

# Water and Natural Resources Committee

## Office of State Engineer/Interstate Stream Commission

### Budget and Staffing Needs

Mike A. Hamman, P.E., State Engineer

Rolf Schmidt Petersen, ISC Director

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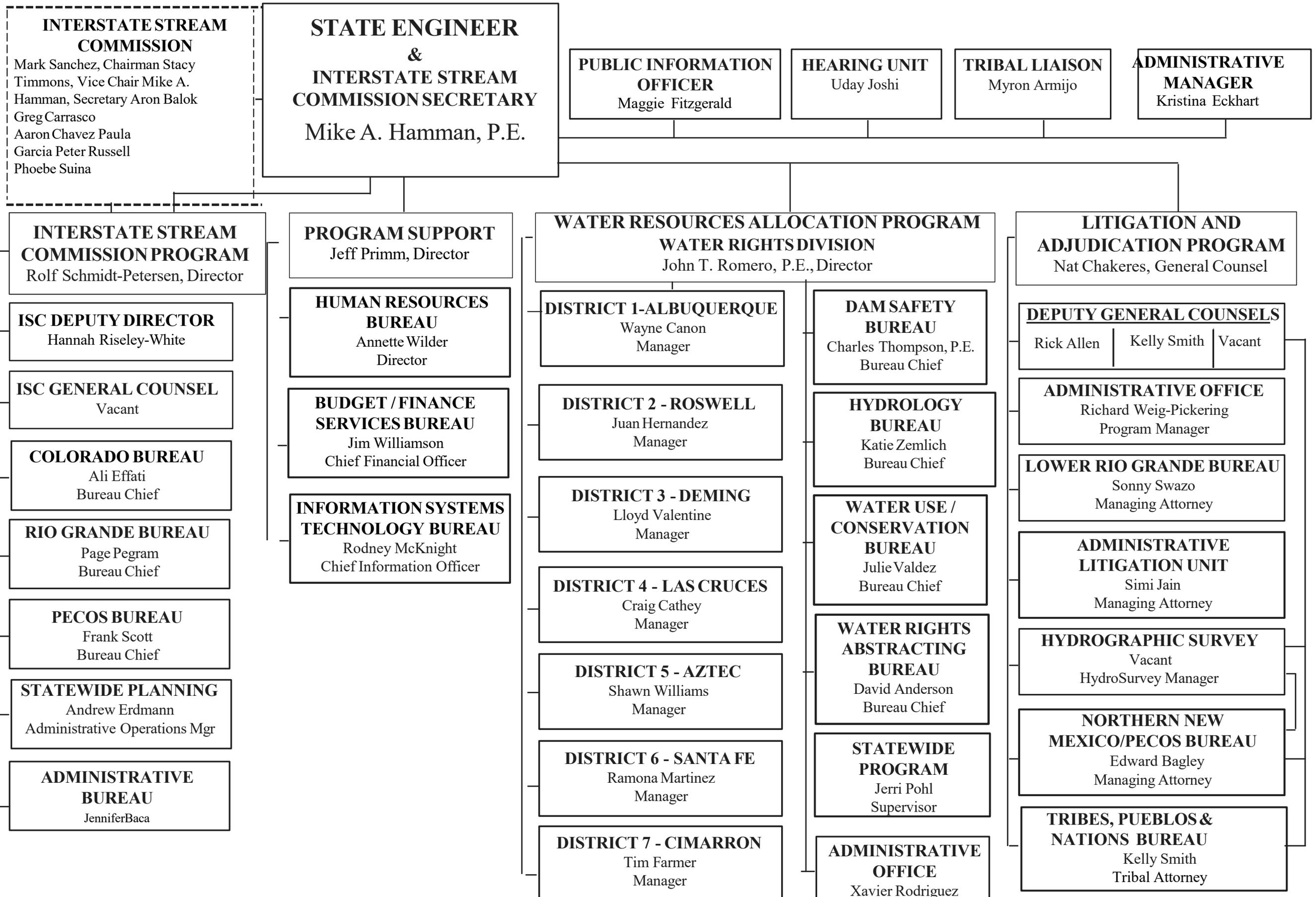
# State of New Mexico Office of the State Engineer

## • Mission of the OSE/ISC

To actively protect and manage the water resources of New Mexico for beneficial uses by its people, in accordance with law:

- to investigate, measure, and distribute water in the most efficient manner in accordance with state laws, court adjudications, and State Engineer rules and regulations;
- to administer the appropriation of the State's waters and changes to existing water rights through State Engineer permits and licenses;
- to meet the needs of New Mexico's growing population;
- to maximize use of New Mexico's renewable interstate stream apportionments;
- to promote the sustainability of New Mexico's water supplies; and
- to plan for the future water needs of New Mexico's people and environment.

# OFFICE OF THE STATE ENGINEER / INTERSTATE STREAM COMMISSION ORGANIZATIONAL CHART



# Agency Overview

- **Scarce Water Supplies**

- The challenges of managing New Mexico's scarce water supplies are being exacerbated by a changing climate. Climate change will impact New Mexico's water supplies through more frequent and longer droughts, altered patterns of precipitation and snowpack runoff, increased evaporation, and more frequent and more damaging wildfires. These impacts will threaten the communities, irrigators, and businesses that depend on New Mexico's water, and will increase stresses on the state's diverse ecosystems.

- **Active Water Resource Management (AWRM)**

- The Office of the State Engineer (OSE) is currently working with water managers and other stakeholders in key basins across the state to implement Active Water Resource Management (AWRM) to administer water rights to mitigate the effects of extreme drought and climate change. The OSE and Interstate Stream Commission (ISC) are also actively assisting water users to cope with emergency water needs by helping secure access to additional water, collecting additional data, developing models of surface water supply, and running model scenarios to aid in development of AWRM alternatives.

- **Prior Appropriation Principles Codified in the New Mexico Constitution**
- Water management in New Mexico is guided by several prior appropriation principles codified in the New Mexico Constitution:
  - all water belongs to the public but is subject to [appropriation](#) for beneficial use by an individual or entity;
  - beneficial use is required to establish a water right and defines the nature and extent of the right and with certain provisions, continuous beneficial use is required to maintain the right; and
  - in times of shortage, older water rights have priority over junior water rights.
- Since 1907, a permit from the State Engineer has been required to appropriate surface water or make a change to a surface water right. State Engineer permits are also required to appropriate groundwater or make a change to groundwater rights throughout the state. Since September 2005, all underground water basins within the State of New Mexico have been declared by the State Engineer.

- **Water Rights Administration**

- The State Engineer is statutorily charged with the general supervision of the state's waters and of the measurement, appropriation, and distribution thereof. The State Engineer is appointed by the Governor and confirmed by the state Senate.
- The State Engineer's responsibilities were expanded in 1931 to include all groundwater within **declared underground water basins** - which now comprise 100 percent of the state.
- Water masters appointed by the State Engineer oversee the distribution of water in water master districts throughout the state. A permit issued by the State Engineer is required to make a new appropriation of water, or to change a point of diversion or place or purpose of use of an existing water right.
- The State Engineer evaluates applications for **new appropriations** to determine if there is unappropriated water available to satisfy the proposed appropriation. Applications for a change to an existing water right require the State Engineer to determine the nature and extent of the existing water right, and whether the granting of the application **will cause detriment to existing surface water rights or impairment to existing groundwater rights, be contrary to the conservation of water within the state, or be detrimental to the public welfare of the state.**

- In FY 2022, the Office of the State Engineer processed approximately **99,944 water rights transactions**. The majority of these included change of ownership forms, well plugging records, meter readings and over 2,386 domestic well applications. During FY 2022, 646 applications were filed for permits to change existing water rights.
- Approximately one-third of applications submitted to the OSE each year are protested or aggrieved. These protested or aggrieved applications are addressed in a formal State Engineer administrative hearing process.

## **Water Rights Adjudications**

- **Another key activity of the OSE** is to obtain the judicial determination of existing water rights through water rights adjudication suits. This court process is required by statute. Typically, the first or technical phase, of the adjudication process is the production of a **hydrographic survey** to determine the elements of all water rights, including the location, quantity and priority date within a stream system. The second, or legal phase, starts with the filing of a lawsuit on behalf of the State of New Mexico that names as defendants all water right owners identified by the hydrographic survey within the geographic scope of the suit and ends with a **court judgment and decree** that describes the elements of each water right. The adjudication process provides water right owners with opportunities to challenge the determination of their own water right, and in the *inter se* stage, every other water right in the adjudication.
- The State is currently conducting **eleven** active water rights adjudication suits throughout New Mexico.

- **Tribal Negotiations**

- The OSE, with support from the ISC for negotiations that involve streams with interstate stream compacts, is currently negotiating settlements addressing the water right claims of **nine** Tribes, Pueblos, and Nations (Jemez, Zia, Ohkay Owingeh, Santa Clara, Laguna, Acoma, and Zuni Pueblos, the Navajo Nation, and the Ute Mountain Utes). Negotiations have been completed with Jemez and Zia and with Laguna and Acoma, and they are nearing completion with the Navajo Nation on the Rio San Jose, Zuni Pueblo, and Ohkay Owingeh Pueblo. The State is working with the settling parties to obtain congressional approval of the completed settlements.
- The ISC provides and/or accounts for the state cost share that allows the OSE/ISC leverage over \$2B in federal funding for regional rural water supply projects in the implementation of three federally authorized Indian water rights settlements involving five Pueblos (Taos, Nambe, Pojoaque, Tesuque, San Ildefonso) and the Navajo Nation.
- Water management in New Mexico is complicated by the state's long history of water use, the scarcity and variability of its water supply, its obligations under eight interstate stream compacts and the existence of threatened and endangered species, all in the face of greater water supply variability resulting from climate change. In addition, uncertainty regarding the water rights of New Mexico's 23 Tribes, Pueblos and Nations further complicates the management process. New Mexico is under pressure to meet its water delivery obligations to other states. Interstate litigation is resource intensive, but also important to ensure New Mexico's water future. In 2020, New Mexico celebrated a U.S. Supreme Court victory in a dispute with Texas on the Pecos River.

- **Interstate Compacts**

- New Mexico has been involved since 2012 in high stakes interstate litigation with the State of Texas and the United States in the U.S. Supreme Court on disputes under the Rio Grande Compact.. On October 25, 2022, the States of New Mexico, Texas, and Colorado announced they had reached a settlement regarding issues between the States. There will be a hearing on the proposed settlement beginning January 24, 2022. The United States has indicated it will oppose the “states-only” settlement.

- **Water Planning**

- Under the direction of Governor Lujan Grisham, the ISC is currently finalizing a **50-Year Water Plan**. The purpose of the plan is to help New Mexico prepare for water resources challenges associated with climate change, including increasing aridification. The plan includes summarizing all current science related to climate change impacts to water resources, significant stakeholder engagement on increasing our resilience, and recommendations for how New Mexico can prepare for and adapt to the projected changes. The Plan incorporates the “Leap Ahead” analysis prepared by a panel of New Mexico’s leading climate and water resource scientists convened by the NM Bureau of Geology and Mineral Resources. Also included is specific input from other State natural resource agencies, a Tribal Water Work Group organized in coordination with the Indian Affairs Department, New Mexico’s acequias communities, and other stakeholders from across the state. The ISC obtained a U.S. Army Corps of Engineers Planning Assistance to the States grant to support this initiative.

- Optimal management of New Mexico's water depends upon **sounds science and planning**. The ISC is responsible for overseeing regional planning across the state and developing and updating the State Water Plan. Planning is more important than ever due to increasing variability in water supplies, the challenges presented by climate change, and increasing demands from a growing population. OSE and ISC staff are developing increasingly sophisticated tools for measuring, monitoring, and modeling water resources into the future. The ISC completed the first comprehensive statewide water plan in 2003 and most recently updated that plan in December 2018. All 16 Regional Water Plans were updated in 2016 and 2017.

# • Office of the State Engineer Programs

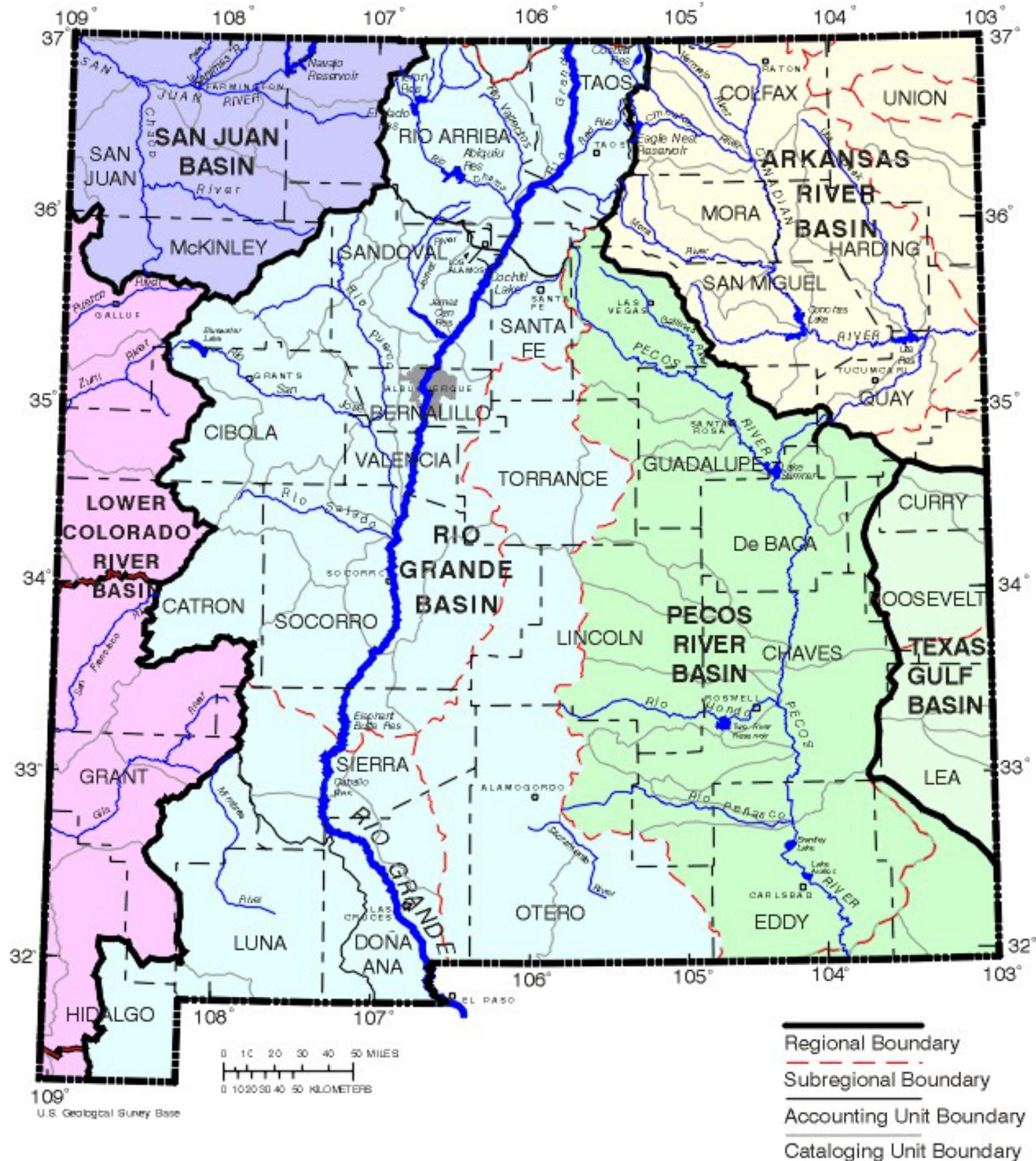
## • Water Resource Allocation Program (WRAP) (P551)

- **Purpose:** The Water Resource Allocation Program is to provide for administration, distribution, protection, conservation and development of the state's surface water and groundwater resources including the implementation of Active Water Resource Management (AWRM).
- The Water Resource Allocation Program includes: the Water Rights Division, the Statewide Projects group, the Water Rights Abstract Bureau, the Hydrology Bureau; the Water Use and Conservation Bureau; and the Dam Safety Bureau.
- Under New Mexico water law, all groundwater and surface waters are public waters of the state and subject to appropriation under the Doctrine of Prior Appropriation. The Doctrine of Prior Appropriation is a constitutional provision that states that earlier appropriations have priority over later appropriations. The Water Resource Allocation Program (WRAP) is primarily responsible for processing water rights applications, conducting the scientific research for making water rights decisions, maintaining water rights records and enforcing any conditions or restrictions on water use. Also, the program has taken the lead on the Agency initiative referred to as Active Water Resource Management (AWRM). AWRM refers to a broad range of activities that enhances the State Engineer's ability to manage and administer the actual use of water in the field and allows for "Alternative Administration" that is agreed upon by the stakeholders in a particular basin. These activities include the placement of measurement and metering devices, creation of water districts, appointment of water masters (in the field) development of water master manuals, abstracting paper files into the agency's computer of water master manuals, abstracting paper files into the agency's computer database and implementation of district-specific rules and regulations. Water masters in the program measure stream flow, allocate the water within a stream system based on state law and regulate and control diversions.

- WRAP staff inventories water resources, monitors water use and cooperates with the U.S. Geological Survey in monitoring groundwater levels throughout the state. Additional program duties include licensing all well drillers, maintaining and updating the rules and regulations of the State Engineer, providing a dam safety program, evaluating subdivision water supply plans submitted by counties and promoting water conservation. The Water Rights Abstract Bureau populates the Water Administration Technical Engineering Resource System (WATERS) database with all the individual water rights files within the state and making the information available to the public through an internet-based database. The Hydrology Bureau collects and analyzes data to support policy development and planning, evaluates the availability of water, provides expert testimony and performs other technical tasks. The Water Use and Conservation Program inventories water use in the state, calculates irrigation water right requirements and also coordinates water conservation activities in the state. The Dam Safety Bureau regulates dams that are over a certain height and storage to ensure that dam owners operate their facilities within the law and as safely as possible.
- **Benefits to New Mexicans**
  - Accountability over agency fiscal activities and operations
  - Process improvements and efficiencies for a Sustainable Water Supply
  - Safe Drinking Water
  - Safe Dams
  - Accessible and Accurate Water Right Data
  - "21" Century Water Right Administration of Water Resources
  - Water Conservation research and best practice education for the public
  - Well driller regulation and licensing, well compliance
  - Decision making based on hydrological data, modeling, real-time water use data
  - Fairness of water rights administration through promulgation of District Specific Regulations
  - Water Use Information

- **Interstate Compact Compliance and Water Development Program (Interstate Stream Commission P552)**
- **Purpose:** Interstate Stream Compact Compliance and Water Development Program supports New Mexico's continued compliance with its interstate stream compacts; works to resolve federal and interstate water issues; develops water resources and stream systems in an environmentally sound manner; and plans for the future use of water so that the people of New Mexico can have maximum sustained beneficial use of available water resources.
- **Figure 1** shows the major river basins in New Mexico. The ISC conducts activities, with direction from a nine-member Commission appointed by the governor, throughout the state with a focus on the basins subject to interstate stream compacts and/or decrees. The State Engineer serves as Secretary to the Commission.

**FIGURE 1**



Hydrologic units in New Mexico.

- **On a broad level, the ISC and its 45 staff do the following:**
  - Represent New Mexico in negotiations with other states to settle interstate stream controversies and supports the State in litigation over its interstate stream compacts. Staff support each of New Mexico's Interstate Stream Commissioners in performing their duties.
  - Conduct numerous projects and activities to support New Mexico's continued compliance with its eight interstate stream compacts and court decrees to both meet Compact requirements and protect existing water rights in New Mexico, including but not limited to;
    - Conducting daily administration of Costilla Creek and Costilla Reservoir under the Costilla Creek Compact.
    - Conducting required Decree accounting and reporting on Gila and San Francisco Rivers.
    - Implementing the 2003 Pecos River Settlement.
    - Design, implement, and support numerous river system maintenance projects on the middle Rio Grande.
    - Implement a Lower Rio Grande Pilot Program to conserve groundwater and prepare for the possible management needs associated with either settlement or the outcome of a U.S. Supreme Court trial related to the Lower Rio Grande.
    - Participate and conduct contingency planning efforts to protect New Mexico's share of interstate waters under changing conditions. Most recently, this includes negotiating Colorado River Basin agreements and implementing them within New Mexico, including the Drought Contingency Plans now in effect.

- Operate Eagle Nest Dam and own and operate Ute Reservoir.
- Provide cost share to the United States Geological Survey for river gaging on streams across New Mexico.
- Negotiate and provide assistance to the OSE in Indian water rights settlements on streams subject to interstate stream compacts.
- Administer the Indian Water Rights Settlement Fund to provide the state's cost share and aid in implementing authorized Indian water rights settlements.
- Provide assistance to acequias and community ditches to improve their irrigation systems including through the new Acequia and Community Ditch Infrastructure Fund.
- Provide post fire and flood recovery support to acequias and community ditches with funds appropriated in the 2022 legislative session.
- Provide support to communities and the OSE related to active management of the water resources in New Mexico which both protect senior water rights and meet local community needs and goals.
- Represent the state in several Endangered Species Act issues that could result in conflicts with New Mexico water users on interstate rivers and provide compliance for the state and its water users in selected areas.
- Implementing the State's Strategic Water Reserve in support of compact compliance and threatened or endangered species.

- Oversee regional water planning for the state and conduct state water planning, including planning for climate change in the 50-Year Water Plan for New Mexico.
  - Sustainably protect, develop and utilize the waters apportioned to New Mexico under interstate compacts and decrees.
  - Collaborate with the New Mexico Water Trust Board in selecting and implementing new Non-New Mexico Unit projects in southwestern New Mexico under the Arizona Water Settlements Act.
  - Actively engage in the Upper Colorado Basin States' 5-Point Plan to help improve water levels in Lake Powell so as to ensure continued power generation and protection of dam infrastructure.
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- The ISC is responsible for programming, budgeting, and directing expenditures from several sources: the ISC's operating budget; the Ute Dam Construction Fund (the ISC owns and operates Ute Dam and Reservoir); the Pecos Land Management Fund, created in 2005 to allow revenues generated from ISC-owned land to be used for land management and for maintenance and operation of augmentation wellfields; the Indian Water Rights Settlement Fund, legislative appropriations for implementing approved Indian water rights settlements; special appropriations; and two state land trust funds: the Improvement of the Rio Grande Income Fund and the Irrigation Works Construction Fund. Both trust funds were created by the Ferguson Act of 1898, which set aside grants of trust land in what was then the Territory of New Mexico to generate income for specified beneficiaries.

- **Litigation and Adjudication Program (P553)**
  - **Purpose: Litigation and Adjudication Program (LAP) are:**
    - to obtain a judicial determination and definition of water rights in stream system adjudications to support effective water rights administration and promote the State's ability to meet its interstate stream obligations;
    - to resolve disputes arising out of applications filed with the State Engineer concerning the diversion and use of the State's water;
    - to represent the Water Rights Division in administrative hearings relating to State Engineer permit applications;
    - to prosecute enforcement proceedings to ensure compliance with the water code, adjudication court orders, and State Engineer regulations, orders, permits, and licenses; and
    - to represent the State Engineer in all matters in the state and federal courts and to represent the State of New Mexico in all pending water rights adjudications.

- LAP is divided into six bureaus. Attorneys in the Administrative Litigation Unit represent the Water Rights Division of the Water Resource Allocation Program in all administrative hearings before the State Engineer and represent the State Engineer in appeals of State Engineer decisions to the courts, in enforcement proceedings to prevent illegal uses of water, and other litigation where the State Engineer is a party.
- Four bureaus (Hydrographic Survey and Mapping Bureau, Northern New Mexico Adjudication Bureau, Pecos River Adjudication Bureau, and Lower Rio Grande Adjudication Bureau) are dedicated to conducting water rights adjudications on behalf of the State of New Mexico in state and federal courts. Technical staffing these bureaus have training and expertise in GIS, surveying, and engineering. They perform hydrographic surveys to provide the factual basis for all adjudication suits and work closely with legal staff to provide technical support for ongoing adjudications and other water rights related matters.
- The newly-formed Bureau for Tribes, Pueblos, and Nations negotiates with Indian Tribes, Pueblos, and Nations to reach settlements which not only define tribal water rights but also future administrative procedures and, in some cases, the construction, operation, and maintenance of new water projects. This bureau's work also includes securing judicial approvals and legislative funding for Indian water right settlements.
- The main LAP office is located in Santa Fe. LAP also maintains a Lower Rio Grande adjudication survey office in Las Cruces, which is staffed with experienced hydrographic survey technical personnel to support the Lower Rio Grande adjudication and serves as a local point of contact for water rights owners involved in that adjudication.

- **Program Support (P554)**

- **Purpose: Program Support is to provide necessary administrative support to the Office of the State Engineer to support the Agency personnel in achieving the goals and objectives of the OSE.**

- Program Support provides administrative and management support services to the Office of the State Engineer to allow for the smooth functioning of all other programs. The program has four bureaus: Finance, Budget Services, Information Technology Systems, and Human Resources. Together they oversee the agency's payroll, operating budgeting, capital project budgeting, contracts, fixed assets, accounting, procurement, property management, personnel management, workforce development and information technology (IT). Additionally, the Hearing Unit, which falls within Program Support, conducts administrative hearings on protested and aggrieved water rights applications.

## E. Staffing Challenges

- **107 Recruitments/hires completed in past 12 months = 33.5% of our current workforce!**
  - **OSE/ISC completed recruitment of a historically high 107 out of 319 positions in the last 12 months**
    - **48 External hires (net increase in filled FTE)**
    - **59 Internal hires/advancements (no net increase in filled FTE)**
    - **23 Recruitments currently in Process**
  - **24 Employees lost in the past 12 months, 7 were retirements (approximately 5 retirements anticipated in the next 6 months), and 17 terminations or transfers to other agencies.**
  - **The agency completed a number of actions to retain current staff including:**
    - 1) 108 In Pay Band Adjustments**
    - 2) Reclassified 24 positions**
    - 3) Worked with SPO to change the minimum qualifications of positions**
- High recruitment actions in the last year - reduced vacancy rate from 21.02% to 17.55%**
- **Recruitment process is competitive, time-consuming and labor-intensive, less applicants**
  - **A large portion of agency positions require 4+ years of college and licensure**
  - **OSE competes for employees in legal, engineering, science and IT fields—often against employers like the oil & gas industry**
  - **For perspective, OSE/ISC currently has 263 filled FTE vs. 312 in January 2008**

# Vacancy Summary by Program

## OSE Organization Listing - October 2022

PCode	Program Name	Authorized	Vacant Authorized	Percent Vacant
P551	Water Resource Allocation Program	172	26	15.11%
P552	Interstate Stream Commission	46	4	8.69%
P553	Litigation & Adjudication Program	59	17	28.81%
P554	Program Support	42	9	21.42%
<b>Agency Total</b>		<b>319</b>	<b>56</b>	<b>17.55%</b>

2023 OSE/ISC Legislative Initiatives	
<b>WRAP</b>	
	Base Increase for Salaries Included:
	Maintenance of service level inflationary increase
	Lower Rio Grande depletion program (3 FTE)
	Cannabis permit staffing (2 FTE)
<b>ISC</b>	Base Increase for Salaries Included:
	Maintenance of service level inflationary increase
	Lower Rio Grande depletion program (2 FTE)
	Implement 50-Year Water Plan and complete 2023 State Water Plan
<b>LAP</b>	
	Base Increase for Salaries Included:
	Maintenance of service level inflationary increase
<b>PS</b>	
	Base Increase for Salaries Included:
	Maintenance of service level inflationary increase
	Dedicated Capital Project Management Unit
	Exempt COS/Deputy Secretary Equivelant

# Special Appropriations

<b>Sec. 5 and 7 Special Appropriations:</b>
Augmenting the water supply on the lower Rio Grande
Rio Grande river channel maintenance, habitat restoration, low flow conveyance
Colorado River litigation, litigation avoidance and compliance activities
Pecos settlement and drought relief activities
Building rental and relocation expenses for Concha Ortiz y Pino building relocation
Statewide strategic water reserve implementation and Jicarilla Apache Nation water lease for San Juan River
Extension of the LRGPP appropriation
Water Rights Adjudication Tracking System (WRATS) modernization C2
50-year water plan implementation and development of the next state water plan update
Improvements at Ute reservoir and needed repairs to Ute dam
<b>ICIP Capital:</b>
Surface Water and Ground Water Measurement Statewide
Maintain Rivers, Restore Habitat and Flood Control
Elephant Butte Delta Channel Improvements
Lower Rio Grande Aquifer Sustainability
Ute Reservoir Improvements
Strategic Water Reserve Acquisitions

# Budget Planning

- The proposed budget of the OSE/ISC is scaled to address needs resulting from persistent drought and anticipated climate change impacts.
- Foreseeable efforts to prepare New Mexicans for a challenging water future will require investments in human capacity, science and planning, protecting watersheds and aquifers as well as infrastructure to assure resilient water supplies for all communities across the state.
- Tribal Water Rights and Interstate Litigation settlements
- Leveraging the historic federal investments planned for New Mexico is critical to accomplishing these goals.

