

# Colorado State Public Health Laboratory Presentation

## Capital Development Committee

December 16, 2024

Scott Bookman, Senior Director for Public Health Readiness and Response  
Emily Travanty, PhD, Laboratory Director, Colorado State Public Health Laboratory



**COLORADO**  
Department of Public  
Health & Environment

# Our Request

- CDPHE is requesting \$18,711,462 over a 3-year budget period to continue modernizing the State Public Health Laboratory.
- This request is a result of the 2019 Laboratory Services Space Needs Study conducted by the Office of the State Architect that identified operational and physical space updates needed over a 10-year period.
- During the COVID pandemic, federal funding was provided to update some sections of the Laboratory.
- Funding this request would allow completion of the recommended updates from the Space Needs Study.



# What & Why

The continued renovation and modernization of laboratory spaces

Extend laboratory spaces into the warehouse

Build laboratory space for cannabis and natural medicine testing in the current warehouse area

Optimize space layout for chemistry

Result: a State Laboratory that can meet future expectations and workloads. With newer programs being added to the Lab, like Natural Medicine, it is essential to have lab space available to be able to provide testing services.



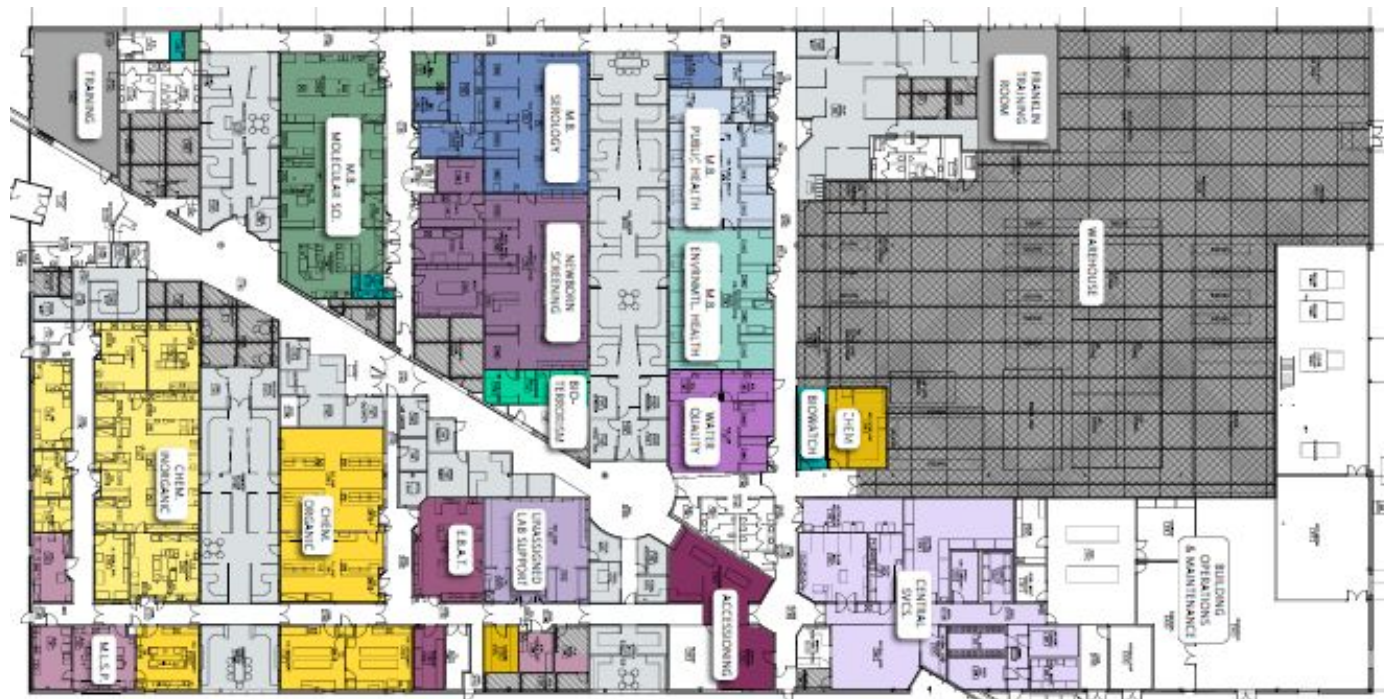
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# Colorado State Public Health Laboratory Footprints

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# State Lab Footprint 2019



## LEGEND

<b>LAB: CHEMISTRY (CHEM)</b>	<b>6,586 SF</b>
● CHEM. ORGANIC (OC) - 2,535 SF	
● CHEM. INORGANIC (IC) - 3,443 SF	
● SHARED CHEM. - 608 SF	
<b>LAB: MICROBIOLOGY (MB)</b>	<b>8,433 SF</b>
● MB. PUBLIC HEALTH - 1,560 SF	
● MB. ENVIRONMENTAL HEALTH - 1,404 SF	
● MB. SEROLOGY - 2,164 SF	
● MOLECULAR SCIENCE - 2,602 SF	
● BIOTERRORISM - 343 SF	
● BIOWATCH - 360 SF	
<b>LAB</b>	<b>6,630 SF</b>
● E.B.A.T. - 847 SF	
● MARIJUANA (MLSP) - 1,071 SF	
● ACCESSIONING - 946 SF	
● NEWBORN - 2,754 SF	
● WATER QUALITY (WQ) - 1,012 SF	
<b>LAB SUPPORT</b>	<b>1,054 SF</b>
● UNASSIGNED LAB - 1,054 SF	
<b>CENTRAL SERVICES</b>	<b>6,249 SF</b>
● CENTRAL SVCS/BLDG MGMT. - 6,249 SF	
<b>OFFICE &amp; OFFICE SUPPORT</b>	<b>16,326 SF</b>
● TRAINING (NLTN) - 1,933 SF	
● OFFICE - 11,430 SF	
● OFFICE SUPPORT - 2,963 SF	
<b>WAREHOUSE</b>	<b>18,599 SF</b>
● WAREHOUSE - 18,599 SF	
<b>BUILDING COMMON</b>	<b>17,842 SF</b>
● (WHITE/NO COLOR) BLDG. COMMON - 17,842 SF	
<b>TOTAL</b>	<b>81,719 NSF</b>



# State Lab 2019 Space Recommendations



# State Lab Footprint 2024



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# Programs that would receive space updates

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# Natural medicine

- SB 23-290 amended the new regulatory framework for Natural Medicine, mandating CDPHE establish testing standards and lab certification requirements
  - Required: 5.5 new FTE, 2 additional lab instruments, refrigerators and freezers
- The law only allows for regulated access to one type of Natural Medicine at this time, but three others must be considered by 2026. If approved, these will require development of additional testing standards and the use of different lab supplies



# Intoxicating hemp

- SB 23-271 allowed for the manufacture of synthetically derived intoxicating and non-intoxicating cannabinoids which was novel in the regulated hemp and marijuana industries and require significantly different testing than traditional products.
  - Required: 1.0 FTE and 1 additional lab instrument
- The significant increase in test complexity and instrumentation requirements for both Natural Medicine and intoxicating hemp has strained lab functionality and efficiency. The lab will be unable to take on additional testing for new Natural Medicines or cannabinoids without additional space.



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# Past funding awarded project updates

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# Past projects update

- Mechanical phase 1
- Deionized water systematic update
  - The design for this project has been awarded, and we just reviewed the design development (~30%) drawings set with the designer. This project is still on track to be completed with the previously allocated funding and by March 2026.
- Mechanical phase 2
  - The construction project has been awarded and equipment is on order. We anticipate demolition to begin late December or early January, and for the project to be completed early April and closed out before June 2025.
  - Additional funds will be requested in future fiscal years to address the aging cooling system.



# Federally funded updates

## Updated spaces:

- Newborn Screening Lab
- Biosafety Level 3 laboratory updates (Tuberculosis, Rabies, and Bioterrorism)
- Microbiology program space (molecular diagnostic testing)
- Sample receiving areas

## Additions made:

- New data closet
- Training lab



# Thank you!



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