adding a new position (GIS Analyst)
  - Full Time staffing at 11 changing to 12
- Special Projects
  - NBMG 2-year agreement for reports and archiving \$97K/yr
  - AME-Roundup in Canada-\$3,600 travel for 2 attendees.
- AML
  - Trucks. The State replacement schedule allows for replacement of the Division's trucks every 10 years. We have been unable to replace them due to shortage of availability. In FY24-25 we will need to replace 3 vehicles.

# General Budget Rules

- Every even year's actuals is the base for the next Budget
- Budgeting for two fiscal years
- Any change to the budget must be:
  - Documented (M-150, E-710 or other)
  - Justified
    - Explanation with reasoning
    - CMR or other approval
    - Quotes
    - Relations to NACs or State Administrative Manual
  - Funded
    - Document funding source
- Cannot budget for cost allocations. (Personnel, Attorney General Office, Mail, EITS )
- Approved at 3 levels
  - Agency
  - Governor's Finance Office
  - Legislature
- Actual Budget Manual 167 pages
- Expenditures must be attached to an Activity that meets the Governors strategic priorities.



## **Budget Building Manual 2023 - 2025 Biennium**

Susan Brown, Director  
Governor's Finance Office  
209 E. Musser St. Room 200  
Carson City, NV 89701  
[www.budget.nv.gov](http://www.budget.nv.gov)

# Nevada Executive Budget System (NEBS)

## (Online demonstration will be provided during the meeting)

Budget / Account Line Item Summary / Budget Account by DU

Budget Account Version: 2023-2025 Biennium (FY24-25) 4219 DIVISION OF MINERALS A00 AGENCY REQUEST AS SUBMITTED

### Summary Page

Summary Line Items Schedules Positions Mapping Acct. Maint.

View: Bud Acct by DU

| Catg                           | GL   | Description                             | Actual    | Work Program | B000      | M100    | M150   | E127   | E226   | E710   | E711   | E712  | Yr 1 Total | B000      | M100    | M150    | E127    | E226   | E710 |
|--------------------------------|------|---|-----------|--------------|-----------|---------|--------|--------|--------|--------|--------|-------|------------|-----------|---------|---------|---------|--------|------|
| 00                             | 2511 | BALANCE FORWARD FROM PREVIOUS YEAR      | 2,624,665 | 1,228,673    | 1,455,212 | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 1,455,212  | 1,455,212 | 0       | 0       | 0       | 0      | 0    |
| 00                             | 2512 | BALANCE FORWARD TO NEW YEAR             | 0         | 0            | 0         | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 0          | 0         | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3578 | FED BLM CORPORATIVE AGREEMENT           | 200,000   | 200,000      | 200,000   | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 200,000    | 200,000   | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3580 | USFS ASSISTANCE AGREEMENT               | 80,349    | 10,772       | 100,000   | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 100,000    | 100,000   | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3584 | FEDERAL GRANT-D                         | 77,787    | 94,092       | 77,787    | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 77,787     | 0         | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3654 | OIL AND GAS PERMITS AND FEES            | 22,668    | 37,907       | 37,907    | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 37,907     | 37,907    | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3717 | APPLICATION FEES                        | 4,400     | 3,300        | 3,300     | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 3,300      | 3,300     | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3718 | MINING REGULATION FEES                  | 1,540,710 | 1,522,188    | 1,522,188 | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 1,522,188  | 1,522,188 | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3727 | DANGEROUS MINE FEES                     | 1,027,140 | 1,014,792    | 1,014,792 | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 1,014,792  | 1,014,792 | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3736 | GEO THERMAL FEES                        | 156,550   | 160,800      | 160,800   | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 160,800    | 160,800   | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3740 | DISSOLVED MINERAL RE EXPL               | 8,000     | 2,000        | 2,000     | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 2,000      | 2,000     | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3770 | AML SECURING FEE                        | 90,940    | 81,740       | 81,740    | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 81,740     | 81,740    | 0       | 0       | 0       | 0      | 0    |
| 00                             | 3805 | NAAMLP CONFERENCE                       | 82,602    | 0            | 0         | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 0          | 0         | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4011 | PRINTING SALES                          | 0         | 27           | 27        | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 27         | 27        | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4027 | PUBLICATION SALES                       | 2,937     | 1,210        | 1,210     | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 1,210      | 1,210     | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4218 | REBATE                                  | 294       | 0            | 294       | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 294        | 294       | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4311 | ROYALTY INCOME                          | 253       | 1,304        | 253       | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 253        | 253       | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4326 | TREASURERS INTEREST DISTRIB             | 16,858    | 40,990       | 40,990    | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 40,990     | 40,990    | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4620 | TRANSFER FROM RECLAMATION BOND POOL ... | 0         | 80,793       | 80,793    | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 80,793     | 80,793    | 0       | 0       | 0       | 0      | 0    |
| 00                             | 4669 | TRANS FROM OTHER B/A SAME FUND          | 0         | 0            | 0         | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 0          | 0         | 0       | 0       | 0       | 0      | 0    |
| Sub Total Category 00: REVENUE |      |   | 5,936,153 | 4,480,588    | 4,779,293 | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 4,779,293  | 4,701,506 | 0       | 0       | 0       | 0      | 0    |
| 01                             | 5100 | SALARIES                                | 823,869   | 853,585      | 854,412   | 0       | 0      | 66,173 | 0      | 0      | 0      | 0     | 920,585    | 855,671   | 0       | 0       | 88,230  | 0      | 0    |
| 01                             | 5170 | SEASONAL                                | 0         | 130,548      | 0         | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 0          | 0         | 0       | 0       | 0       | 0      | 0    |
| 01                             | 5200 | WORKERS COMPENSATION                    | 11,148    | 8,075        | 8,080     | 0       | 0      | 1,179  | 0      | 0      | 0      | 0     | 9,259      | 8,041     | 0       | 0       | 731     | 0      | 0    |
| 01                             | 5300 | RETIREMENT                              | 175,136   | 170,401      | 178,213   | 0       | 0      | 10,257 | 0      | 0      | 0      | 0     | 188,470    | 178,589   | 0       | 0       | 13,676  | 0      | 0    |
| 01                             | 5400 | PERSONNEL ASSESSMENT                    | 3,015     | 2,865        | 782       | 0       | 0      | 261    | 0      | 0      | 0      | 0     | 1,043      | 782       | 0       | 0       | 261     | 0      | 0    |
| 01                             | 5420 | COLLECTIVE BARGAINING ASSESSMENT        | 18        | 60           | 18        | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 18         | 18        | 0       | 0       | 0       | 0      | 0    |
| 01                             | 5430 | LABOR RELATIONS ASSESSMENT              | 536       | 469          | 536       | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 536        | 536       | 0       | 0       | 0       | 0      | 0    |
| Total Revenue                  |      |   | 5,936,153 | 4,480,588    | 4,779,293 | 0       | 0      | 0      | 0      | 0      | 0      | 0     | 4,779,293  | 4,701,506 | 0       | 0       | 0       | 0      | 0    |
| Total Expense                  |      |   | 4,111,442 | 3,752,894    | 4,145,721 | -18,619 | -4,622 | 87,736 | 30,589 | 38,983 | 42,157 | 3,960 | 4,325,905  | 4,147,363 | -18,619 | -64,327 | 115,857 | 35,304 | 17,8 |

# Line Items

NEBS - Nevada Executive Budget System  
Nevada Executive Budget System

Home NEBS Work Programs SFYE Reports Data Mart Messages

## Budget Account Line Items

Budget Account Version: 2023-2025 Biennium (FY24-25) 4219 DIVISION OF MINERALS A00 AGENCY REQUEST AS SUBMITTED

### Revenue/Expenditures Out of Balance

|                  |    |         |    |          |
|------------------|----|---------|----|----------|
| All DUs          | Y1 | 453,388 | Y2 | -417,643 |
| This DU (All)    | Y1 | 453,388 | Y2 | -417,643 |
| Other DUs (None) | Y1 | 0       | Y2 | 0        |

### Reserves Out of Balance

|                  |       |         |       |         |
|------------------|-------|---------|-------|---------|
| All DUs          | WP/Y1 | 454,275 | Y1/Y2 | 226,539 |
| This DU (All)    | WP/Y1 | 454,275 | Y1/Y2 | 226,539 |
| Other DUs (None) | WP/Y1 | 0       | Y1/Y2 | 0       |

### Actual/WP Reserves Out of Balance

|               |           |
|---------------|-----------|
| This DU (All) | 1,228,673 |
|---------------|-----------|

Summary Line Items Schedules Positions Mapping Acct. Maint.

| Add Line Item      |      |      |      | Decision Unit: Display All Decision Units   |           | Synchronize Actuals to DAWN |           | Edit Actual/WP |           | Reserves |   | Highlight Changes |  |
|--------------------|------|------|------|---|-----------|-----------------------------|-----------|----------------|-----------|----------|---|-------------------|--|
| Action             | DU   | Catg | GL   | Description                                 | Actual    | Work Pgm                    | Year 1    | Change         | Year 2    | Change   | Schedule                                    |                   |  |
|                    | 8000 | 00   | 2511 | BALANCE FORWARD FROM PREVIOUS YEAR          | 2,624,665 | 1,228,673                   | 1,455,212 | 0              | 1,455,212 | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 2512 | BALANCE FORWARD TO NEW YEAR                 | 0         | 0                           | 0         | 0              | 0         | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3578 | FED BLM CORPORATIVE AGREEMENT               | 200,000   | 200,000                     | 200,000   | 0              | 200,000   | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3580 | USFS ASSISTANCE AGREEMENT                   | 80,349    | 10,772                      | 100,000   | 0              | 100,000   | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3584 | FEDERAL GRANT-D                             | 77,787    | 94,092                      | 77,787    | 0              | 0         | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3654 | OIL AND GAS PERMITS AND FEES                | 22,668    | 37,907                      | 37,907    | 0              | 37,907    | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3717 | APPLICATION FEES                            | 4,400     | 3,300                       | 3,300     | 0              | 3,300     | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3718 | MINING REGULATION FEES                      | 1,540,710 | 1,522,188                   | 1,522,188 | 0              | 1,522,188 | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3727 | DANGEROUS MINE FEES                         | 1,027,140 | 1,014,792                   | 1,014,792 | 0              | 1,014,792 | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3736 | GEO THERMAL FEES                            | 156,550   | 160,800                     | 160,800   | 0              | 160,800   | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3740 | DISSOLVED MINERAL RES EXPL                  | 8,000     | 2,000                       | 2,000     | 0              | 2,000     | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3770 | AML SECURING FEE                            | 90,940    | 81,740                      | 81,740    | 0              | 81,740    | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 3805 | NAAMLP CONFERENCE                           | 82,602    | 0                           | 0         | 0              | 0         | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4011 | PRINTING SALES                              | 0         | 27                          | 27        | 0              | 27        | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4027 | PUBLICATION SALES                           | 2,937     | 1,210                       | 1,210     | 0              | 1,210     | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4218 | REBATE                                      | 294       | 0                           | 294       | 0              | 294       | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4311 | ROYALTY INCOME                              | 253       | 1,304                       | 253       | 0              | 253       | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4326 | TREASURER'S INTEREST DISTRIB                | 16,858    | 40,990                      | 40,990    | 0              | 40,990    | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4620 | TRANSFER FROM RECLAMATION BOND POOL BA 4220 | 0         | 80,793                      | 80,793    | 0              | 80,793    | 0        | - None -                                    |                   |  |
|                    | 8000 | 00   | 4669 | TRANS FROM OTHER B/A SAME RUND              | 0         | 0                           | 0         | 0              | 0         | 0        | - None -                                    |                   |  |
|                    | 8000 | 01   | 5100 | SALARIES                                    | 823,869   | 853,585                     | 854,412   | 0              | 855,671   | 0        | PAYROLL                                     |                   |  |
|                    | 8000 | 01   | 5170 | SEASONAL                                    | 0         | 130,548                     | 0         | 0              | 0         | 0        | - None -                                    |                   |  |
|                    | 8000 | 01   | 5200 | WORKERS COMPENSATION                        | 11,148    | 8,075                       | 8,080     | 0              | 8,041     | 0        | PAYROLL                                     |                   |  |
|                    | 8000 | 01   | 5300 | RETIREMENT                                  | 175,136   | 170,401                     | 178,213   | 0              | 178,589   | 0        | PAYROLL                                     |                   |  |
|                    | 8000 | 01   | 5400 | PERSONNEL ASSESSMENT                        | 3,015     | 2,865                       | 782       | 0              | 782       | 0        | PAYROLL                                     |                   |  |
|                    | 8000 | 01   | 5420 | COLLECTIVE BARGAINING ASSESSMENT            | 18        | 60                          | 18        | 0              | 18        | 0        | - None -                                    |                   |  |
|                    | 8000 | 01   | 5430 | LABOR RELATIONS ASSESSMENT                  | 536       | 469                         | 536       | 0              | 536       | 0        | ADMINISTRATION - LABOR RELATIONS ALLOCATION |                   |  |
| Total Revenue      |      |      |      |   | 5,936,153 | 4,480,588                   | 4,779,293 |                | 4,701,506 |          |   |                   |  |
| Total Expenditures |      |      |      |   | 4,111,442 | 3,752,894                   | 4,325,905 |                | 4,283,863 |          |   |                   |  |
| Difference         |      |      |      |   | 1,824,711 | 727,694                     | 453,388   |                | 417,643   |          |   |                   |  |

Save Save & Return Cancel

# Maintenance and Enhancements to the Base (Adjustments)

Budget Account Version: 2023-2025 Budget (12/23)

4219 DIVISION OF MINERALS

RAW ADJUST REQUEST AS SUBMITTED

Revenue/Expenditures Out of Balance

|                                 |    |         |    |         |
|---------------------------------|----|---------|----|---------|
| All DUs                         | Y1 | 453,388 | Y2 | 417,643 |
| This DU (M150)                  | Y1 | 4,622   | Y2 | 64,327  |
| Other DUs (B000, E127, more...) | Y1 | 448,766 | Y2 | 353,316 |

Reserves Out of Balance

|                  |       |         |       |         |
|------------------|-------|---------|-------|---------|
| All DUs          | WP/Y1 | 454,275 | Y1/Y2 | 226,539 |
| This DU (M150)   | WP/Y1 | 0       | Y1/Y2 | 0       |
| Other DUs (B000) | WP/Y1 | 454,275 | Y1/Y2 | 226,539 |

Summary

Line Items

Schedules

Positions

Mapping

Acct. Maint.

| Add Line Item |      |      |      | Decision Unit: M150 ADJUSTMENTS TO BASE | Synchronize Actuals to DAWN |          | Edit Actual/WP | Reserves | Highlight Changes |        |   |
|---------------|------|------|------|---|-----------------------------|----------|----------------|----------|-------------------|--------|---|
| Action        | DU   | Catg | GL   | Description                             | Actual                      | Work Pgm | Year 1         | Change   | Year 2            | Change | Schedule                                |
|               | M150 | 02   | 7302 | REGISTRATION FEES                       | 0                           | 0        | 400            | 0        | 400               | 0      | VENDOR SERVICES                         |
|               | M150 | 03   | 6211 | FS MONTHLY VEHICLE RENTAL IN-STATE      | 0                           | 0        | 13,098         | 0        | 13,098            | 0      | FLEET SERVICES VEHICLES                 |
|               | M150 | 04   | 7051 | AGENCY OWNED - PROP. & CONT. INSURANCE  | 0                           | 0        | -49            | 0        | -49               | 0      | AGENCY-OWNED PROPERTY AND CONTENTS      |
|               | M150 | 04   | 7052 | VEHICLE COMP & COLLISION INS            | 0                           | 0        | -721           | 0        | -721              | 0      | AGENCY OWNED VEHICLES                   |
|               | M150 | 04   | 7059 | AG VEHICLE LIABILITY INSURANCE          | 0                           | 0        | -956           | 0        | -956              | 0      | AGENCY OWNED VEHICLES                   |
|               | M150 | 04   | 705A | NON B&G - PROP. & CONT. INSURANCE       | 0                           | 0        | 53             | 0        | 53                | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 04   | 7060 | CONTRACTS                               | 0                           | 0        | 28             | 0        | 28                | 0      | VENDOR SERVICES                         |
|               | M150 | 04   | 7110 | NON-STATE OWNED OFFICE RENT             | 0                           | 0        | 97             | 0        | 97                | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 04   | 7111 | NON-STATE OWNED STORAGE RENT            | 0                           | 0        | 1,073          | 0        | 3,319             | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 04   | 7255 | B & G LEASE ASSESSMENT                  | 0                           | 0        | 38             | 0        | 38                | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 04   | 7286 | MAIL STOP-STATE MAILROM                 | 0                           | 0        | -2,120         | 0        | -2,120            | 0      | MAIL STOP - MAIL SERVICES               |
|               | M150 | 04   | 7300 | DUES AND REGISTRATIONS                  | 0                           | 0        | 100            | 0        | 100               | 0      | VENDOR SERVICES                         |
|               | M150 | 04   | 7301 | MEMBERSHIP DUES                         | 0                           | 0        | -7,500         | 0        | -7,500            | 0      | VENDOR SERVICES                         |
|               | M150 | 04   | 7302 | REGISTRATION FEES                       | 0                           | 0        | -400           | 0        | -400              | 0      | VENDOR SERVICES                         |
|               | M150 | 04   | 7370 | PUBLICATIONS AND PERIODICALS            | 0                           | 0        | 3,107          | 0        | 3,107             | 0      | VENDOR SERVICES                         |
|               | M150 | 04   | 7637 | NOTARY FEE APPLY OR RENEW               | 0                           | 0        | 150            | 0        | 150               | 0      | - None -                                |
|               | M150 | 04   | 7980 | OPERATING LEASE PAYMENTS                | 0                           | 0        | 759            | 0        | 759               | 0      | VENDOR SERVICES                         |
|               | M150 | 05   | 8241 | NEW FURNISHINGS <\$5,000 - A            | 0                           | 0        | -1,210         | 0        | -1,210            | 0      | EQUIPMENT                               |
|               | M150 | 09   | 7060 | CONTRACTS                               | 0                           | 0        | 49,163         | 0        | -14,807           | 0      | VENDOR SERVICES                         |
|               | M150 | 14   | 7051 | AGENCY OWNED - PROP. & CONT. INSURANCE  | 0                           | 0        | -18            | 0        | -18               | 0      | AGENCY-OWNED PROPERTY AND CONTENTS      |
|               | M150 | 14   | 705A | NON B&G - PROP. & CONT. INSURANCE       | 0                           | 0        | 21             | 0        | 21                | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 14   | 7062 | CONTRACTS - B                           | 0                           | 0        | -37            | 0        | -37               | 0      | VENDOR SERVICES                         |
|               | M150 | 14   | 7110 | NON-STATE OWNED OFFICE RENT             | 0                           | 0        | -146           | 0        | 781               | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 14   | 7111 | NON-STATE OWNED STORAGE RENT            | 0                           | 0        | -11            | 0        | -11               | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 14   | 7255 | B & G LEASE ASSESSMENT                  | 0                           | 0        | 19             | 0        | 19                | 0      | BUILDING RENT NON-BUILDINGS AND GROUNDS |
|               | M150 | 14   | 7980 | OPERATING LEASE PAYMENTS                | 0                           | 0        | -2             | 0        | -2                | 0      | VENDOR SERVICES                         |
|               | M150 | 17   | 7052 | VEHICLE COMP & COLLISION INS            | 0                           | 0        | 105            | 0        | 105               | 0      | AGENCY OWNED VEHICLES                   |
| Total Revenue |      |      |      |   | 0                           | 0        | 0              |          | 0                 |        |   |

This is where all changes to the base budget take place. These are Categories and GL's that already are established, and adjustments either plus or negative are made.



# Budget Checklist

## BUDGET PREPARATION CHECKLIST

| Department:       |  | Commission on Mineral Resources  |  |                  |                   |             |
|-------------------|--|--|--|------------------|-------------------|-------------|
| Division #:       |  | 500  | Division:  | Minerals         |                   |             |
| Budget Account #: |  | 4219   | Budget Account:  |                  |                   |             |
|                   |  |  |  |                  |                   |             |
| Item #            | Item Description   | Submission Methodology   | Location Entered in NEBS or Location of Attachment       | Attached In NEBS | Reviewed/Complete | Item Status |
| 1                 | Budget Submission Certification Letter for each agency signed by the director, or board or commission chairman (with Title) with two-times budget limit calculation. | * REQUIRED - Email, fax or deliver to: Budget Division, copy your Budget and LCB fiscal Analysts |  |                  | 9/1/2020          | Complete    |
| 2                 | Organizational Charts for each agency by programs and by FTE highlighting any program or FTE additions, deletions or changes   | REQUIRED - Email, fax or deliver to: Budget Division and LCB Fiscal Analysis                     | NEBS Tab, Budget Account Screen, Additional Text Folder  | 7/6/2020         | 7/6/2020          | Complete    |
| 3                 | Budget Preparation Checklist   | Attachment in NEBS   | NEBS Tab, Budget Account Screen, Additional Text Folder  | 9/1/2020         | 9/1/2020          | Complete    |
| 4                 | Fund Mapping (In NEBS and provide Excel version)   | Entered in NEBS & Attachment in NEBS   | Mapping Tab & Excel Version attached to NEBS Tab, Budget | 8/27/2020        | 8/27/2020         | Complete    |
| 5                 | Update Program Description (prints in Executive Budget Book)   | Entered in NEBS  | NEBS Tab, Budget Account Screen, Additional Text Folder  |                  | 8/20/2020         | Complete    |
| 6                 | Performance Measures   | Entered in NEBS  | Activity Budget Tab, Activities Tab                      |                  | 8/20/2020         | Complete    |
| 7                 | Agency Methodology used to track Performance Measures & Supporting Documentation   | Entered in NEBS  | Activity Budget Tab, Activities Tab                      |                  | 8/20/2020         | Complete    |
| 8                 | Maintenance/Enhancement Decision Unit Narrative including Word/Excel supporting documentation and calculations.  | Entered in NEBS  | Account Maintenance Tab, applicable Decision Unit        |                  | 8/26/2020         | Complete    |
| 9                 | Prioritized Decision Units at Department and Division Level  | Entered in NEBS  | Account Maintenance Tab                                  |                  | 7/15/2020         | Complete    |
| 10                | Agency Efficiency Option Decision Unit   | Entered in NEBS  | Account Maintenance Tab                                  |                  | N/A               | Complete    |
| 11                | Transfer Decision Units - Reconcile  | Entered in NEBS  | E900 Series Decision Units                               |                  | N/A               | Complete    |
| 12                | M150 Notes (Required for every line item)  | Entered in NEBS  | Line Item Tab, Filter M150 - Adjustments to Base         |                  | 8/15/2020         | Complete    |

Budget Prep Checklist

Budget\_Preparation\_Checklist - FINAL VERSION (1).xlsx

|    | A  | B   | C | D                                    | E  | F         | G         | H        |
|----|----|---|---|--------------------------------------|--|-----------|-----------|----------|
| 21 | 15 | Demographics/Caseload - narrative, methodology used and actual and projected caseloads by program   |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Maintenance Decision Unit (M800 Series), Cost Allocation | N/A       | N/A       | Complete |
| 22 | 16 | Agency Cost Allocation Plans  |   | Attachment in NEBS                   | Maintenance Decision Unit (M800 Series)  | N/A       | N/A       | Complete |
| 23 | 17 | Travel Logs & justification for Out-of-State, In-State & Training (all categories)  |   | Attachment in NEBS                   | Account Maintenance Tab, BASE  | 8/1/2020  | 8/1/2020  | Complete |
| 24 | 18 | Justification for Positions Vacant at least 12 months as of September 1st - required per NRS 353.210(b)   |   | Attachment in NEBS                   | Account Maintenance Tab, BASE  | N/A       | N/A       | Complete |
| 25 | 19 | Business plan (if required)   |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Decision Unit  | N/A       | N/A       | Complete |
| 26 | 20 | Excel Fund Map  |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Decision Unit  | 8/27/2020 | 8/27/2020 | Complete |
| 27 | 21 | Position Fund Map   |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Decision Unit  | N/A       | N/A       | Complete |
| 28 | 22 | Technology Investment Notification (TIN)  |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Decision Unit  | 4/5/2020  | 4/5/2020  | Complete |
| 29 | 23 | Signed NP0-19s for new Positions and Reclassifications (add decision unit number in right upper hand corner of State Public Works Division New/Additional Space Request (Leased Space form and Justification) |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Decision Unit  | N/A       | N/A       | Complete |
| 30 | 24 | Contract Summaries  |   | Attachment in NEBS                   | Account Maintenance Tab, applicable Enhancement Decision Unit                                | N/A       | N/A       | Complete |
| 31 | 25 | Vendor Quotes   |   | Attachment in NEBS                   | Schedules Tab, Vendor Schedule, applicable line item **                                      | 8/15/2020 | 8/15/2020 | Complete |
| 32 | 26 | Fleet Services Monthly Mileage Log  |   | Attachment in NEBS                   | Schedules Tab, Equipment Schedule, Applicable Equipment line item                            | 8/15/2020 | 8/15/2020 | Complete |
| 33 | 27 | Statewide Lease Information Form for each BOE-approved existing lease agreement for non-state owned buildings   |   | Attachment in NEBS                   | Schedules Tab, Fleet Services Vehicles Schedule  | 8/15/2020 | 8/15/2020 | Complete |
| 34 | 28 | Equipment Replacement Schedule Inventory Log  |   | Attachment in NEBS                   | Schedules Tab, Bldg Rent Non-B&G Schedule, applicable line item **                           | 8/15/2020 | 8/15/2020 | Complete |
| 35 | 29 | Review Agency-Owned Property and Contents Insurance Schedule  |   | Attachment in NEBS                   | Schedules Tab, Equipment Schedule  | 8/15/2020 | 8/15/2020 | Complete |
| 36 | 30 | Review B&G-Owned Rent Schedule  |   | Statewide Schedule                   |  |           | 8/24/2020 | Complete |
| 37 | 31 | Complete Position Reconciliation (Phase I and II) and Process payroll and all schedules a final time  |   | Statewide Schedule                   |  |           | 8/24/2020 | Complete |
| 38 | 32 | Out-of-Balance Reports - run all exception reports and correct any exceptions   |   | NEBS Tab, Positions & Schedules Tabs |  |           | 7/15/2020 | Complete |
| 39 | 33 | Run the following reports and verify Budget Prep Checklist  |   | Reports Tab, Exception Reports       |  |           | 8/27/2020 | Complete |
|    |    |   |   | Reports Tab, Budget Account Reports  |  |           |           |          |

Budget Prep Checklist

# Certification Letter



STEVE SISOLAK  
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

## 2021-2023 Biennial Budget Certification Letter

The Commission on Mineral Resources, Division of Minerals submitted our agency requested budget in accordance with the 2021-2023 Budget Instructions.

Budget Accounts included:  
BA 4219

Agency Contact:

Michael Visher, Administrator – Division of Minerals, [mvisher@minerals.nv.gov](mailto:mvisher@minerals.nv.gov)

By signing below, I certify that:

1. Narrative Information for all budget accounts under the department/agency listed above, including the program description, budget highlights, decision unit synopsis, and line item justification has been updated and/or added as necessary to properly reflect the budget being requested.  
☒ Yes ☐ No ☐ N/A
2. All fiscal information, including Base, Maintenance and Enhancement Decision Units has been added, updated and reconciled for all budget accounts under the department/agency listed above, to properly reflect the agency budget being requested.  
☒ Yes ☐ No ☐ N/A
3. We have complied with the Budget Request Limit per All Agency Memo.  
☐ Yes ☐ No ☒ N/A
4. Enhancement decisions units have been prioritized and include maintenance items to continue operations.  
☒ Yes ☐ No ☐ N/A
5. Supporting documentation, such as caseload statistics, is attached where appropriate and calculations have been provided where necessary to show how figures were derived.  
☒ Yes ☐ No ☐ N/A
6. Inter-departmental transfers (E-9xx) and intradepartmental transfers (M-8xx/E-8xx), including any cost allocations, have been reconciled to ensure the sending and receiving accounts balance to one another.  
☒ Yes ☐ No ☐ N/A

7. Fund Mapping has been completed at the:
  - o Line Item, and  
☒ Yes ☐ No ☐ N/A
  - o Activity.  
☒ Yes ☐ No ☐ N/A
8. Activity Budget has been updated to include:
  - o Updated metrics for performance measures.  
☒ Yes ☐ No ☐ N/A
  - o Updated population information.  
☐ Yes ☐ No ☒ N/A
9. Organizational Charts are attached or have been submitted separately:
  - o By Position, and  
☒ Yes ☐ No ☐ N/A
  - o By Program.  
☐ Yes ☐ No ☒ N/A
10. Requests for supplemental appropriations have been completed and include adequate justification, supporting documentation and calculations detailing how the amount was derived.  
☐ Yes ☐ No ☒ N/A
11. Budgetary Bill Draft Requests necessary to implement the requested budget have been submitted in NEBS and are properly referenced in the notes of the related decision unit(s).  
☐ Yes ☐ No ☒ N/A
12. Decision units submitted to address previously passed legislation, letters of intent from the 2019 Legislative Session, and/or to implement recommendations from LCB Audit or GFO's Division of Internal Audits have been included along with sufficient narrative explaining the issue being addressed.  
☐ Yes ☐ No ☒ N/A

  
Authorized Signature  
(Commission Chairman)

September 1, 2020  
Date

# Budget Process outside of our Agency's Control

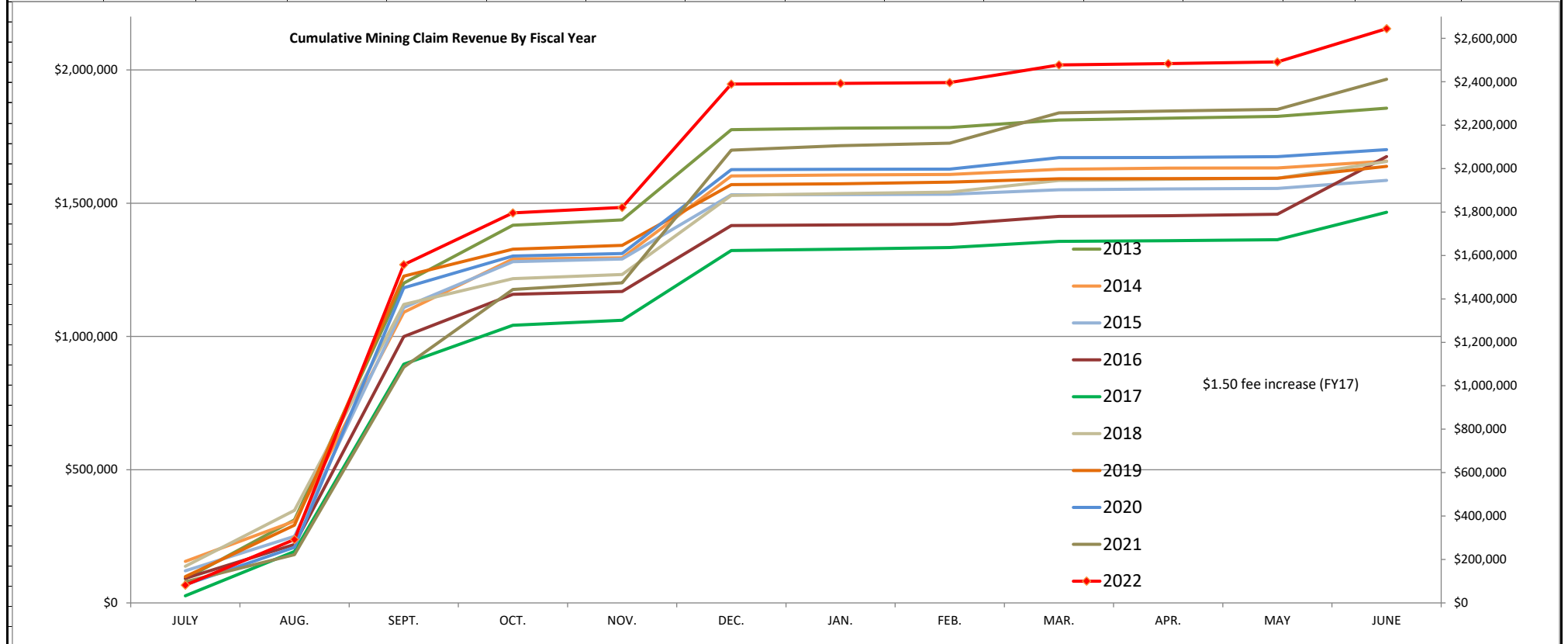
These items may happen during the Governor's recommended budget or the Legislative Session:

- Furlough
- Merit Pay increase
- Cost of living adjustment's
- Allocations for Public Employee Benefit Program or Public Employee Retirement System



**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 |  |
|---|-----------|-----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------|---------------------|--|
| 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 | \$2,644,530 | 9.7%   | 264,453             |  |
| 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             |  |
| 2013  | \$90,253  | \$311,806 | \$1,199,622 | \$1,417,171 | \$1,437,104 | \$1,775,803 | \$1,781,575 | \$1,783,870 | \$1,812,217 | \$1,818,745 | \$1,825,571 | \$1,856,460 | -2.8%  | 218,407             |  |
| FY22 data as of 8/2/22  |           |           |             |             |             |             |             |             |             |             |             |             |        |                     |  |
| 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 |           |           |             |             |             |             |             |             |             |             |             |             |        |                     |  |
|   |           |           |             |             |             |             |             |             |             |             |             |             |        |                     |  |
|   |           |           |             |             |             |             |             |             |             |             |             |             |        |                     |  |



| CMR-Division of Minerals - 2021-2025 Budgets and Forecasts (as of 7/29/2022) |  |              |             |             |               |               |               |               |   |
|--|--|--------------|-------------|-------------|---------------|---------------|---------------|---------------|---|
| Revenue  |  |              |             |             |               |               |               |               |   |
| GL #   | Description  | FY21 Actuals | FY22 Budget | FY22 YTD    | FY22 Forecast | FY23 Forecast | FY24 Forecast | FY25 Forecast | Remarks   |
| 2511   | Balance Forward Previous Year  | 1,871,712    | 2,585,143   | 2,585,143   | 2,585,143     | 2,790,003     | 2,413,367     | 2,327,935     |   |
| 3578   | BLM Grant  | 202,473      | 200,000     | 200,000     | 200,000       | 200,000       | 200,000       | 200,000       | BLM grant funding AML work. \$200k grant awarded 9/6/21, anticipate similar amount thru FY25  |
| 3580   | USFS Assistance Agreement  | 28,039       | 10,772      | 80,349      | 80,349        | 80,000        | 80,000        | 80,000        | USFS assistance funding AML work  |
| 3584   | NPS Grant  |              | 94,092      | 77,787      | 77,787        | 0             | 0             | 0             | National Park Service funding for AML work (unknown future funding)   |
| 3654   | Oil Production Fee   | 20,508       | 37,907      | 22,668      | 22,668        | 25,000        | 25,000        | 25,000        | \$0.15 per bbl fee for oil production annually (\$0.05 from 12/20 - 10/21)  |
| 3717   | Oil Permit Fees  | 2,500        | 3,300       | 4,400       | 4,400         | 4,400         | 4,400         | 4,400         | Permit fees for new oil and gas wells   |
| 3718 & 3727  | Mining Claim Fees  | 2,411,550    | 2,114,150   | 2,576,740   | 2,644,530     | 2,644,530     | 2,538,749     | 2,437,199     | Mining Claim fees @ \$10/claim filing, flat for FY23, -4% for FY24, -4% for FY25  |
| 3736   | Geothermal Fees  | 143,850      | 160,800     | 156,550     | 156,550       | 156,550       | 156,550       | 156,550       | Annual fee and permit fees for geothermal wells and permitting  |
| 3740   | Dissolved Mineral Resource Fees  | 0            | 2,000       | 8,000       | 8,000         | 8,000         | 8,000         | 8,000         | Permit fees for DMR (lithium brine) well permits  |
| 3770   | Surface Disturbance Fee (AML)  | 102,180      | 81,740      | 90,940      | 90,940        | 80,000        | 80,000        | 80,000        | \$20 per acre fee for new mine surface disturbance, FY23=12-year avg.   |
| 4011   | Copy Machines - Sales to Public  | 15           | 27          | 0           | 0             | 0             | 0             | 0             | Copying charge for Public Records Request   |
| 4027   | Publication Sales (AML signs)  | 1,556        | 1,210       | 2,937       | 2,937         | 2,937         | 2,937         | 2,937         | AML signs sold at office  |
| 4218   | Credit Card Rebate   |              | 0           | 294         | 294           | 294           | 294           | 294           |   |
| 4311   | Medallion Royalty Fee  | 788          | 1,304       | 253         | 253           | 253           | 253           | 253           | Fee for minting of medallions with State seal remitted to NDOM  |
| 4326   | Treasurer's Interest   | 12,998       | 40,990      | 16,858      | 22,000        | 22,000        | 22,000        | 22,000        | Interest we receive for money deposited with Treasurer  |
| 4620   | Transfer from Recl. Bond Pool  | 63,695       | 80,793      | 58,057      | 58,057        | 60,000        | 60,000        | 60,000        | Fee from Bond Pool for NDOM Management  |
| 4669   | CARES Act Reimbursement  | 10,320       |             |             | 0             | 0             | 0             | 0             | Federal funds used to offset pandemic related expenditures  |
|  | REVENUE TOTAL  | \$4,872,185  | \$5,414,228 | \$5,880,976 | \$5,953,907   | \$6,073,967   | \$5,591,550   | \$5,404,568   |   |
|  |  |              |             |             | 3,368,765     |               |               |               |   |
| Expenditures   |  |              |             |             |               |               |               |               |   |
| CAT #  | Description  | FY21 Actuals | FY22 Budget | FY22 YTD    | FY22 Forecast | FY23 Forecast | FY24 Forecast | FY25 Forecast | Remarks   |
| 01   | Personnel (Sal.,WC, PERS,OT)   | 1,156,212    | 1,296,101   | 1,133,108   | 1,336,101     | 1,372,893     | 1,428,611     | 1,457,168     | FY22/23 is as in Leg-Approved Budget plus \$40k (OT), 1% COLA (FY23), plus \$30k retirement payout ('23), FY24 +86k new GIS (9 mos.), FY25 +114k (GIS)  |
| 02   | Out-of-State Travel (Staff, CMR)   | 0            | 23,365      | 16,381      | 23,365        | 25,000        | 33,642        | 38,357        | FY23 as in budget, FY24/25 as proposed  |
| 03   | In-State Travel (Non-AML)  | 2,084        | 12,049      | 11,408      | 12,049        | 12,900        | 15,425        | 15,425        | Travel, lodging and per-diem within State, as in budgets  |
| 04   | Carson Operating Expenses+Equipment  | 95,031       | 112,893     | 105,515     | 112,893       | 113,134       | 122,992       | 122,992       | Rent, Operating supplies, as in budgets   |
| 05   | Equipment  | 0            | 1,297       | 1,210       | 1,297         | 1,706         | 3,960         | 3,999         | Desks, chairs, as in budget   |
| 08   | CMR Travel (In-State)  | 422          | 7,128       | 1,712       | 2,200         | 7,128         | 7,128         | 7,128         | As in Budget  |
| 09   | Special Projects (Mackay, NBMG)  | 209,936      | 224,506     | 152,016     | 152,016       | 234,800       | 225,600       | 144,200       | FY23 \$97.2k (NBMG-base contract), \$75.6k (FY23 NBMG-Lithium and RRV), \$27k (PDAC), \$5k (AME), \$15k (NvMA Ed), \$15k (McCaw); FY24-\$97.2k (NBMG base), \$38.2k (NBMG Mining District Files Scanning), \$43.2k (NBMG Soda Lake Geo), \$47k (PDAC/AME/NvMA Ed); FY25-\$97.2k (NBMG base), \$47k (PDAC/AME/NvMA Ed) |
| 14   | Las Vegas Operating Expenses   | 32,667       | 44,078      | 41,575      | 44,078        | 44,078        | 41,552        | 42,479        | As in budgets   |
| 17   | Fluid Minerals   | 7,583        | 15,561      | 12,884      | 11,981        | 11,983        | 18,955        | 18,955        | Field expenses for OGG and DMRE, as submitted in State Budget   |
| 18   | AML Support (per diem, trucks, fuel, AML supplies and travel, SOSA supplies) | 146,764      | 195,179     | 127,738     | 195,179       | 197,017       | 216,719       | 216,719       | Up to 8 summer interns and 4 winterns FY23-25; includes one new truck each year   |
| 25   | CARES Act Expenditures   | 10,320       | 0           | 0           | 0             | 0             | 0             | 0             |   |
| 26 & 82  | Computer and IT  | 43,754       | 40,701      | 34,352      | 40,701        | 35,871        | 45,113        | 24,132        | Computer hardware/replacements; EITS services and support   |
| 30   | Training   | 4,721        | 7,092       | 7,092       | 7,092         | 7,092         | 8,225         | 8,225         | ESRI and other training   |
| 39   | AML Enhancements(contracts, equip.)  | 481,463      | 1,072,290   | 1,134,260   | 1,134,260     | 1,125,000     | 1,005,000     | 955,000       | \$800k/yr contracted AML closure and related work. Work not completed in '21 pushed into '22. \$50k/yr CL Cty revisits (thru 24), \$30k LV UTV (FY22), \$50k/yr geo analysis, \$75k/yr cultural surveys, \$10k/yr helicopter surveys, \$20k/yr billboards, \$120k digital media campaign (FY23)                       |
| 42   | Public Agency AML Securing   |              |             |             |               | 400,000       | 0             | 0             | Any unspent funds from FY23 would be transferred to FY24  |
| 87 & 88 & 89   | Cost Allocations (State, Purchasing, AG)                                     | 96,085       | 90,693      | 90,693      | 90,693        | 71,998        | 90,693        | 90,693        | Purchasing assessment, AG cost allocation, State cost allocation  |
|  | EXPENDITURE TOTAL  | \$2,287,042  | \$3,142,933 | \$2,869,944 | \$3,163,905   | \$3,660,600   | \$3,263,615   | \$3,145,472   |   |
| 86   | Reserve - Balance Forward to Next Year                                       | \$2,585,143  | \$2,271,295 | \$3,011,031 | \$2,790,003   | \$2,413,367   | \$2,327,935   | \$2,259,096   |   |
|  |  |              |             |             | \$1,218,536   | \$583,067     | \$696,127     | \$686,360     | Reserve Amount in excess of "50% of Expenditures" guidance  |

### **III. B Overview of the Nevada Mining Center of Excellence and Request for Support**

# UNIVERSITY OF NEVADA, RENO *AND* GREAT BASIN COLLEGE

## MINING COLLABORATION UPDATE

Nevada Division of Minerals  
Commission on Mineral Resources  
August 10, 2022  
Annie Huhta, Director Mackay School



University of Nevada, Reno  
A National Tier 1 University





# COLLABORATION CONCEPT

## TO BE WHERE MINING IS

Bringing mining education full-circle back to Elko

## IMPROVE SERVICES AND ADD VALUE

With a foundation of collaboration integrated services will target industry value addition

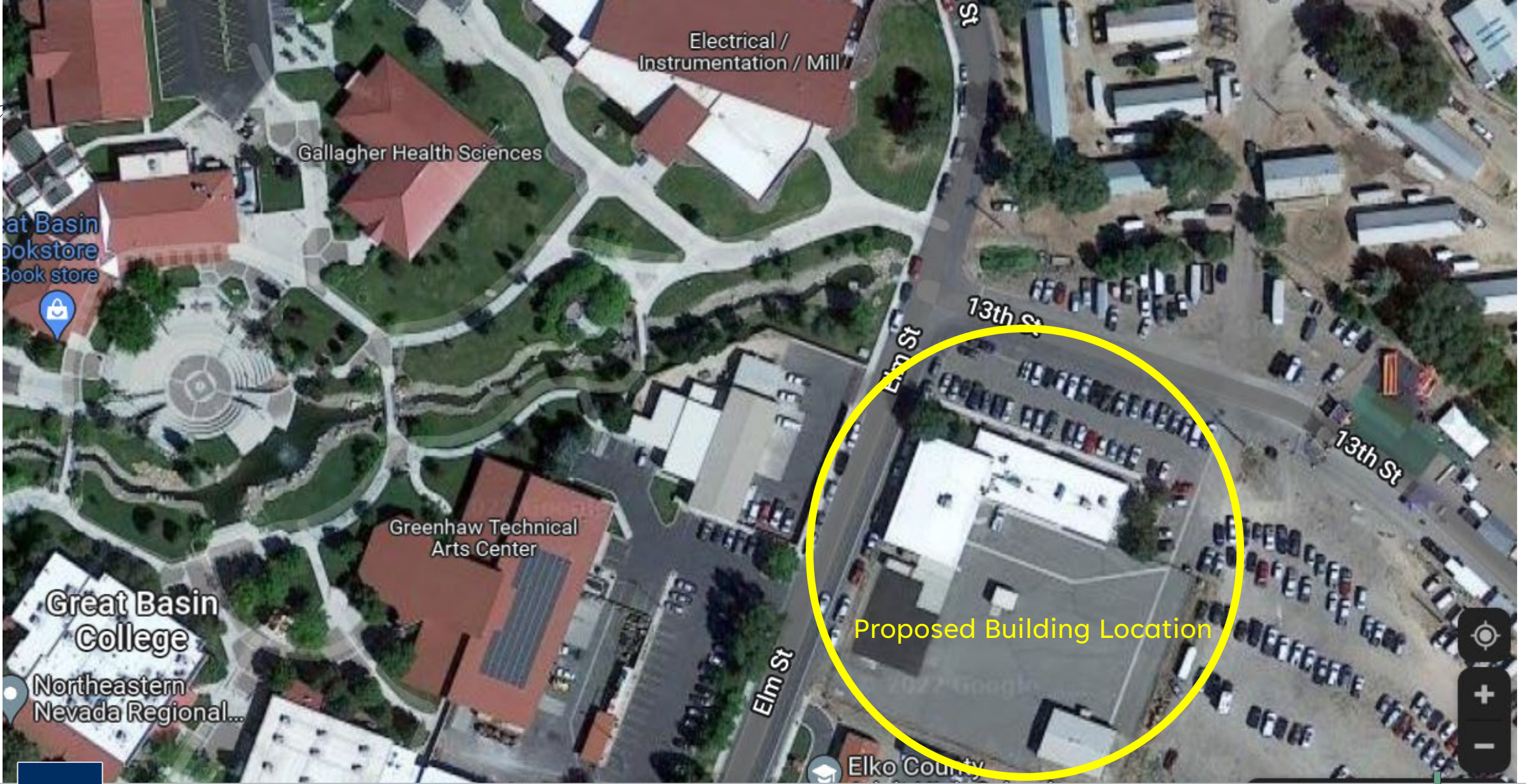
## PRIORITIZE TALENT GROWTH

From dual-credit high school certificates, to reskilling, and professional development – talent growth is the primary goal



University of Nevada, Reno  
A National Tier 1 University





University of Nevada, Reno  
A National Tier 1 University

**MACKAY**  
School of Earth Sciences & Engineering  
College of Science | [www.unr.edu/mackay](http://www.unr.edu/mackay)





## Building Space:

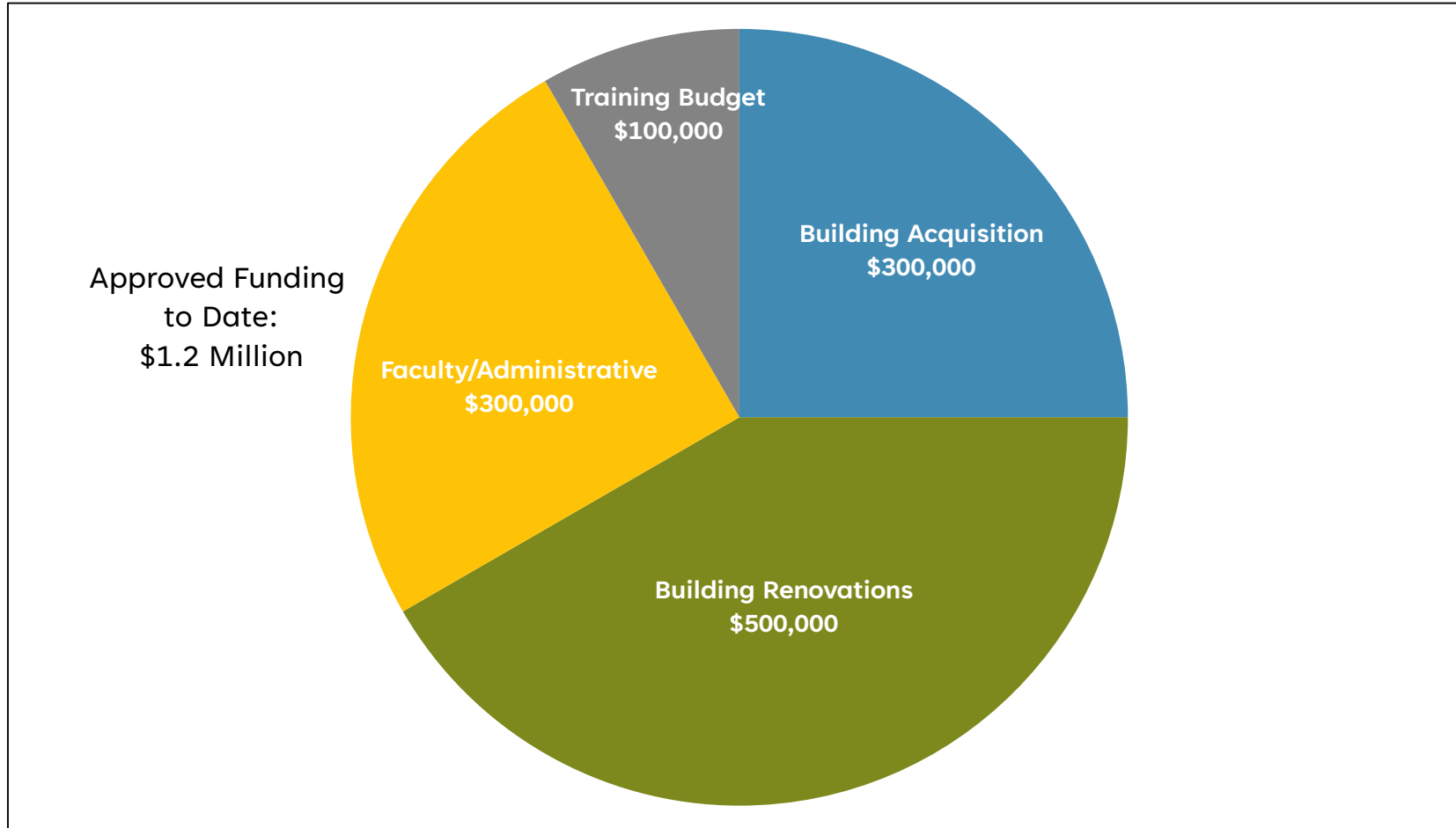
- 3-4 Classroom Spaces
- 3-4 Office Spaces
- Ample Parking
- Large Lab Space
- Secure Footprint
- Easy Access



University of Nevada, Reno  
A National Tier 1 University



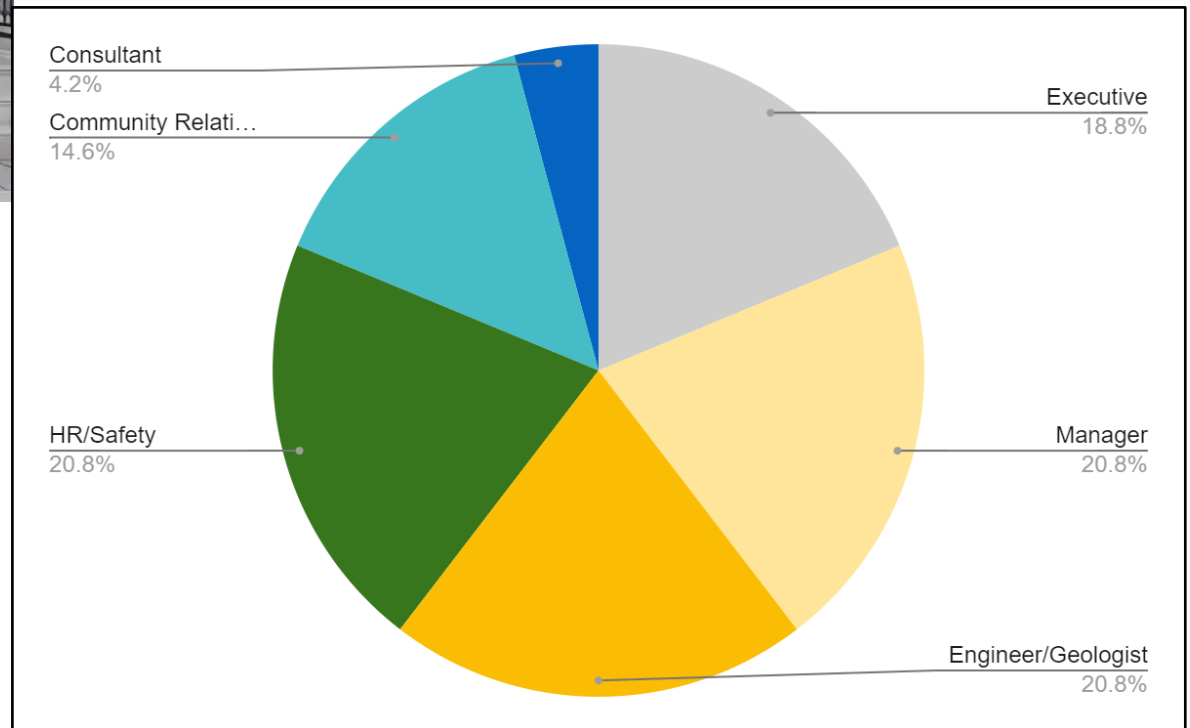
# INITIAL FUNDING ALLOCATIONS





The Excellence in Mining Team, along with GBC President Helens and UNR Provost Thompson welcomed 48 industry partners to an MCE working session in Elko in the beginning of April to provide programmatic feedback and ideas.

# INDUSTRY SUMMIT ATTENDANCE ELKO, NV APRIL 2022



University of Nevada, Reno  
A National Tier 1 University

**MACKAY**  
School of Earth Sciences & Engineering  
College of Science | [www.unr.edu/mackay](http://www.unr.edu/mackay)



# INDUSTRY SUMMIT

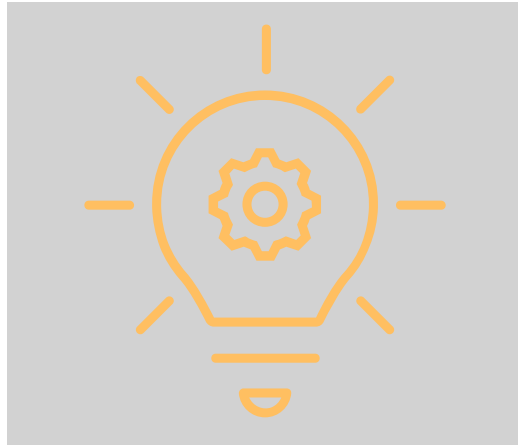
## *OUTCOMES: PHASE I*

### ELKO, NV APRIL 2022

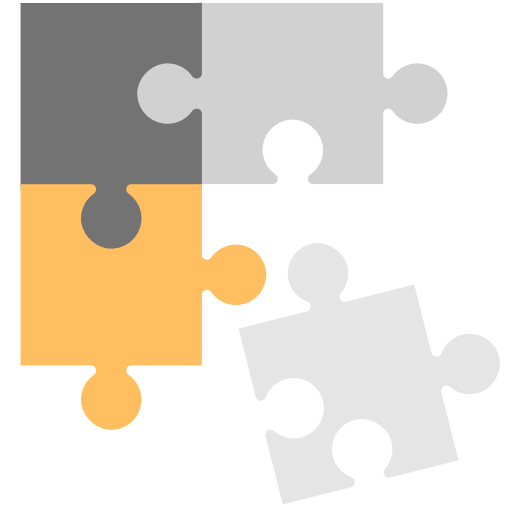
- Education



- Industry research



- Community outreach

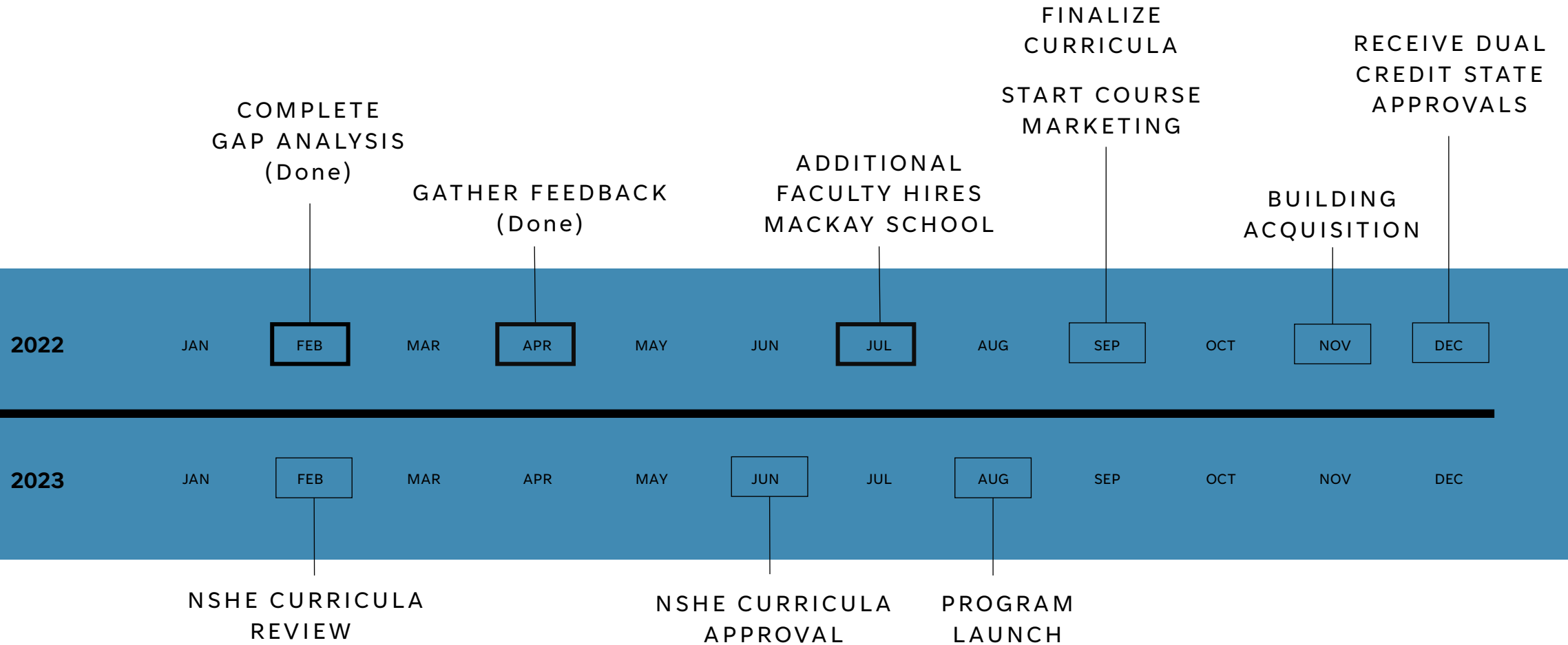


# PHASE I COLLABORATION DELIVERABLES

- Expand the number of skill-cert and 1-year technical trade certifications offered within the collaboration.
- Expand current high school dual credit offerings, including the newly crafted technical trade certifications mentioned above.
- Ensure consistency in course offerings across all certificate and degree programs and across all locales.
- Include industry partners in all aspects of student education from curricula design to classroom visit and instruction to case study examples involving industry research opportunities.
- Integrate community engagements to promote opportunities within the mining industry and to connect educational pathways to successfully advance those opportunities.
- Create pathways for all technical trade certifications offered through the collaboration to connect to 4-year degree programs offered within the Mackay School.



# TIMELINE FOR MINING CENTER OF EXCELLENCE CONCEPT GOALS AND OBJECTIVES



THANK YOU!



ANNIE HUHTA



775-782-8735



AHUHTA@UNR.EDU

NEVADAMINING.ORG/ISCORE



University of Nevada, Reno  
A National Tier 1 University



**Date:** August 10, 2022

**Project Title:** Request Sponsorship to Purchase Laboratory Equipment in Support of the Educational and Community Outreach Goals for the Nevada Mining Center of Excellence

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

**Summary:** The Mackay School of Earth Sciences and Engineering is working in partnership with Great Basin College to establish a proposed “Nevada Mining Center for Excellence” (MCE) in Elko, Nevada. The MCE seeks to further collaborative engagement, innovation, research activities, and educational activities for the future of mining and associated industries in Nevada. The laboratory equipment requested will provide hands-on educational and training opportunities for high school and college students, and current mining professionals, alike. Laboratory equipment will also be used to engage community outreach focused on fun, educational ‘STEM’ interactions.

Initial educational programming will launch in the fall of 2023 providing dual credit coursework for juniors and seniors in rural Nevada high schools. These dual credit courses will introduce mineral resource, geology, mining and metallurgy, health and safety, economic, and sustainable mining concepts. Upon graduating from high school students will be able to transfer earned credits to continue their education at either the Mackay School or Great Basin College.

**Project Lead:** Annie Huhta Director, Mackay School of Earth Sciences and Engineering, UNR

**Requested CMR Sponsorship:** \$146,000

**Laboratory Equipment Needs:**

Unconfined Compression Testing Machine - \$65,000

The machine can test the compressive and tensile strength of diamond drill core which can be used to quantify the behavior of each rock strata allowing for the use of rockmass classification systems to estimate the effective rockmass strength.

Crushing & Grinding Lab Equipment - \$50,000

To demonstrate how metals can be liberated the ore must first be comminuted down to micron sizes. This crusher and mill is appropriate for lab scale rock samples (~2-3 inches) samples (25-50 lbs).

3D Topographical and Digital Sand Table - \$31,000

3D sand tables are useful design tools for learning about surface mine engineering techniques and are great for school children of all ages to demonstrate how topography changes are important as they change infrastructure requirements.



University of Nevada, Reno  
A National Tier 1 University

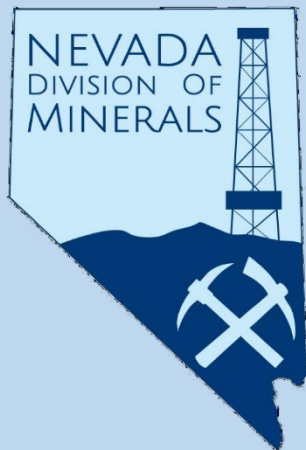


### **III. C Overview of the 2022 PDAC Annual Conference**

# Prospectors and Developers Association of Canada Annual Conference

Commission on Mineral  
Resources Meeting

10 August 2022



**Garrett Wake**  
**Nevada Division of Minerals**  
**702-486-4344**  
[gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)  
[minerals.nv.gov](http://minerals.nv.gov)



# Overview

1. PDAC: What, When, Where
2. NDOM Role in Participating (the “Why”)
3. Performance Metrics
4. Collaboration
5. Budget / Actual Expenditures



# PDAC: What, When, Where

From PDAC website: “The World’s Premier Mineral Exploration & Mining Convention is the leading convention for people, governments, companies and organizations connected to mineral exploration.”

- Annual convention is held in Toronto, Canada
- Typically takes place in March (June this year due to COVID restrictions & concerns)
- Three-day event: exhibitor hall, technical program, networking
- >17,000 attendees in 2022



**NEVADA**  
*Stake your claim*

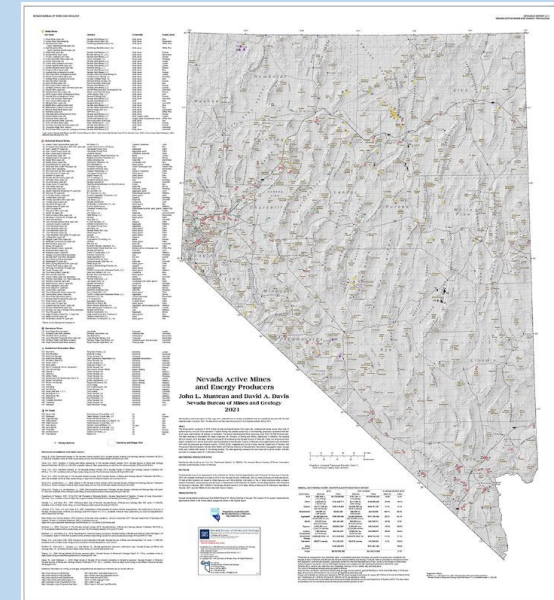
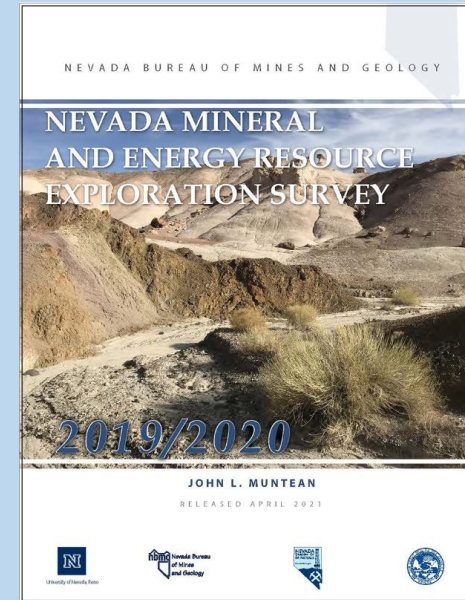
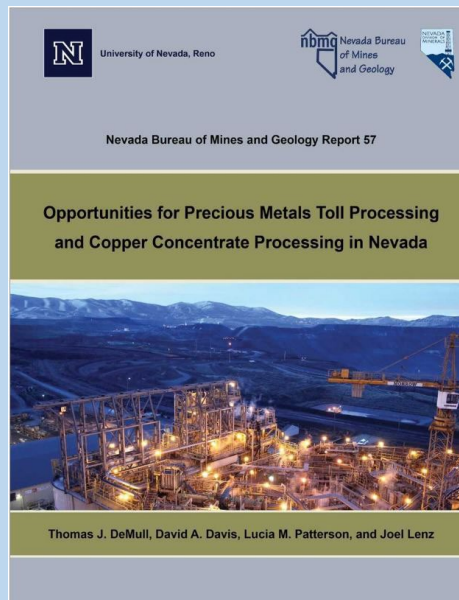
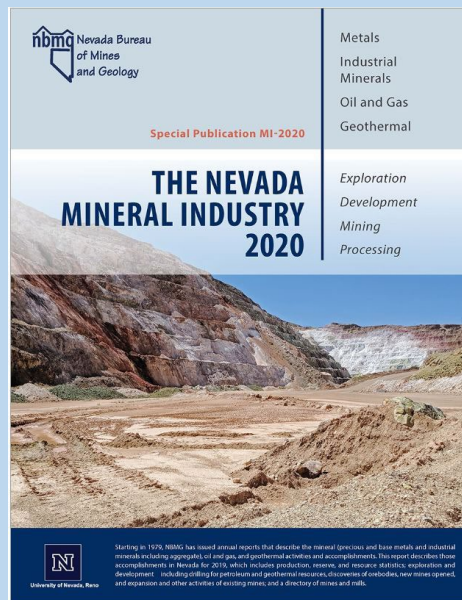
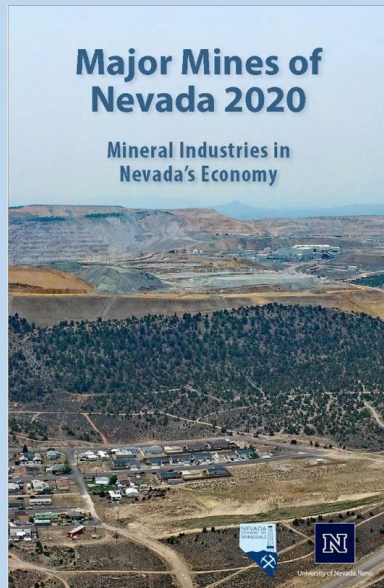
## PDAC Members

|                           |              |
|---------------------------|--------------|
| Canada                    | 5,141        |
| USA                       | 731          |
| Latin America & Caribbean | 595          |
| Europe                    | 378          |
| Australia                 | 236          |
| Africa                    | 195          |
| Asia                      | 187          |
| <b>TOTAL</b>              | <b>7,463</b> |

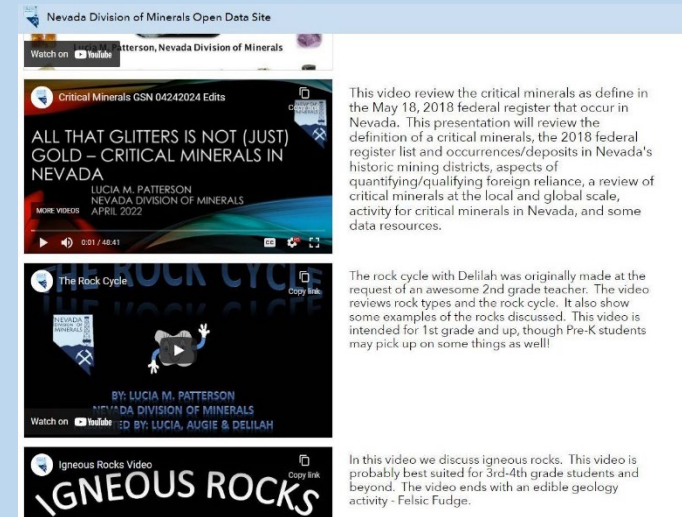
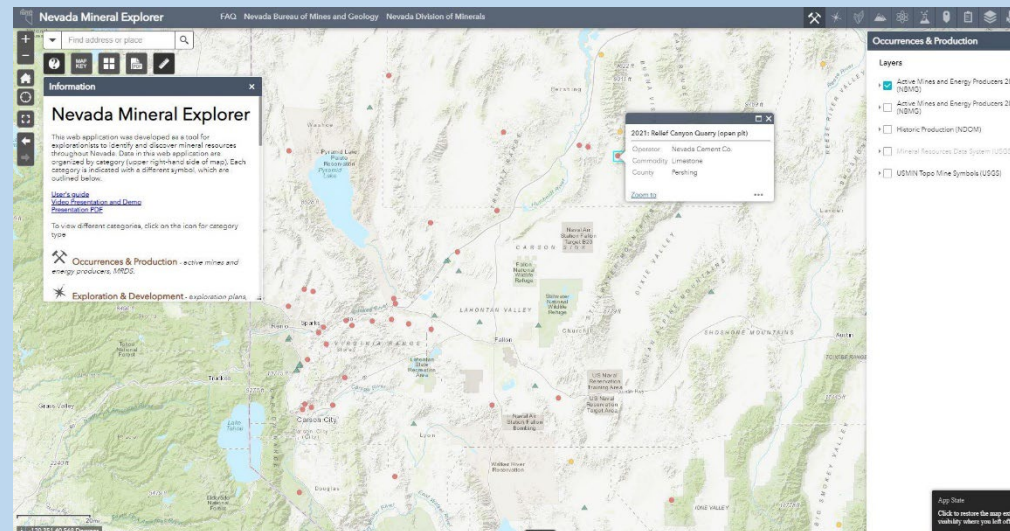
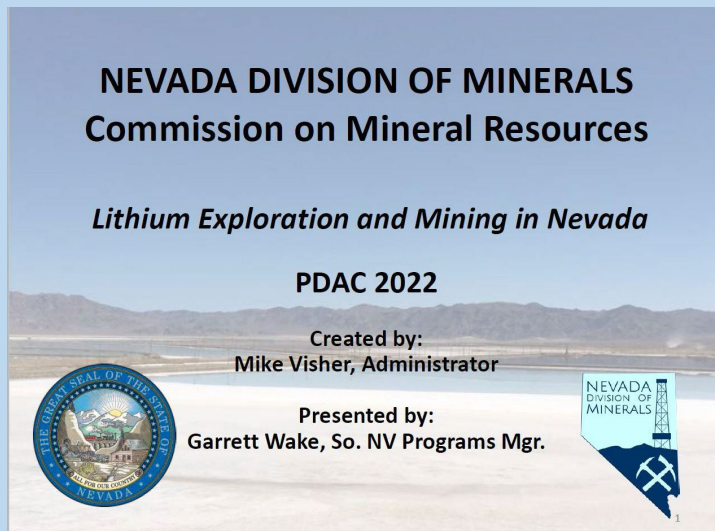
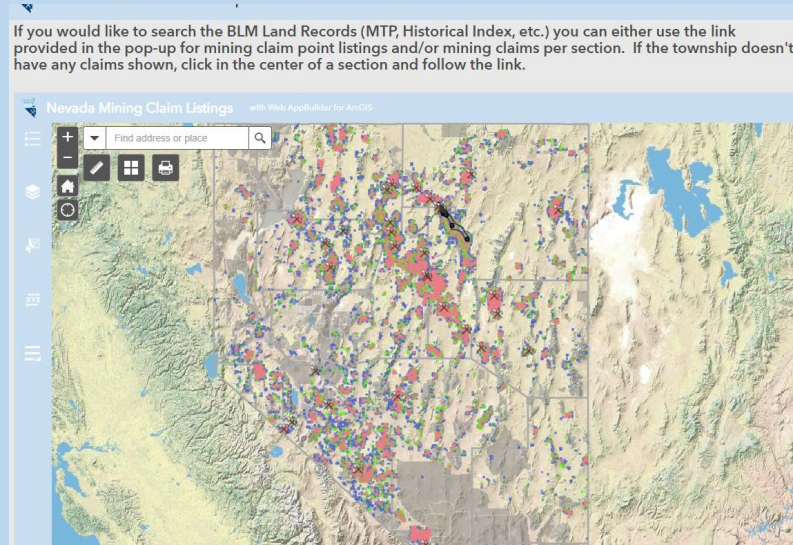


# The Division's Role in Participating (the “Why”)

NRS 513.073(1): Encourage and assist in the exploration for and the production of oil, gas, geothermal energy and minerals within this State.



# The Division's Role in Participating (the "Why") cont.



# Performance Metrics

- Conducted six presentations at the Nevada booth
  - Four by NDOM staff, one by Fortitude Gold, one by Mercury Exploration Nevada, Inc.
    - We open the presentation up to any Nevada organization
  - NDOM presentations had approximately 20 total attendees
    - Lithium overview, critical minerals overview, web-applications for mineral explorers, Nevada mineral production and activity
- One media interview
- Disseminated >250 reports, maps and brochures
- Interacted with >150 individuals with questions on Nevada mining
  - Referred >20 people to partner organizations
    - “How do we become a supplier in Nevada?” – NvMA, NNRDA
    - “Are there incentives for DLE pilot projects in NV” – GoED
    - “Where can I find a list of QPs available for consulting” – GSN

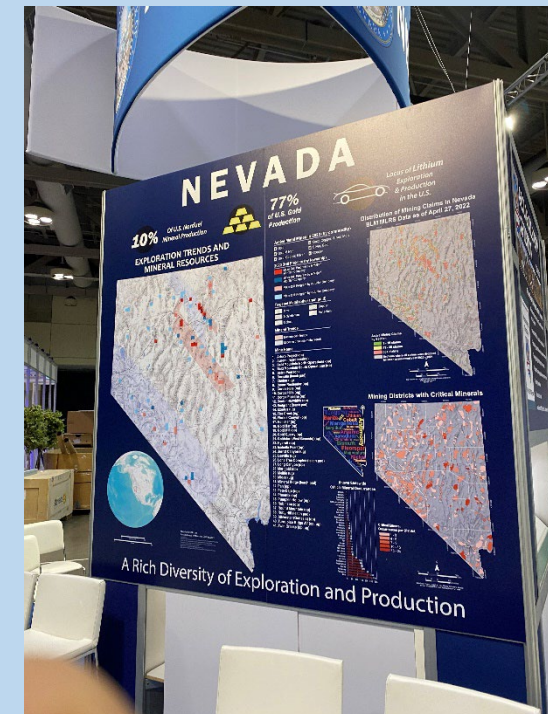
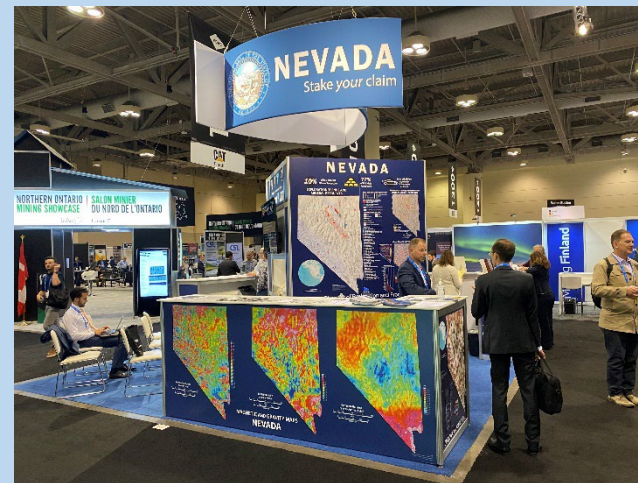


| NEVADA Booth 931 | Presentation Schedule   |
|------------------|---|
|                  | Monday, June 13th   |
|                  | 1:00 - 1:15 PM - Lithium Exploration and Mining in NV<br>Garrett Wake, Nevada Division of Minerals<br>Summary: A brief overview of current lithium and exploration mining operations and trends in Nevada, as well as recent legislation for prospective dissolved mineral explorers.                                 |
|                  | 1:20 - 1:35 PM - Hannapah Property: Resurgence of a 1900s Silver - Gold Camp<br>Al Turner, Fortitude Gold and Lyndsay Blundell, Mercury Exploration Nevada Inc.<br>Summary: Overview of the Hannapah property located 28 kilometres east of Tonopah in Nye County.  |
|                  | Tuesday, June 14th  |
|                  | 11:00 - 11:15 AM - Critical Minerals in NV and Beyond<br>Rob Ghiglieri, Nevada Division of Minerals<br>Summary: A brief overview of critical mineral occurrences, past and current production in Nevada, and a deeper look into each critical mineral including where they are produced and U.S. net import reliance. |
|                  | 11:20 - 11:35 AM - Web-based GIS Applications for Nevada Explorers<br>Garrett Wake, Nevada Division of Minerals<br>Summary: A brief overview of some of the powerful, free web-based GIS tools Nevada explorationists have access to.   |



# Performance Metrics

- Fraser Institute Annual Survey, Table 1: Attractiveness Index
  - 2015 – #3 / 109
  - 2016 – #4 / 104
  - 2017 – #3 / 91
  - 2018 – #1 / 83 \*first year exhibiting
  - 2019 – #3 / 76
  - 2020 – #1 / 77
  - 2021 – #3 / 84



# Collaboration

- GSN and NMEC participated in person this year
- NvMA, NV State BLM, GoED, NBMG attended in past years
- All organizations participate in planning meetings leading up to the conference



# Budget / Actual Expenses

## Budgeted expenses

FY '22 Division approved exhibit budget (CAT 09+04).....\$27,093 (1)

FY '22 Division approved travel budget (CAT 02).....\$8,472 (2)

## Actual expenses

Exhibit graphics printing, electronics and fabrication (09).....\$18,441

Exhibit space (09 + 04).....\$7,176

Shipping costs (09).....\$367

Exhibit miscellaneous (internet, insurance, cleaning) (09).....\$766

**CAT 09 + 04 TOTAL**.....**\$26,753 (1)**

Travel expenses (two employees) (02).....\$3,814

**CAT 02 TOTAL**.....**\$3,814 (2)**

\*Some figures calculated by CAD to USD exchange rate and are preliminary

## **IV. OLD BUISNESS**

## **IV. A Update on the Status of Commission-approved Projects by NBMG**

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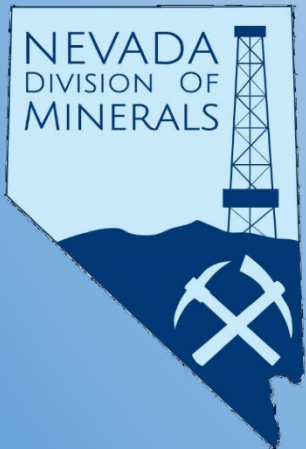
## **IV. B Updated NBMG Special Project Proposal**

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## **IV. C Update on Rock and Mineral Exhibit** **at Reno Discovery Museum**

# Reno Discovery Museum Rock and Mineral Exhibit Completion

**Commission on Mineral  
Resources Meeting  
10 August 2022**



**Garrett Wake**  
**Nevada Division of Minerals**  
**702-486-4344**  
[gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)  
[minerals.nv.gov](http://minerals.nv.gov)



# Overview

1. Design Recap
2. Budget
3. Timeline
4. Documentation of Exhibit Fabrication
5. Final Product

# 1. Design Recap

## Minerals-side of exhibit

Mineral samples (most are mined in NV); minerals light up when flip-board is interacted with

Nevada counties –  
Light up when flip-board is interacted with

Mineral identification tools and properties;  
Moh's Scale of Hardness



Interactive (touch screen)  
mining tour (NvMA)

Ammonite fossil and  
graphic discussing  
mineralization of  
organic remains

Flip-board graphic showing  
common minerals used in  
things around a home

# 1. Design Recap cont.

## Rocks-side of exhibit

Rock-forming environments graphic; lights up when interacted with (NBMG)

Rock samples with information on identification, formation, and use in society; interactive buttons light up graphic above



Generalized geologic map of Nevada (NBMG)

Rock-cycle graphic

Rock identification game

Electronic microscope and display monitor

## 2. Reno Discovery Exhibit Cost Breakdown

CMR-approved budget.....\$49,499

Total (actual cost), paid out in three phases.....\$49,499

### Breakdown

- Phase I – Review and modify design of exhibit.....\$10,000
- Phase II – Fabrication, delivery and installation.....\$37,500
- Phase III – Technical Manual.....\$1,999
- Interactive Mine Tour software (NvMA).....no cost, donation
- Rock and mineral samples provided by NDOM & partners

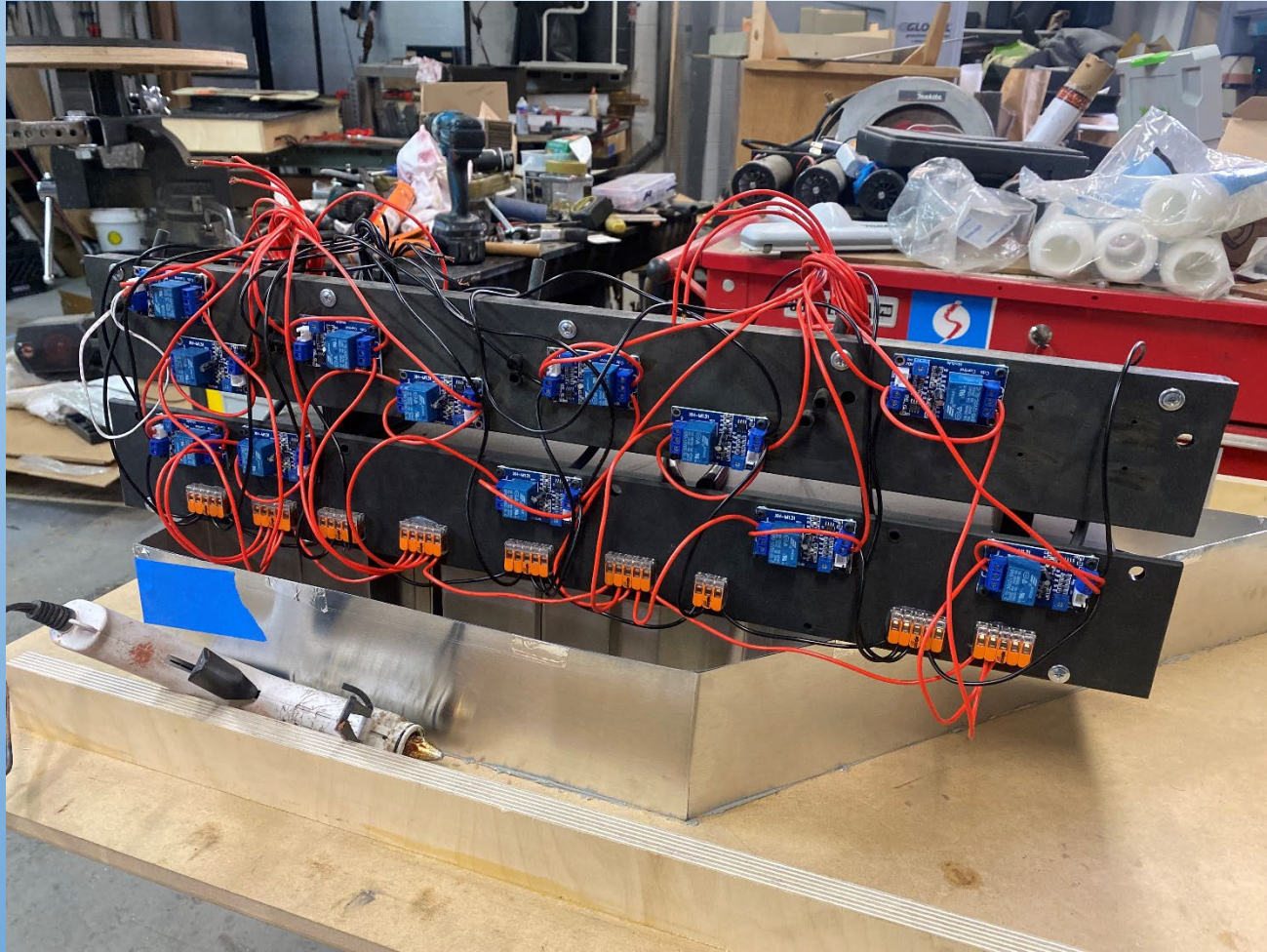
### 3. Timeline

- July, 2021: Funding for exhibit approved by CMR
- Nov, 2021: Work program completed by NDOM
- Dec, 2021: Work program approved by IFC, signed by BoE
- Feb, 2022: NDOM DAG approved contractor's Rejection of Industrial Insurance waiver, work on exhibit commenced
- April, 2022: Contract adjusted to end on June 30, 2022.
- June 25, 2022: Exhibit delivered and installed
- June 26, 2022: Contractor made minor corrections at NDOM request, exhibit signed-off by NDOM, technical manual received
- June 27, 2022: NDOM initiated payment, contract closed out

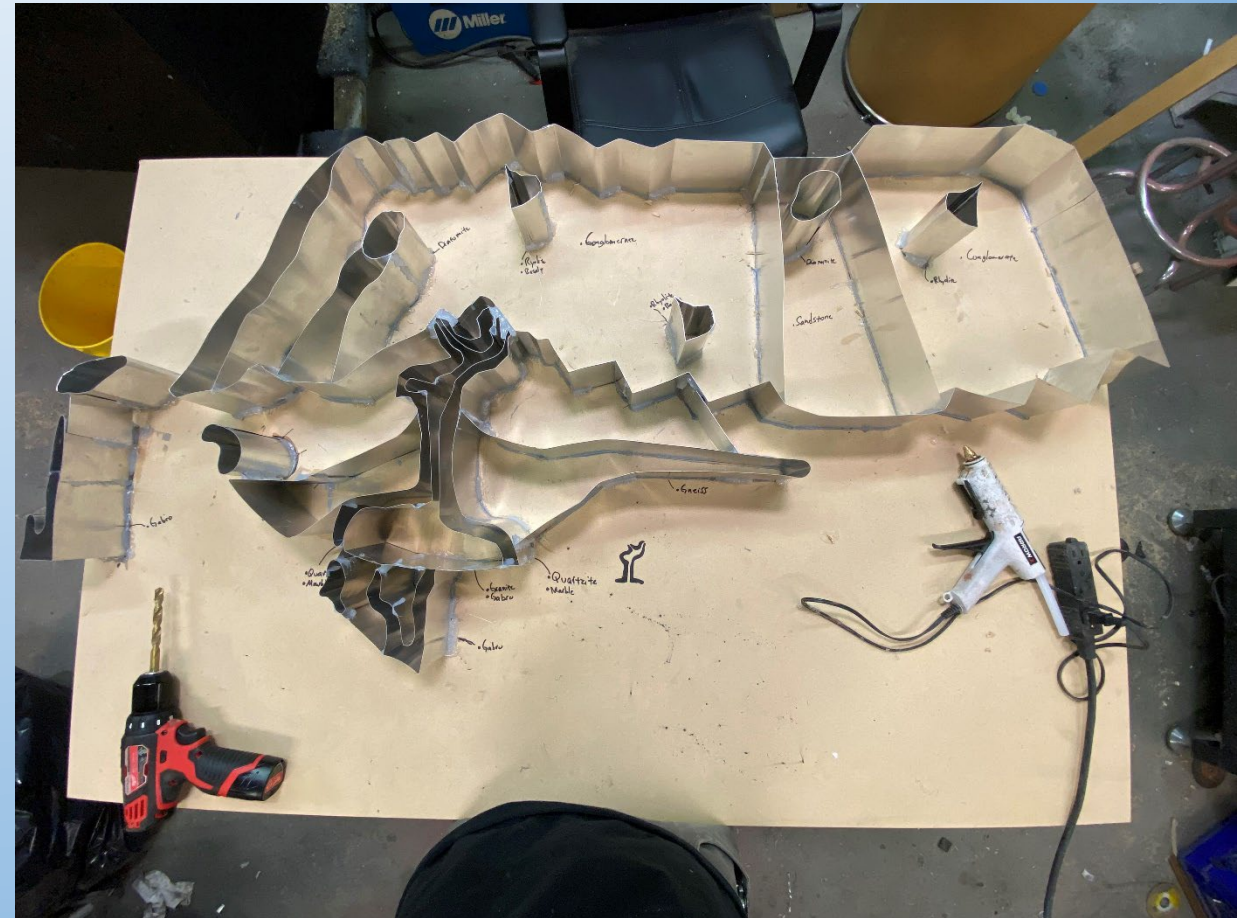
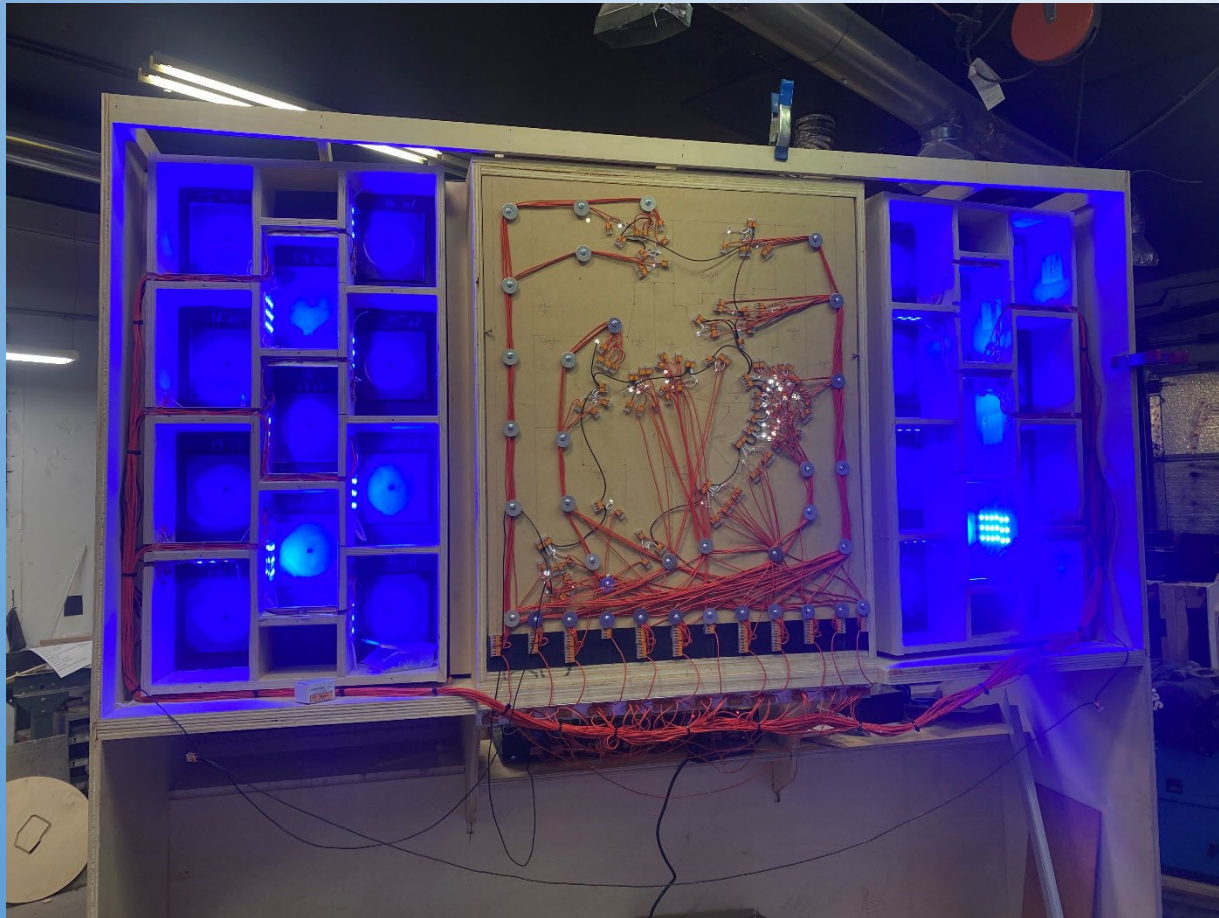
## 4. Documentation of Exhibit Fabrication



## 4. Documentation of Exhibit Fabrication cont.



## 4. Documentation of Exhibit Fabrication cont.



## 5. Final Products



## 5. Final Products cont.



# 5. Final Products cont.

## Technical Manual

Minerals Owners Manual V.1



Nevada Division of Minerals. (Reno)

Built by 3saurus LLC  
Billy Beddow  
Owner  
[3saurus@gmail.com](mailto:3saurus@gmail.com)  
805-208-5046

### Touchscreen

#### 1) Removing touchscreen from Component.

- Disconnect all plastic wire protectors and wires.
- \*\*Two persons recommended for the next step
- Remove for screws from back of monitor and set aside.



- Pull wires through Component
- Remove two black Allen bolts and set aside.



#### 1) Twelve red push button Plate with Minerals enclosed in hemispheres.



\*\*All LED lighting and wiring are accessible from back of component.

#### Removing Plates

- Each plate is mounted with four screws.
- Each Mineral is mounted to black Skatelite then glued to the back of the plate.



- No need to remove the graphic to access sensors.
- All sensors and wiring are accessible from the back of the component.
- Each sensor/flip board will light up corresponding Counties and mineral samples (Blue LEDs)

### 3) Ammonite Fossil



#### 1) Removing turntable from Component.

- Disconnect all plastic wire protectors and wires.
- Pull wires through Component and Stainless steel post.
- \*\*Two persons recommended for the next two steps
- 1. Remove single black Allen bolt underneath telescoping square tubing (Telespar)

Placeholder for video of exhibit

Funded by the  
**Nevada Commission on Mineral Resources**

Design and Fabrication by  
**3saurus LLC**  
**Nevada Division of Minerals**

Special Thanks

Nevada Mining Association  
Nevada Bureau of Mines and  
Geology

MP Materials (Mountain Pass Mine)  
Bill Durbin  
Kathryn Beddow

## **IV. D Update on AML Hard Closure Fund Program**

NEVADA PUBLIC AGENCIES ABANDONED MINE LAND PHYSICAL SAFETY HAZARDS CLOSURE FUNDING  
REQUEST GUIDELINES  
**NPA AML Closure Request Form**

### **Overview**

The purpose of this program is to allow public agencies within the state of Nevada to apply for funding from the Division of Minerals (the Division) to close dangerous abandoned mines lands (AML) hazards on land they own or control.

The Division has limited manpower to prepare and manage additional closure projects throughout the state; however, public agencies that have the capability to prepare, manage and successfully complete AML hard-closure projects may apply for funding from the Division.

Requests will be assessed and approved based on a variety of factors, including: the ability to plan, investigate and prepare a scope of work for projects; manage projects; provide funding and/or in-kind resources towards projects; project proximity to population centers, highways, and recreation areas; relative danger of project hazards; and project timeline.

Project funding is contingent upon Division approval, completed interlocal agreement, Nevada Board of Examiners approval and completed project or phase review and sign-off by Division staff. The Division may allow for phased payments if defined in scope of work. Payments are made only after completion of phases or projects.

### **Required Documents**

- **Cover letter** on public agency letterhead briefly summarizing project goals, anticipated direct and indirect funding from submitting entity, available in-kind resources and anticipated project timeline;
- **NPA AML Closure Request form;**
- **Project scope of work**, including maps, documentation of aerial imagery survey (Google Earth or other), Hazard Status and Mine Closure Report Form with photographs and GPS coordinates of each abandoned mine (data must have been collected within the past five years), anticipated timeline, anticipated direct and indirect funding sources, in-kind resources available for project, Nevada Department of Wildlife closure recommendations (if required), and other pertinent information;
- **Project estimates**, which may be obtained through the submitting entity's established contracts, the State of Nevada's AML contractor, submitting entity's internal processes, or through other contracting means which abide by applicable Nevada law.

### **Request Workflow**

Review the NPA AML Closure Request Workflow form. Additional information on each step is provided below.

1. Identify parcels owned or controlled by jurisdiction that contain dangerous abandoned mines.

This program is meant to provide funding to close dangerous abandoned mines on privately owned land controlled by the submitting public agency. It is recommended that the submitting entity generate a spatially-referenced polygon file (shapefile, KML, KMZ, etc.) containing only parcels of land that the entity owns or controls. The Division is able to quickly assess whether there are known abandoned mine hazards within spatially-referenced polygon files; therefore, it is recommended that the submitting entity include all jurisdiction-controlled lands for review as there may be additional hazards known to the Division. Send this information to the Division in step 3 of this process.

2. Generate list of APNs with PLSS land legal descriptions.

Generate a table containing all Assessor Parcel Numbers (APNs) and the Township, Range and Sections within which the lands are located. Send this information to the Division in step 3 of this process.

3. Contact the Division for known AML hazard data within the project area.

Contact Sean Derby ([sderby@minerals.nv.gov](mailto:sderby@minerals.nv.gov)) and CC Garrett Wake ([gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov)) with your intent to begin the request process. Include as an attachment the spatially-referenced polygon file (step 1) and the table of parcels (step 2). You may also contact the Division if you have questions or need assistance with this process.

4. The Division will review the submitted data and respond with spatially-referenced point data of abandoned mine hazards within the project boundaries.
  - a. Review and confirm that the AML hazards provided by the Division are located within public agency-owned or controlled lands.
  - b. Conduct aerial reconnaissance of the project area using Google Earth or other means to identify other potential uncatalogued dangerous abandoned mines within the project area. Reference AML data sent by the Division to not duplicate efforts. The Division's AML dataset is the best available information; however, previously unidentified hazards are cataloged regularly.
5. Conduct field surveys to verify coordinates and status of known hazards and investigate other potential hazards

Review the site-specific abandoned-mine-hazard data sent by the Division in step 4. Conduct in-person field visits of each documented hazard and any potential uncatalogued hazards identified by aerial reconnaissance. Visits must be documented by photograph and updated GPS coordinates must be collected for each site. This information is required for the Division to consider a funding request.

6. Prepare a scope of work and submit collected data to the Division.

- a. Complete a Hazard Status and Mine Closure Report Form, to document known and newly discovered abandoned mine hazards assessed during step 5. Send this form with photographs of each hazard to [sderby@minerals.nv.gov](mailto:sderby@minerals.nv.gov) and CC [gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov).
  - b. Prepare a project scope of work which details the anticipated funding for the project from all sources, including direct, indirect (grants, etc.), and in-kind sources; a timeline for all major milestones; anticipated contractor(s); and any other important aspects of the project.
7. Obtain one or more cost estimates

Contracting must adhere to applicable Nevada laws and the State of Nevada's, State Administrative Manual (SAM). If the applying public agency has the means to complete work internally an outside contractor may not be necessary. The State of Nevada has an established contract for AML-closure work which may be used to provide estimates and conduct closure work through a joiner.

8. Obtain funding for project work
  - a. Continue to identify and obtain direct and indirect funding for the project. At this step, confirmation of funding from non-Division sources should be sought or funds should be obtained.
  - b. Continue to identify and obtain means of in-kind support. At this step, confirmation of use or availability of materials and resources should be sought or obtained.
9. Complete the *Nevada Public Agencies Abandoned Mine Land Physical Safety Hazards Closure Funding Request* form.
10. Prepare the request submission package and email to the Division by emailing [sderby@minerals.nv.gov](mailto:sderby@minerals.nv.gov) and CC [gwake@minerals.nv.gov](mailto:gwake@minerals.nv.gov). A completed package must include the following information:
  - a. Cover letter on organization letterhead
  - b. Nevada Public Agencies Abandoned Mine Land Physical Safety Hazards Closure Funding Request form
  - c. Project scope of work
  - d. Any supplementary documentation which may assist the Division in determining need

Please send the package as a \*.zip file. If the submission is too large to email, you may mail a flash drive or CD, or email a cloud-storage link to the Division.



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>

Date Received:

**NEVADA PUBLIC AGENCY ABANDONED MINE LAND PHYSICAL SAFETY  
HAZARDS CLOSURE FUNDING REQUEST**

Date: \_\_\_\_\_ Submitting Public Agency: **County / City / Tribal / Other:** \_\_\_\_\_

Name: \_\_\_\_\_ Organization: \_\_\_\_\_

Title: \_\_\_\_\_ E-mail: \_\_\_\_\_

Office Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Township(s), Range(s) and Section(s) encompassing the project area:

T \_\_\_\_\_ R \_\_\_\_\_ Sec(s) \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ Sec(s) \_\_\_\_\_

T \_\_\_\_\_ R \_\_\_\_\_ Sec(s) \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ Sec(s) \_\_\_\_\_

Assessor's Parcel Numbers included in project: (include an attachment if more lines are needed)

|       |       |       |       |
|-------|-------|-------|-------|
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ |

Number of verified abandoned mine openings included in proposal: \_\_\_\_\_

Have you obtained one or more estimates for this project? **Yes / No** If yes, please attach to proposal

Do you anticipate contributing project funding? **Yes / No** What is the est. dollar amount? \_\_\_\_\_

Do you anticipate contributing in-kind project support? **Yes / No** If yes, please briefly describe below:

|       |
|-------|
| _____ |
| _____ |

What is the dollar amount being requested from the Division? \_\_\_\_\_

**PUBLIC AGENCY AML CLOSURE PROGRAM  
HAZARD STATUS AND MINE CLOSURE REPORT**

**PUBLIC AGENCY:** Lyon County

**PROJECT NAME:** Como      **HAZARD ID:** LY-0351      **COUNTY:** Lyon      **HAZARD TYPE:** SHAFT

**USGS 7.5' TOPO QUAD:** Como      **UTMs NAD83 z.11** 284075 E      4338680 N      **HAZARD RANKING:** 8-High

**APN:** 123-45-678      **TOWNSHIP:** 15N      **RANGE:** 22E      **SECTION:** 15      **OWNER:** Lyon County Treasurer

**DATE COMPLETED:** 4/17/2023      **CLOSURE METHOD:** BCC W/Removable Bar      **WORK PERFORMED BY:** EPS

**COMMENTS:**

**BEFORE**



**AFTER**



# NEVADA PUBLIC AGENCY ABANDONED MINE LAND PHYSICAL SAFETY HAZARDS CLOSURE FUNDING REQUEST

## Overview

The purpose of this program is to allow public agencies within the state of Nevada to apply for funding from the Division of Minerals to close dangerous abandoned mines on land they own or control. The Division has limited manpower to prepare and manage additional closure projects throughout the state; however, jurisdictions that have the capability to prepare, manage and successfully complete AML closure projects may apply for funding from the Division.

Requests will be assessed and approved based on a variety of factors, including ability to prepare and manage projects; proximity to population centers, highways, and recreation areas; relative danger of hazards; amount of funding provided by entity and project timeline.

## Questions

- Do we want to consider requests from local and tribal jurisdictions? I know this is geared mostly towards patents that are owned by the counties due to tax liens. But, would these projects also meet our goals here or at least be open to consideration? **Yes. It isn't restricted to patents, simply public agency-owned lands.**
- What is a public agency? **Pursuant to: NRS 277.100 Definitions.** As used in [NRS 277.080](#) to [277.180](#), inclusive, unless the context otherwise requires:
  - 1. "Public agency" means:
    - (a) Any political subdivision of this State, including without limitation counties, incorporated cities and towns, including Carson City, unincorporated towns, school districts and other districts.
    - (b) Any agency of this State or of the United States.
    - (c) Any political subdivision of another state.
    - (d) Any Indian tribe, group of tribes, organized segment of a tribe, or any organization representing two or more such entities.
  - 2. "State" includes any of the United States and the District of Columbia.
  - (Added to NRS by [1965, 1332](#); A [1969, 327](#); [1973, 260](#); [1983, 128](#))
- Are nonprofits eligible to participate in the program? **I don't think so, but we probably should get concurrence from CMR.**
- Do we want/need to include wildlife in the process? **We should advise applicants that consultation with NDOW may be necessary depending on feature specifics and closure proposals.**

## General notes

- Single page form for public agencies to submit for AML closure funding on land they own or control

- Proposal can ask for state funds, can include public agency funds and in-kind work
- Need to develop workflow and deliverables
  - Flow chart
  - Deliverables checklist
  - Submission guidelines and FAQs (to accompany flow chart)
  - Request form
- Contracting must meet State requirements (check on this)

## Workflow

1. Identify abandoned mines on public agency-owned lands which are dangerous to the public and should be permanently closed.
2. Contact the Nevada Division of Minerals to establish a project area.
3. Visit, photograph and document coordinates for each hazard to verify location and need for closure.
  - a. Submit Hazard Status and Mine Closure Report Form for all project hazards.
4. Contact the Nevada Department of Wildlife to survey or recommend exclusion/gating, if applicable depending on the feature specifics and proposed closure.
5. Obtain an estimate through your entity's contracting process, established contracts, internal division, or through the State's AML contractor.
6. Identify other possible funding sources, including in-kind contributions.
  - a. Approval of funding will likely be predicated on the submitting entity's ability to plan, manage and complete the project with minimal assistance from the Division.
7. Complete the "Nevada Public Agency Abandoned Mine Lands Physical Safety Hazard Closure Funding Request" form on the Nevada Division of Minerals website. [NPA AML Funding Request]
8. Submit cover sheet, NPA AML Funding Request form, project scope of work, estimates and any other supplemental attachments to the Division.
9. If approved for funding, complete Interlocal contract specifying SOW, deliverables, expiration date, and NTE amounts. May allow for phased payments depending on project scope.
  - a. Funding contingent upon contract signed by all applicable parties and BOE approval. (Is IFC needed? **Not after the work program is approved authorizing expenditures in the new category.**)

## NPA AML Funding Request Form Fields

- Submitting jurisdiction
- County
- APN and T/R/S(s) where work is to be completed
- Contact information
  - Name
  - Title
  - Email address
  - Phone number

- Estimated number of abandoned mine openings in project.
- Dollar amount requested from NDOM.
- Do you anticipate contributing funding towards this project? If so, what is the estimated amount?
- Do you anticipate contributing in-kind funding to this project? If so, please provide a brief description below.
  - Examples include: machinery (bulldozer, backhoe, etc.), equipment operators, project supervision and reporting, traffic control (if applicable), and other project-related resources.
- Have you received or prepared one or more quotes for completion of this project? Yes / No. If so, please attached quote(s) to your submission.

#### **Required documents in request submission**

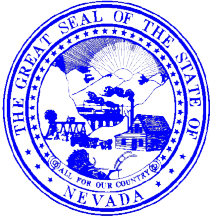
- Cover letter defining the project scope, funding sources, timeline and a brief description of need and work to be done.
- NPA AML Funding Request form
- Scope of work containing
  - Map showing the project area and all AML sites included in the proposal
  - Hazard Status and Mine closure Report (if not submitted earlier)
  - Non-division funding sources and in-kind support
  - Estimated project timeline
  - Wildlife recommendations for each site (Excel format), if consulted
  - Anticipated contractor(s)
    - The State's AML contract is an option
- One or more project estimates

#### **Required deliverables**

- Photographs of closure work in progress
- Photos of final closures
- Invoice for remainder of incurred costs subject to NTE amount in Interlocal Contract.
- A report detailing the completed work, timeline, funding sources, and other pertinent information.

# COMMISSION BUSINESS

# STAFF 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/>



**STEVE SISOLAK**  
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

### April 2022

#### Administrator – Mike Visher

1. Participated in the iSCORE Industry Summit in Elko which focused on goals and strategies for the new Mining Center for Excellence. This is a joint effort between UNR and the Great Basin College to provide educational opportunities supporting the many employment opportunities within the Nevada mineral industry. Curriculum is being developed by recently hired faculty with the intent of starting classes Fall of 2023.
2. Provided a presentation to SME on the Nevada mineral industry, activities, trends.
3. Hosted a meeting with a mining delegation from Kazakhstan, arranged by the Department of State, and provided them with an overview of Nevada mineral exploration, development, production, and reclamation as well as an overview of the state and federal agencies involved in the permitting process.
4. As a cooperating agency, reviewed draft documents for the BLM UT-NV Cross-Tie electrical transmission line project EIS.
5. Responded to IOGCC surveys on TENORM and H2S regulations in Nevada.
6. Meetings attended: Governor's Finance Office, BLM Fluid Minerals permitting updates, Governor's Cabinet, NDEP-UNR BEP, Mackay Education Advisory Board, Agency PIOs.

#### Deputy Administrator – Rob Ghiglieri

1. Bond pool activity in April consisted of one new notice-level bond and one notice-level decrease. The quarterly reconciliation report was submitted with zero variance to the State Controller's Office.
2. Continued to work on the template and design for a National Hardrock AML database and co-hosted another NAAML/IMCC national hardrock AML inventory group meeting. The goals of these meetings are to discuss inventory requirements for the potential National AML Database under the Bipartisan Infrastructure Law (BIL) (Section) 40704.
3. Attended a meeting discussing BIL 40704 with the DOI Office of Environmental Policy and Compliance (OEPC) and IMCC. I presented the draft AML database design to OEPC and the USGS. OEPC is planning to utilize the USGS for the national AML database development. A follow up meeting with the USGS is planned for early May.
4. Attended the Mining and Metallurgical Society of America (MMSA) Good Sam AML Summit in Phoenix AZ.
5. Attended and presented at the NvMA/NDOM Teachers Workshop in Las Vegas.
6. Attended the in-person portion of the Top Energy training course held in Austin, TX. The class covered emerging trends and technologies and effective communication. Two more online and in-person courses remain.
7. Continued to work with Valerie on the FY24/25 Budget Biennium planning.
8. With Valerie, submitted a Work Program to adjust the revenue for the mining claim fees and USFS agreement.
9. Submitted and received a contract amendment to extend the Reno Discovery Museum Display project to June 30<sup>th</sup>, 2022. The display contractor needed a few more weeks due to supply chain issues.
10. Attended a meeting with the Governor's Grants Office on the new grant management system and naming mechanism. I will provide all grant information pertaining to Minerals to their office in May.

11. Attended a meeting with the Governor's Finance Office. This was the first in-person meeting we have had with our new finance officers, and we took the opportunity to educate them on our agency and ask them as many questions about the upcoming budget build as possible.
12. End-of-April financial summary of bond pool:

| Reclamation Bond Pool Status Report                  |                   | Current to: 5/2/2022 |                        |           |                       |              |               |              |
|--|-------------------|----------------------|------------------------|-----------|-----------------------|--------------|---------------|--------------|
| 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           | 8.31%     |                       | \$84,036.27  | \$9,690.57    | 57.5%        |
| Custom Details                                       | Bowie-Lew         | 11/17/2006           | \$14,643.00            | 0.75%     |                       | \$7,328.32   | \$18,784.75   | 178.3%       |
| New Gold Nevada (NV Rae)                             | Black Rock Canyon | 4/15/2005            | \$66,673.00            | 3.40%     |                       | \$33,715.62  | \$172,375.86  | 309.1%       |
| SNL Sand LLC   | Money Pit         | 5/21/2004            | \$430,088.00           | 21.91%    |                       | \$233,171.91 | \$297,486.92  | 123.4%       |
| Western Mine Dev.                                    | Victorine Mine    | 5/24/2000            | \$45,875.39            | 2.34%     | terminated            | \$0.00       | \$0.00        |              |
| Western Mine Dev.                                    | Kingston Mill     | 5/24/2000            | \$100,450.00           | 5.12%     | terminated            | \$0.00       | \$0.00        |              |
| TNT Venture  | Big Canyon        | 1/27/2010            | \$78,161.00            | 3.98%     |                       | \$39,615.03  | \$51,320.49   | 116.3%       |
| Dun Glen Mining                                      | Dun Glen          | 8/11/2014            | \$439,240.00           | 22.37%    |                       | \$238,536.99 | \$209,488.81  | 102.0%       |
| Statewide Notice-Level                               | Various           | various              | \$625,187.00           | 31.84%    | 50 Notice-level bonds |              |               |              |
| <b>Total Bond Amount</b>                             |                   |                      | <b>\$1,963,381.39</b>  |           |                       |              |               |              |
| <b>Cash in Pool's Account (From BSR - 4/29/2022)</b> |                   |                      | <b>\$3,085,516.27</b>  |           |                       |              |               |              |
| <b>Unfunded Amount</b>                               |                   |                      | <b>-\$1,122,134.88</b> |           |                       |              |               |              |
| <b>Percent funded</b>                                |                   |                      | <b>157.2%</b>          |           |                       |              |               |              |

### Chief, Abandoned Mine Lands Program – Sean Derby

1. AML staff met with USFS AML program managers to identify future locations for hard closure project work on USFS ground and provided access to SOSA HRC (NDOM's online hard closure project interface) to streamline future USFS partnerships.
2. NDOM contractor EPS (Environmental Protection Services) began work on a large-scale safeguarding program in west-central Nevada. This regional safeguarding project is addressing 106 dangerous orphaned hazards on federal land in Churchill, Humboldt, Lander, and Pershing counties.
3. EPS continues work on the VC Grand Prix hard closure project including material support from Robison Engineering, NDOT, Carson City Division of Public Works, and the BLM. To date, permanent closures on 16 sites, in Storey and Lyon counties, have been completed including the at the historical Sutro airshaft #3. NDOM and EPS worked with VC Grand Prix race officials to prioritize closures in proximity to this year's course, which occurred without incident while the project was underway.
4. Attended and presented at the NvMA/NDOM Teachers Workshop in Las Vegas.
5. NDOM and NDF (Nevada Division of Forestry) completed the first of 5 scheduled AML helicopter reconnaissance flights of regions with a high density of AML features including confirmation of over 1,000 features in Washoe, Storey, Lyon, and Churchill counties.
6. AML staff completed program planning for the 2022 Summer Intern Field Season. The season will begin May 16<sup>th</sup> with a week of safety and program training with input from NDEP, BLM, and NDOM staff.
7. AML staff responded to data requests in Pershing and Nye counties.
8. AML staff completed CX requests for 3 additional sites in Lander, Esmeralda, and White Pine counties.
9. AML staff work with TerraSpectra to develop utility improvements to the SOSA HRC (Hard Closure Database).
10. AML staff finalized contract terms and content for the "Stay Out Stay Alive" Billboard campaign with YESCO (Young Electric Sign Company). Three locations, located on I-80, US 50, and US 95, will feature SOSA messaging From June 1<sup>st</sup> – October 1, 2022.
11. AML status at the end of April:

|              | SITES INVENTORIED | SITES SECURED | % Secured |
|--------------|-------------------|---------------|-----------|
| Since 1987   | 24,057            | 19,739        | 82%       |
| 2022 To Date | 90                | 85            | 94%       |

### GIS/ Field Specialist – Lucia Patterson

1. Updated AML photos on the server.
2. Fielded responses from the AML second-notification mailout.
3. Created a poster on the minerals used to make a cell phone for education and outreach.
4. Made updates to the open data site for mining claims, critical minerals, mining districts, and fluid minerals.
5. Attended a career fair at Carson High School.
6. Gave a talk to the Nevada Landman's Association on updates to the open data site.

7. Worked on and published the Claims Habitation Interactive Map Experience or C.H.I.M.E. map, including an informational video and hard copy fliers for distribution at GSN.
8. Updated the Critical Minerals presentation for GSN and re-recorded the video for our YouTube channel.
9. Updated the mining districts layer by joining all commodities mentioned in the 30,000 scanned files found in the NMBG Mining District Files Database.
10. Updated all Mesa tablets and set up new Getac tablets.
11. Compiled data and maps for the first three weeks of the summer intern program.
12. Created a presentation on using open data sites for the Utah GIS conference I will be presenting at in early May.
13. Created new field areas for EPS.
14. Updated and printing maps in preparation for GSN.

#### **AML/Fluid Minerals Field Specialist – Dustin Holcomb**

1. Participated in the 31<sup>st</sup> Annual Southern Nevada Mineral Education Workshop
  - a. Transport materials and supplies from Carson City to the workshop location
  - b. Assist in setting up and tearing down of the workshop and classrooms.
  - c. Taught four courses: Minerals Level 2, Rocks and Geology Level 2, Cupcake core drilling, and assisted Bill Durbin in the Toothpaste with Minerals session.
2. Fulfilled two requests for AML data to industry.
3. Inventoried supplies for the NVMA Annual Teacher Workshop and organized the NDOM AML storage shed.
4. Responded to inquiries from claim holders in response to the biannual mailout.
5. Helicopter recon flight to inventory zones of interest for AML in the Peavine and Virginia City historic mining districts.
6. Catalogued secured hazards, updating the SOSA database, and compiled acknowledgment letters for claimants in compliance.
7. Monitored activity at the hard closure sites in the Virginia City area, in preparation for the VC Grand Prix races.
8. Assisted in preparing the summer intern project binders.

#### **AML/Public Outreach – Southern Nevada Programs Manager – Garrett Wake**

1. Participated in a career fair at Foothill HS in Henderson; approximately 600 students reached during the event.
2. Participated in a career event at Cartwright ES in Las Vegas; approximately 160 students.
3. Presented in five sessions at the Southern NV Mineral Education Workshop; 69 schoolteachers reached. Coordinated three tours visiting six locations in southern Nevada.
4. Worked with Rebecca Ely to secure three abandoned mines near the town of Goodsprings.
5. Edited a “Critical Minerals in Nevada” video for Lucia.
6. Continued to respond to mining claimants looking for information, or submitting information, related to dangerous abandoned mines within their claims.
7. Participated in a U.S. Army Corps of Engineers Remediation of Abandoned Mine Sites progress meeting with contractor TerraSpectra and a McCaw School of Mines quarterly board meeting.

#### **AML/Public Outreach and Education – Southern Nevada Field Specialist – Becky Ely**

1. Attended meeting on Hard Rock Closure database and an AML meeting with TerraSpectra.
2. Attended meeting on Priority Revisit and Intern Planning for AML.
3. Provided a career presentation for fourth grade at Simmons ES.
4. Prepared materials, helped set-up, and taught courses at the Southern Nevada Earth Science Education Teachers Workshop.
5. Completed AML work near Goodsprings with Garrett.
6. Provided career presentations for third, fourth, and fifth grade students at Twin Lakes ES.
7. Hosted a panel of mining professionals for the final live session of Mining for a STEAM Education.
8. Provided presentation on the importance of mineral resources, Nevada’s history of mining and careers in mining for high school students at Pinecrest Academy Cadence.
9. Attended UNLV’s 17<sup>th</sup> Annual GeoSymposium.
10. Completed trainings for my role as Diversity and Inclusion Liaison.
11. Worked on owner responses (calls and emails) to AML 2<sup>nd</sup> notification letters, providing additional information to owners when requested.

### **Fluid Minerals Program Manager – Cortney Luxford**

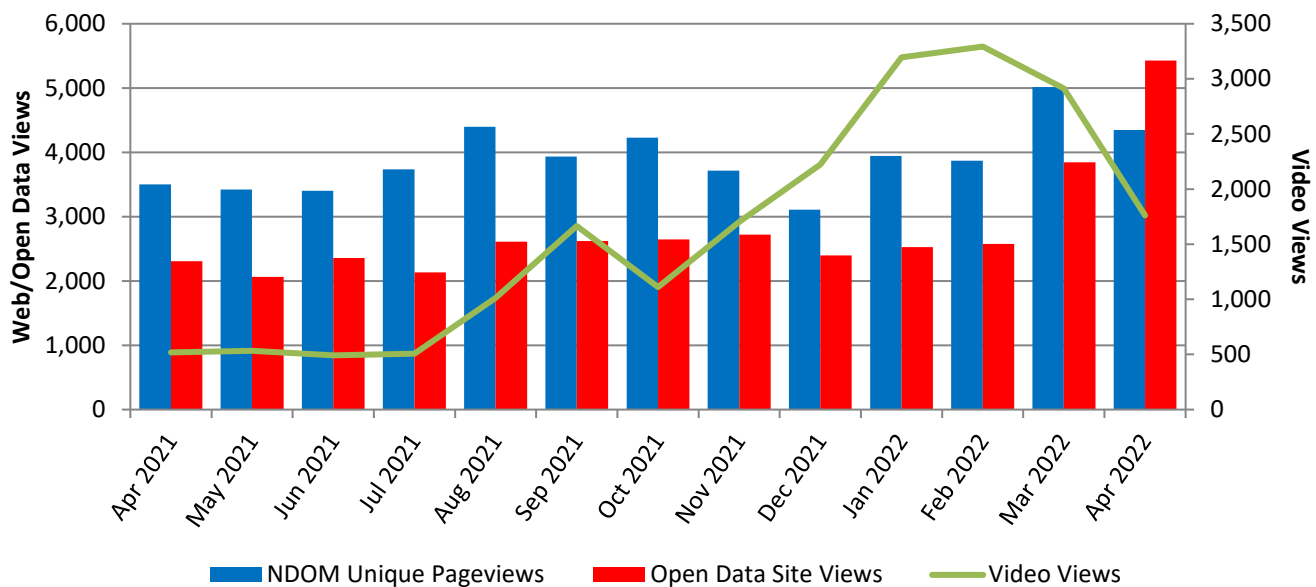
1. No geothermal and no oil permits were issued in April.
2. One DMRE Well was approved in April. The Lone Mountain Alkali Lake 1 was approved in the Alkali Spring Valley Basin in Esmeralda County.
3. Five geothermal sundries and two oil sundries were reviewed in April.
4. Attended TopCorp training course in Austin, TX.
5. Spoke with Jeri Chadwell (Editor Sierra Nevada Ally) regarding oil exploration, production, used and unused permits and which operators are active in Nevada.
6. Attended IOGCC Undocumented Orphan Well virtual workshop.
7. Continued to monitor Fervo Energy's drilling at the Blue Mountain 34A(24-32)-22 geothermal well.
8. Coordinated with BLM state and field offices to monitor drilling operations, review permit applications and sundries for fluid minerals.
9. Status of well inspections at the end of April:

| FY 2022 Well Inspections  | Total Wells | Wells Needed for FY22 | Wells Inspected | % of Total Needed | Wells Remaining |
|---------------------------|-------------|-----------------------|-----------------|-------------------|-----------------|
| Geothermal (19 Locations) | 463         |                       | 168             |                   |                 |
| Oil (22 Locations)        | 121         |                       | 18              |                   |                 |
| Totals                    | 584         | 195                   | 186             | 95%               | 9               |

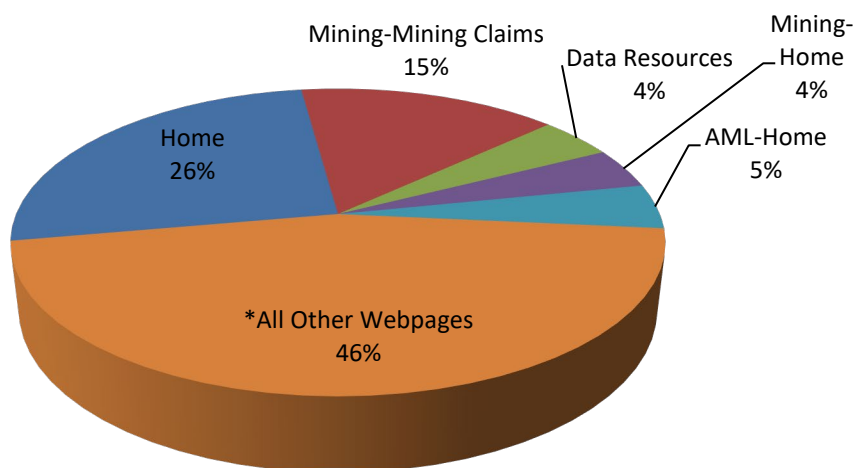
### **NDOM Website Activity**

| Period            | Website Pageviews | Website Unique Pageviews | Website Top 5 Pageviews   | Open Data Site Views | Video Views |
|-------------------|-------------------|--------------------------|---|----------------------|-------------|
| Apr 2022          | 5,746             | 4,348                    | Home, Mining-Mining Claims, Data Resources, Mining-Home, and AML-Home | 5,426                | 1,762       |
| Apr 2021-Apr 2022 | 68,860            | 50,623                   |   | 36,226               | 20,927      |

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



## NDOM Website - Top 5 Unique Page Views for April 2022

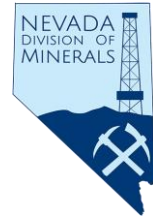


\*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

| Top Visitors |   |  |   |  |
|--------------|---|--|---|--|
| Apr-2022     | Country   | United States, Canada, Qatar, Germany, and India           |   |  |
|              | State   | Nevada, California, (unknown), Texas, and Colorado         |   |  |
|              | City  | (unknown), Reno, Las Vegas, Los Angeles, and San Francisco |   |  |
|              | <b>Top 5 Video Views</b>  |  | <b><u>Dist</u><br/><u>Learn</u><br/><u>Trkr # of</u><br/><u>Classes</u></b> | <b><u>No.</u><br/><u>NV</u><br/><u>45%</u></b> |
| <b>1,762</b> | Mining in Nevada - 18:22 mins.; A General Overview Earth and NV Geological History; NDOM An Overview (2021, 2022); C.H.I.M.E. Web App Demo/Building a Web Mapping Platform (tie). |  | 70  | 32   |
|              |   |  |   | 38   |



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COMMISSION ON MINERAL RESOURCES  
**DIVISION OF MINERALS**  
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**STEVE SISOLAK**  
Governor

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**MICHAEL VISHER**  
Administrator

## MONTHLY ACTIVITY REPORTS

### May 2022

#### Administrator – Mike Visher

1. Provided the Governor's Office with a draft proclamation declaring June 5-11 as Nevada Mineral Industry Week.
2. Worked with Rachel Micander at NBMG to review nearly 100 boxes of historic documents donated by the Office of the State Mine Inspector. 43 boxes containing documents related to mineral production, inspections, and accident reports dating back to early 1900s were retained for future archiving.
3. Provided a presentation at the GSN Symposium on 2021 mineral production and exploration activity and trends in Nevada.
4. Met with, and provided a presentation to, a large mining delegation from Argentina on how Nevada manages lithium brine exploration and production. Presenters also included BLM, NDEP, and DWR.
5. Meetings attended: Virginia mining regulatory delegation, UNR Business School Mining Chain Supply symposium, NDEP and DWR meeting on lithium brine exploration and mine permitting requirements, Mining Law Reform, IOGCC Annual Business Meeting in Oklahoma City, Truckee Meadows Regional Planning Advisory Subcommittee on Natural Resources, Net Zero Nevada, quarterly CMR, BLM Fluid Minerals permitting updates, Governor's Cabinet, Agency PIOs.

#### Deputy Administrator – Rob Ghiglieri

1. Bond pool activity in May consisted of two new notice-level bonds.
2. Held a meeting with the USGS on the draft National AML Hardrock database. We reviewed how it will be used, the goals of the database, and the many different difficulties that could arise while compiling a national database form potentially over 50 different groups.
3. Continued to work on the template and design for a National AML Hardrock database and with IMCC submitted the draft design for comments/suggested edits to other state AML programs. We received comments and edits from over 15 states including California, Idaho, Maine, Minnesota, and Virginia, giving a strong nationwide collaboration. We reviewed and made necessary edits to the database before providing it back to the USGS.
4. Attended a meeting discussing BIL Section 40704 with DOI's Office of Environmental Policy and Compliance (OEPC) and IMCC. We discussed the funding availability and potential grant opportunities with OEPC.
5. Attended the quarterly CMR meeting, the GSN Symposium, and the Mining Supply Chain Symposium at UNR.
6. Selected a vendor for the AML Digital Marketing Campaign, Territory 6. Negotiations will continue into June and contracts submitted to IFC and BOE for early FY2023.
7. Worked with NvMA to plan the June Teachers Workshop in Carson City.
8. Completed the online portion of the second Top Energy training for the Golden, Colorado class. The online work covered geological and engineering basics for oil and gas extraction and technologies. The in-person portion of the class takes place in June and the final in-person portion is in September.
9. Continued to work with Valerie on FY24/25 Budget planning.
10. Created, submitted, and received final approval for a new contract with YESCO for AML billboards in rural Nevada.

11. Attended a demonstration meeting held by the Governor's Grants Office on the state's new grant management system. The system will go live in 2023.

12. End-of-May financial summary of bond pool:

| Reclamation Bond Pool Status Report                  |                   | Current to:    | 6/6/2022               |               |                              |              |               |              |
|--|-------------------|----------------|------------------------|---------------|------------------------------|--------------|---------------|--------------|
| 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           | 8.25%         |                              | \$84,036.27  | \$9,690.57    | 57.5%        |
| Custom Details                                       | Bovie-Lew         | 11/17/2006     | \$14,643.00            | 0.74%         |                              | \$7,328.32   | \$18,784.75   | 178.3%       |
| New Gold Nevada (NV Rae)                             | Black Rock Canyon | 4/15/2005      | \$66,673.00            | 3.38%         |                              | \$33,715.62  | \$172,375.86  | 309.1%       |
| SNL Sand LLC   | Money Pit         | 5/21/2004      | \$430,088.00           | 21.77%        |                              | \$233,171.91 | \$297,486.92  | 123.4%       |
| 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           | 5.09%         | terminated                   | \$0.00       | \$0.00        |              |
| TNT Venture  | Big Canyon        | 1/27/2010      | \$78,161.00            | 3.96%         |                              | \$39,615.03  | \$51,320.49   | 116.3%       |
| Dun Glen Mining                                      | Dun Glen          | 8/11/2014      | \$439,240.00           | 22.24%        |                              | \$238,536.99 | \$211,685.01  | 102.5%       |
| <b>Statewide Notice-Level</b>                        | <b>Various</b>    | <b>various</b> | <b>\$637,197.00</b>    | <b>32.26%</b> | <b>52 Notice-level bonds</b> |              |               |              |
| <b>Total Bond Amount</b>                             |                   |                | <b>\$1,975,391.39</b>  |               |                              |              |               |              |
| <b>Cash in Pool's Account (From BSR - 5/27/2022)</b> |                   |                | <b>\$3,106,811.00</b>  |               |                              |              |               |              |
| <b>Unfunded Amount</b>                               |                   |                | <b>-\$1,131,419.61</b> |               |                              |              |               |              |
| <b>Percent funded</b>                                |                   |                | <b>157.3%</b>          |               |                              |              |               |              |

### **Chief, Abandoned Mine Lands Program – Sean Derby**

1. NDOM contractor Environmental Protection Services (EPS) continues work on a large-scale safeguarding program in northwestern Nevada. This regional safeguarding project is addressing dangerous 106 orphaned hazards on federal land in Churchill, Humboldt, Lander, and Pershing counties.
2. EPS also continues work on the VC Grand Prix hard closure project including material support from Robison Engineering, NDOT, Carson City Division of Public Works, and the BLM. To date, permanent closures on 19 sites have been completed, in Lyon and Storey counties, including at the historic Sutro airshaft #3. At present, EPS is completing closure of the historic Foreman shaft.
3. AML staff and interns completed safety and field program training and worked in the Tonopah area during the first field week completing 15 grievance securings in Mineral, Nye, and Esmeralda counties.
4. AML staff responded to public data requests in Esmeralda and White Pine counties.
5. AML staff approached Nevada State Parks with a proposal to complete hard closures at the Berlin Ichthyosaur State Park and will be meeting with them on project development during June.
6. AML contractors completed geological and archeological surveys at three prospective hard closures projects in Lander, Pershing, and Washoe counties.
7. AML staff held a meeting with US Department of Energy Mine Land Program Development team to discuss cooperation with a clean energy initiative being proposed on federal land in Nevada containing historic AML sites.
8. End-of-May AML statistics:

|              | SITES INVENTORIED | SITES SECURED | % Secured |
|--------------|-------------------|---------------|-----------|
| Since 1987   | 24,060            | 19,754        | 82%       |
| 2022 To Date | 93                | 100           | 107%      |

### **GIS/ Field Specialist – Lucia Patterson**

1. Updated AML photos on the server.
2. Took responses for AML second-notification mailout.
3. Updated mining claims and lithium claims data and open data site.
4. Attended the GSN symposium where I gave two presentations and led a workshop on the open data sites with Rachel Micander.
5. Created a claims density interactive map, [The C.H.I.M.E. Map \(Claim Habitation Interactive Map Experience\) \(arcgis.com\)](#).
6. Attended the annual conference held by the Utah Geographic Information Council in Vernal, Utah where I gave one presentation and attended a one-day short course on JavaScript for API.
7. Entered all data submitted for 2021 annual mine status and production.
8. Trained interns on digital data collection and set up field maps.

9. Worked on preparations for the Teachers Workshop including venue location, session plans, session descriptions, and newspaper article submissions to local newspapers.
10. Identified rocks/minerals for an enthusiastic rock collector and set up a spot in the office with a microscope to assist with these types of requests.
11. Finished AML site assignments for revisits performed by NDOW.
12. To fulfill a data request, calculated the amount of alluvial-covered land in Nevada to be 48%, of which 79% is open to mineral entry.

#### **AML/Fluid Minerals Field Specialist – Dustin Holcomb**

1. Staffed the NDOM booth at the 2022 GSN Symposium.
2. Entered Secured Hazard Information Form data provided by claimants.
3. Assisted in preparing the summer intern project binders, which included the overview maps and necessary topo quad maps with hazards, non-hazards, and NV points and other areas of AML interest.
4. Complete aerial reconnaissance of Berlin/Ione, Eureka, and Round Mountain field areas.
5. Attended the IOGCC Well Inspectors' Forum in Oklahoma City.
6. Participated in intern training, including First Aid/CPR/AED, truck PM checklists, tire changing, Mesa tablet usage, barbed wire fence building, and remote field operations.
7. Supervised interns for the first week in the Tonopah area.

#### **AML/Public Outreach – Southern Nevada Programs Manager – Garrett Wake**

1. Conducted three presentations in fourth-grade classrooms at Wengert ES on Earth and Human Activity, minerals education, and AML; 75 students reached.
2. Conducted one virtual career day presentation in Carson Middle School; 25 students reached.
3. Conducted five presentations in a fourth-grade classroom at SLAM academy as a volunteer for Junior Achievement -- also provided information on minerals education and dangers of abandoned mines; 25 students reached.
4. Certified seven AML interns and one NDOM staff in Red Cross first aid, CPR and AED in preparation for the summer fieldwork season.
5. Participated in the AML Social Media Campaign contract evaluation committee meeting.
6. Conducted aerial reconnaissance using Google Earth across ten topographic quadrangles in preparation for summer intern season. Assisted AML Chief with preparing maps and data for intern and staff use.
7. Updated three graphics panels and made all necessary arrangements for production of the Nevada PDAC exhibit. Assisted NDOM Administrator with shipping materials to the convention facility in Toronto.
8. Obtained updated quotes for a UTV and trailer for the southern Nevada office.
9. Applied for and was accepted into the Nevada Certified Public Manager course.
10. Continued to assist claimants submitting documentation or needing additional information relating to the fall AML mailout notifications.
11. Presented a proposal for an in-kind donation on behalf of the McCaw School of Mines Foundation to the Commission on Mineral Resources.
12. Participated in the 2<sup>nd</sup> quarter Veteran Peer Mentor meeting, an Education Committee Meeting, a PDAC collaborators' meeting, and a McCaw gala planning meeting.

#### **AML/Public Outreach and Education – Southern Nevada Field Specialist – Becky Ely**

1. Attended GSN Symposium in Sparks, NV.
2. Worked with Dustin, Sean, and Garrett to prepare intern binders.
3. Attended and participated in Quarter 2 Safety Committee Meeting.
4. Attended and participated in CHOLLA end-of-year working meeting and retreat.
5. Completed trainings and survey for my role as Diversity and Inclusion Liaison.
6. Worked on owner responses (calls and emails) to AML 2<sup>nd</sup> notification letters, providing additional information to owners when requested.
7. Attended CMR meeting via Zoom.
8. Worked with Garrett to submit course request to CCSD PLE office to offer All About Mining: Mining for a STEAM Education in the fall semester.
9. Started preparing "How-to" documents on education and outreach in preparation of my departure.

### **Fluid Minerals Program Manager – Cort Luxford**

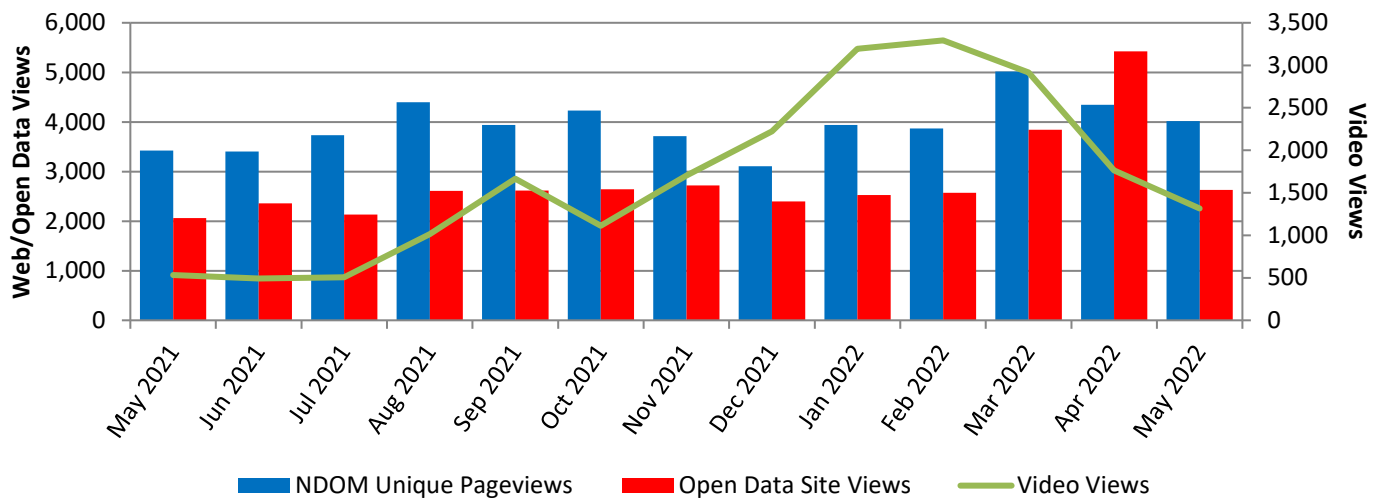
1. Seven geothermal and no oil permits were issued in May. The Ormat Pinto 23-20 thermal gradient well was approved in Humboldt County on a BLM lease. The Ormat Crescent Valley 61(72)-3, 53(64)-3, and the 36(54)-3 observation wells were approved on a private lease in Eureka County. The Ormat McGinness Hills 86(37-15)-16ST1 and the 77-21 industrial production wells were approved in Lander County on a BLM lease. The Ormat 55A-4 industrial injection well was approved in Washoe County on a private lease.
2. Three geothermal sundries and one oil sundry were processed in May.
3. One notice for a DMRE borehole was received and approved in May, the Belmont KB-5 in Monte Cristo Valley in Esmeralda County. One DMRE exploration well was approved in May, the GeoXplor Acme DH-1 in Clayton Valley in Esmeralda County
4. Inspected 104 oil wells in May. The Sans Springs, Bacon Flat, Grant Canyon, Kate Springs, Ghost Ranch, Eagle Springs, Trap Springs, Munson Ranch, East Inselberg and Currant fields in Nye County. Also, two wells in White River Valley in Nye County, one near Ely, and the Scott Federal 35-1 in White Pine County.
5. Had a conference call with the Veterans Administration about abandoning the Obs Well #1 in Reno.
6. The Blue Mountain BM 34A(24-32)-22 continued to drill and was approaching TD at the end of May, I visited the site during operations.
7. Had a DMRE regulatory discussion with NDWR, NDOM, NDEP-UIC, and BMRR regarding the appropriate agency's roles in permitting processes.
8. Had a virtual meeting with Enel for discussion about the 17-31 well that had a leak, at which water was discharged to the surface in the Stillwater field. They intend to create a plan to tests older injection wells in the field and present a plan moving forward on increased testing.
9. Met with the Argentinian delegation on DMRE regulations in Nevada organized by Kenyon Weaver of the Office of the General Counsel, U.S. Department of Commerce.
10. Had a meeting with NBMG on data exchange and plans to create a process for the transfer of permits, logs, and files to be sent to NBMG when geothermal and oil permits confidentiality period expire. Discussed ensuring that cuttings are received by NBMG and that cores are skeletonized by the operator prior to submission; included the language in NDOM's COAs on approved permits.
11. Coordinated with BLM state and field offices to monitor drilling operations, review permit applications and sundries for fluid minerals.
12. End-of May well inspection status:

| FY 2022 Well Inspections  | Total Wells | Wells Needed for FY22 | Wells Inspected | % of Total Needed | Wells Remaining |
|---------------------------|-------------|-----------------------|-----------------|-------------------|-----------------|
| Geothermal (19 Locations) | 463         |                       | 168             |                   |                 |
| Oil (23 Locations)        | 121         |                       | 122             |                   |                 |
| Totals                    | 584         | 195                   | 290             | 149%              | -95             |

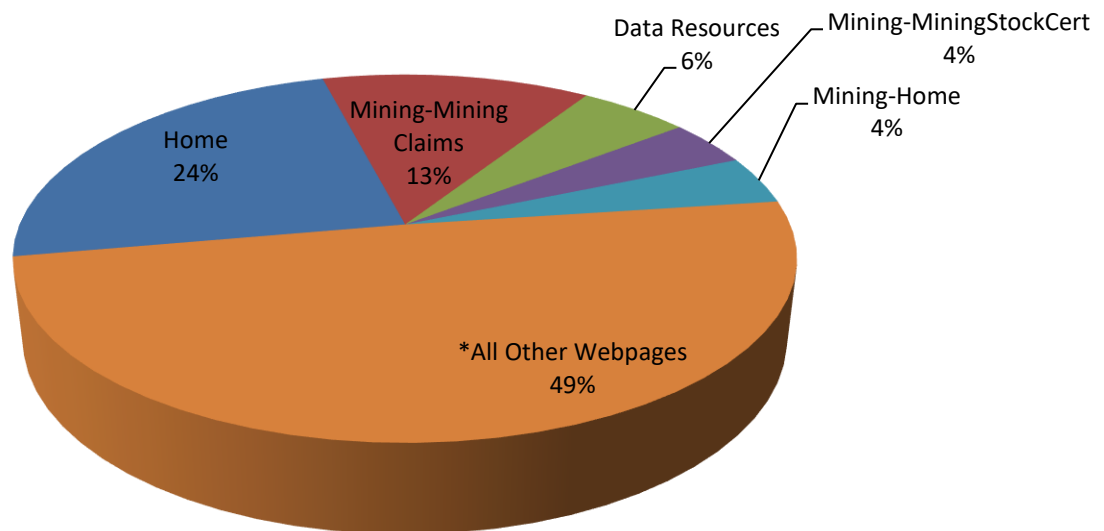
### **Website Activity**

| Period            | Website Pageviews | Website Unique Pageviews | Website Top 5 Pageviews   | Open Data Site Views | Video Views |
|-------------------|-------------------|--------------------------|---|----------------------|-------------|
| May 2022          | 5,416             | 4,019                    | Home, Mining-Mining Claims, Data Resources, Mining-MiningStockCert, and Mining-Home | 2,628                | 1,316       |
| Apr 2021-Apr 2022 | 69,381            | 51,140                   |   | 36,545               | 21,819      |

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



### NDOM Website - Top 5 Unique Page Views for May 2022

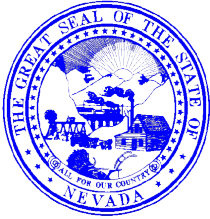


\*All Other Webpages - Site pages including Home Pages, Current Information, About Us, Commission, Programs, News, FAQs, and Contact Us pages.

#### Top Visitors

|          |         |   |
|----------|---------|---|
| May-2022 | Country | United States, Canada, Germany, (unknown), and India    |
|          | State   | Nevada, California, (unknown), Texas, and Virginia      |
|          | City    | (unknown), Reno, Las Vegas, Los Angeles, and Sacramento |

| <u>Video Views in May 2022</u> | <u>Top 5 Video Views</u>   | <u>Dist Learn Trkr # of Classes</u> | <u>No. NV 45%</u> | <u>So. NV 55%</u> |
|--------------------------------|--|-------------------------------------|-------------------|-------------------|
| <b>1,316</b>                   | 1) Stay Out and Stay Alive; 2) Mining in Nevada; 3) The Basics of Mineral Identification; 4) Nevada Geology & Mineral Deposits...On a Brownie; 5) Ore Deposits an Overview | 53                                  | 24                | 29                |



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**STEVE SISOLAK**  
Governor

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**MICHAEL VISHER**  
Administrator

## MONTHLY ACTIVITY REPORTS

### June 2022

#### Administrator – Mike Visher

1. Drafted a list of FAQs on various aspects of lithium brine exploration and production for review and consensus from NDWR, NDEP-UIC, NDEP-BMRR, and NDEP-BWPC. Once complete, the list will help explorers and operators understand which agency is involved at which point along the path from initial exploration to development and on to production.
2. Completed annual performance reviews with staff in Las Vegas.
3. Provided a presentation at the State Land Use Planning Advisory Committee on lithium exploration activity in Nevada.
4. Lucia and I attended the Elko Mine Expo and provided information to the general public and industry representatives.
5. Responded to public requests for information on mineral estate ownership, claim staking, mine permitting, and gemstone collecting.
6. Continued to meet with NDWR to discuss and work towards developing an MOU around our fluid minerals programs.
7. Meetings attended: DOE Clean Energy on Mine Lands Demonstration Program, IMCC Mining Law Reform, NvMA Environmental committee, DOI Interagency Work Group on Mining Law Reform, DOL, Prevailing Wage Seminar, NREL Geothermal Developer Forum, Greenlink West, UT-NV Cross-Tie EA, Interim Finance Committee, Smart from the Start, SEC Hearing on Thacker Pass NDEP permit appeal, BLM Fluid Minerals permitting updates, Governor's Cabinet, Agency PIOs.

#### Deputy Administrator – Rob Ghiglieri

1. Bond pool activity in June consisted of two notice-level bond releases and invoicing of all quarterly and June schedule annual premiums.
2. Continued to work with IMCC and a subset of NAAMLTP members on the template and design for a National AML Hardrock database. Made multiple edits and held another meeting with NAAMLTP members for a final draft version to provide to Office of Environmental Policy and Compliance (OEPC) and USGS.
3. Participated in a meeting discussing BIL Section 40704 with OEPC, IMCC, and USGS. We discussed the funding availability, potential grant opportunities, and new Hardrock AML database designs.
4. Attended the weeklong in-person portion of the TOP Energy Training course in Golden, Colorado. The class covered oil and gas geology, engineering, drill rigs, production, and reclamation. One additional online and in-person session will be held this fall in Pittsburgh, PA.
5. Attended and manned the Nevada booth at the three day in-person portion of PDAC in Toronto, Canada.
6. The AML Digital Marketing Campaign work program for the Territory6 funding was submitted and approved by IFC. BOE approval is anticipated for August 2022.

7. Worked at two youth events with Sherrie for the AML SOSA campaign. The first event was the Fourth Ward School, and the second was the Wild Sheep Foundation Outdoor Education event in Carson City. Combined there was nearly 400 youth in attendance.
8. In cooperation with NvMA, held the annual Northern Nevada Teachers Workshop in Carson City. Just over 40 teachers attended the conference and tour, which included a visit to the ongoing Forman Shaft closure in Virginia City.
9. Re-certified as a State of Nevada Certified Contract Manager.
10. Continued to work with Valerie on FY24/25 Budget planning.
11. Worked with Sean and the BLM for future AML work planning.
12. End-of-June financial summary of bond pool:

| Reclamation Bond Pool Status Report                  |                   |                | Current to: 6/30/2022  |               |                              |              |               |              |
|--|-------------------|----------------|------------------------|---------------|------------------------------|--------------|---------------|--------------|
| 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           | 8.22%         |                              | \$84,036.27  | \$13,619.18   | 59.9%        |
| Custom Details                                       | Bovie-Lew         | 11/17/2006     | \$14,643.00            | 0.74%         |                              | \$7,328.32   | \$18,784.75   | 178.3%       |
| New Gold Nevada (NV Rae)                             | Black Rock Canyon | 4/15/2005      | \$66,673.00            | 3.36%         |                              | \$33,715.62  | \$172,375.86  | 309.1%       |
| SNL Sand LLC   | Money Pit         | 5/21/2004      | \$430,088.00           | 21.68%        |                              | \$233,171.91 | \$297,486.92  | 123.4%       |
| Western Mine Dev.                                    | Victorine Mine    | 5/24/2000      | \$45,875.39            | 2.31%         | terminated                   | \$0.00       | \$0.00        |              |
| Western Mine Dev.                                    | Kingston Mill     | 5/24/2000      | \$100,450.00           | 5.06%         | terminated                   | \$0.00       | \$0.00        |              |
| TNT Venture  | Big Canyon        | 1/27/2010      | \$78,161.00            | 3.94%         |                              | \$39,615.03  | \$51,320.49   | 116.3%       |
| Dun Glen Mining                                      | Dun Glen          | 8/11/2014      | \$439,240.00           | 22.14%        |                              | \$238,536.99 | \$211,685.01  | 102.5%       |
| <b>Statewide Notice-Level</b>                        | <b>Various</b>    | <b>various</b> | <b>\$645,486.00</b>    | <b>32.54%</b> | <b>50 Notice-level bonds</b> |              |               |              |
| <b>Total Bond Amount</b>                             |                   |                | <b>\$1,983,680.39</b>  |               |                              |              |               |              |
| <b>Cash in Pool's Account (From BSR - 6/30/2022)</b> |                   |                | <b>\$3,104,419.77</b>  |               |                              |              |               |              |
| <b>Unfunded Amount</b>                               |                   |                | <b>-\$1,120,739.38</b> |               |                              |              |               |              |
| <b>Percent funded</b>                                |                   |                | <b>156.5%</b>          |               |                              |              |               |              |

#### Chief, Abandoned Mine Lands Program – Sean Derby

1. EPS continued work on the VC Grand Prix hard closure project including material support from Robison Engineering, NDOT, Carson City Division of Public Works, and the BLM. To date, permanent closures on 24 sites, in Storey and Lyon counties, have been completed including the at the historic Sutro airshaft #3 and the Foreman shaft. The cupola structure at the Foreman Shaft is currently the largest wildlife compatible closure in North America.
2. EPS staff completed priority revisits to 106 sites throughout northern Nevada.
3. AML staff and interns conducted field work in Eureka, Lincoln, Mineral and Nye counties in June. Interns focused heavily on completing inventory in previously surveyed areas, but also ground truthing for future hard closure projects on Forest Service land.
4. AML staff submitted a project report on the Arden Hard Closure Project to NAAML P to be considered for the 2022 NAAML P Hardrock Abandoned Mine Land Reclamation Award.
5. AML staff met with Nevada State Parks and completed site selection for a hard closure project at the Berlin Ichthyosaur State Park
6. The AML geological contractor submitted a draft report of geological site characterization of the Olinghouse District in Washoe County.
7. AML staff received contract approval from state purchasing with YESCO and approved production and installation of three billboards. The signs will appear on the I-80 corridor facing eastbound traffic in Imlay, facing eastbound traffic on US 50 between Ruth and Ely, and facing southbound traffic on US 95 at Walker Lake.
8. AML staff fulfilled public data requests for project areas in Pershing, Esmeralda, and White Pine counties.
9. AML staff and interns took part in the Northern Nevada Teacher Workshop, volunteering as instructors and support staff.
10. AML staff met with BLM AML staff for long-term project planning and updates on current partner projects.
11. End-of-June AML stats:

|              | SITES INVENTORIED | SITES SECURED | % Secured |
|--------------|-------------------|---------------|-----------|
| Since 1987   | 24,068            | 19,983        | 83%       |
| 2022 To Date | 101               | 334           | 331%      |

### **GIS/ Field Specialist – Lucia Patterson**

1. Updated AML photos on the server.
2. Uploaded OGG data to Nevada Box for NBMG.
3. Processed EPS revisit and intern AML field data.
4. Helped in troubleshooting some SOSA issues.
5. Made digital tour guide for the teacher's workshop including points of interest with photos for the Virginia City Route.
6. Participated in the Northern Nevada Teachers Workshop during which I taught five sessions (Advanced Rocks, Advanced Minerals, Geologic Time and Fossils, Edible Geology, and Natural Disasters).
7. Answered many over-the-phone and email questions regarding mining claims.
8. Updated mining claims, notice and plan data, and fluid mineral BLM lease data on the open data site.
9. Started compiling data for analysis of release prioritization of BLM withdrawn lands.

### **AML/Fluid Minerals Field Specialist – Dustin Holcomb**

1. Supervised summer interns in the Tonopah field area, completing 7 grievance securings
2. Supervised the summer interns for the first seven days of the ten-day excursion to the Pioche field area. Ensured that the interns completely secured all unsecured AML features within the Highland, Pioche, and Deer Lodge Canyon quadrangles.
3. Oversaw the summer intern work in the Eureka field area. Securing and inventorying hazards in the Silverado and Rattlesnake Mountain quads.
4. Inspected one shut-in geothermal well in Caliente
5. Inspected the Combination Shaft in Virginia City after a nearby resident reported damage to the hard closure grate.
6. Assisted Lucia in completing a road tour of the drive to Virginia City, for the Northern Nevada Minerals Education Workshop
7. Helped setup and organize the 37<sup>th</sup> Annual Northern Nevada Minerals Education Workshop, in Carson City
8. Taught three courses at the workshop: Minerals - Level 1, Rocks and Geology - Level 1, and Cupcake Core Drilling.
9. Responded to two inquiries from industry for AML point data.
10. Inventoried and catalogued all returned addresses from the last mailout.
11. Entered owner/claimant hazard securing data into the SOSA database.

### **Southern Nevada Programs Manager – Garrett Wake**

1. Represented the Division at the Prospectors and Developer's Association of Canada convention in Toronto, Canada. Conducted four 15-minutes presentations at the Nevada booth with an estimated 20 people in attendance. The booth received an estimated 200 visitors over three days.
2. Developed draft documents for Nevada public agencies to request funding from the Division for AML-hard-closure projects on private lands.
3. Selected to participate in the Nevada Certified Public Managers program, an 18-month curriculum which aims to develop "world class leaders and managers for public service." Attended the introduction class.
4. Oversaw the successful completion and delivery of a Commission-funded rock and minerals exhibit to the Reno Discovery Museum.
5. Completed the Clark County School District's Professional Learning Education instructor's course. This certification will allow me to submit and facilitate the southern Nevada teachers workshop and Mining for a STEAM Education virtual workshops.
6. Continued to assist mining claimants and property owners with AML-mailout related information and requests.
7. Participated in a Nevada Mining Association Education Committee meeting with a member of the Colorado School of Mines for a tutorial on the Mining for a Steam Education website.

### **Fluid Minerals Program Manager – Cortney Luxford**

1. Six geothermal and no oil permits were issued in June. The Ormat Baltazor 27(38)-12 industrial production well was approved in Humboldt County on a BLM lease. The Ormat San Emidio 67A-4 injection well was approved on a private lease in Washoe County. The Ormat San Emidio 52-4, 52A-4, 84-20 and 25(46)-28 injection wells were approved on BLM leases in Washoe County.
2. Two geothermal sundries and four oil sundries were processed in June.

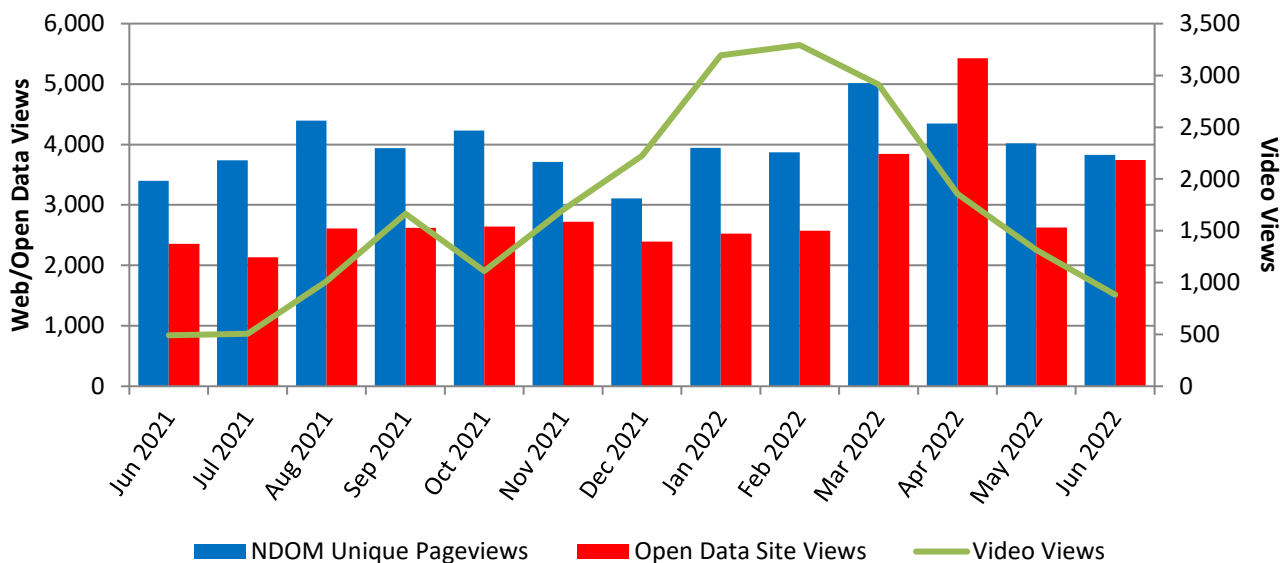
3. One notice for a DMRE borehole was received and approved in June, the Bonaventure Nevada 1 in Sarcobatus Flat in Nye County. No new DMRE exploration well permits were approved. GeoXplor dilled and plugged the ACME DH-1 exploration well in Clayton Valley. 3PL Operating drilled and completed the Li 11-18 exploration well in Railroad Valley, they were drilling the Li 10-28 exploration well at the end of June, operations were expected to last another week.
4. Conducted a joint NDOM/BLM inspection and tour of the oil fields in Nye, White Pine, and Lincoln counties with the new BLM PET, Mike Erickson. Discovered a well previously thought to be abandoned was open. Visited all orphan oil wells in Nevada.
5. Attended three-day TOP Energy oil and gas regulator course in Golden, CO.
6. Attended a 1-day NWRA Well Design, Construction and Rehab Workshop in Reno.
7. Met with Schlumberger representatives regarding permitting a DMRE exploration well in Clayton Valley.
8. Gave a DMRE presentation to the Central Nevada Regional Water Authority in Fallon.
9. Had an interagency meeting about creating MOU table for NDOM and NDWR.
10. Coordinated with BLM state and field offices to monitor drilling operations, review permit applications and sundries for fluid minerals.
11. Status of well inspections at the end of June:

| FY 2022 Well Inspections  | Total Wells | Wells Needed for FY22<br>(1/3 of total) | Wells Inspected | % of Total Needed | Wells Remaining |
|---------------------------|-------------|---|-----------------|-------------------|-----------------|
| Geothermal (19 Locations) | 463         |   | 168             |                   |                 |
| Oil (23 Locations)        | 122         |   | 135             |                   |                 |
| Totals                    | 585         | 195                                     | 303             | 155%              | -95             |

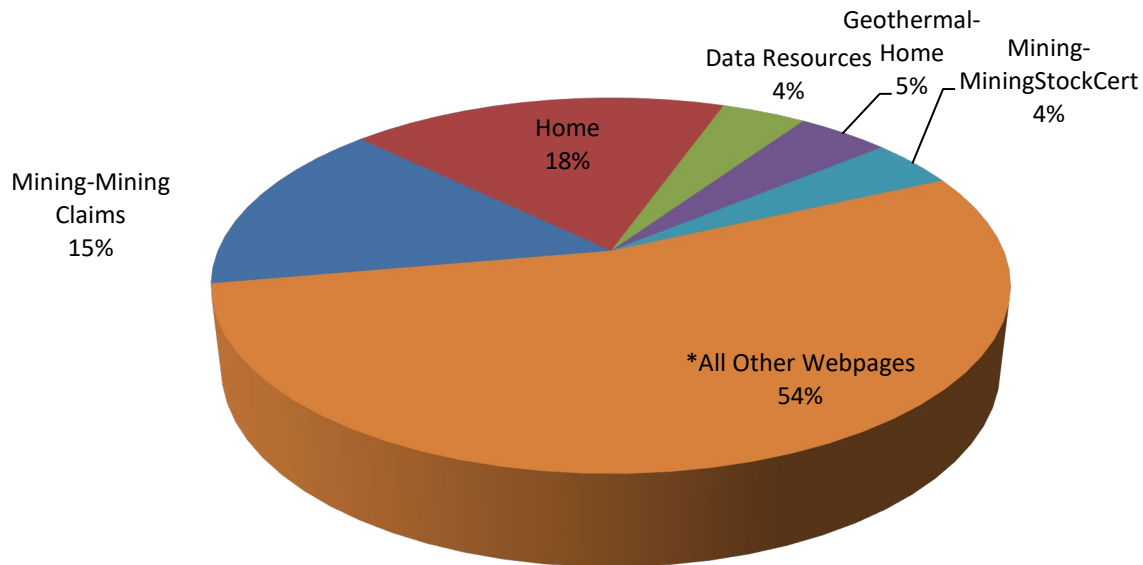
#### Website Activity

| Period            | Website Pageviews | Unique Pageviews | NDOM Website Top 5 Pageviews  | Open Data Site Views | Video Views |
|-------------------|-------------------|------------------|---|----------------------|-------------|
| Jun 2022          | 5,089             | 3,826            | Mining-Mining Claims, Home, Data Resources, Geothermal-Home, and Mining-MiningStockCert | 3,742                | 885         |
| Jun 2021-Jun 2022 | 69,906            | 51,544           |   | 38,225               | 22,172      |

#### NDOM Web/Open Data/Video Sites



### NDOM Website - Top 5 Unique Page Views for June 2022



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

#### Top Visitors

|          |         |   |
|----------|---------|---|
| Jun-2022 | Country | United States, Canada, Germany, India, and (unknown)    |
|          | State   | Nevada, California, (unknown), Texas, and Utah          |
|          | City    | (unknown), Reno, Las Vegas, Los Angeles, and Sacramento |

| <u>Video Views</u><br><u>in June 2022</u> | <u>Top 5 Video Views</u>  | <u>Dist Learn</u><br><u>Trkr # of</u><br><u>Classes</u> | <u>No.</u><br><u>NV</u><br><u>45%</u> | <u>So.</u><br><u>NV</u><br><u>55%</u> |
|---|---|---|---------------------------------------|---------------------------------------|
| 885                                       | 1) Mining In Nevada 18:22 Mins.; 2) The Basics Of Mineral Identification; 3) Ore Deposits An Overview; 4) (Tie) Critical Minerals In Nevada & Rock And Minerals Collecting... | 35  | 16                                    | 19                                    |