



**gram, NMED provides to local governments and not-for-profit organizations free site assessment of properties that have remained vacant due to environmental concerns. The site assessment services may include installation of monitoring wells, soil sampling, waste characterization, and risk assessment.**

Both the State and the federal government play significant roles in water quality management in New Mexico. This chapter describes the various programs and mechanisms for water quality management in New Mexico with emphasis on the State role.

Ground water quality management has both State and federal aspects. New Mexico's ground water protection program was well-established before most of the federal legislation and regulations addressing ground water quality were adopted. State regulations controlling the disposal of oil field brines necessary to protect ground water quality have been in effect since 1969. A comprehensive ground water quality program applicable to most other types of discharges was in effect by 1977 in the form of regulations adopted by the New Mexico Water Quality Control Commission (WQCC). There are also various other State laws and regulations affecting ground water quality management.

The challenge to New Mexico has been to incorporate in its programs beneficial aspects of federal programs without disruption of State programs already in place. The State has sought and obtained primary enforcement authority over the underground injection control program established by the SDWA and the hazardous and solid waste management programs established by RCRA. The State receives limited funding from the EPA under four laws, namely, SDWA, RCRA, CWA, and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), commonly known as Superfund.

Surface water quality management in New Mexico also has State and federal aspects. The State establishes standards for intrastate and interstate waterbodies, assesses the quality of surface waters, adopts regulations, and develops programs and takes actions to protect and maintain surface water quality. The State also coordinates with EPA in implementing the CWA, the nation's primary legislation for controlling

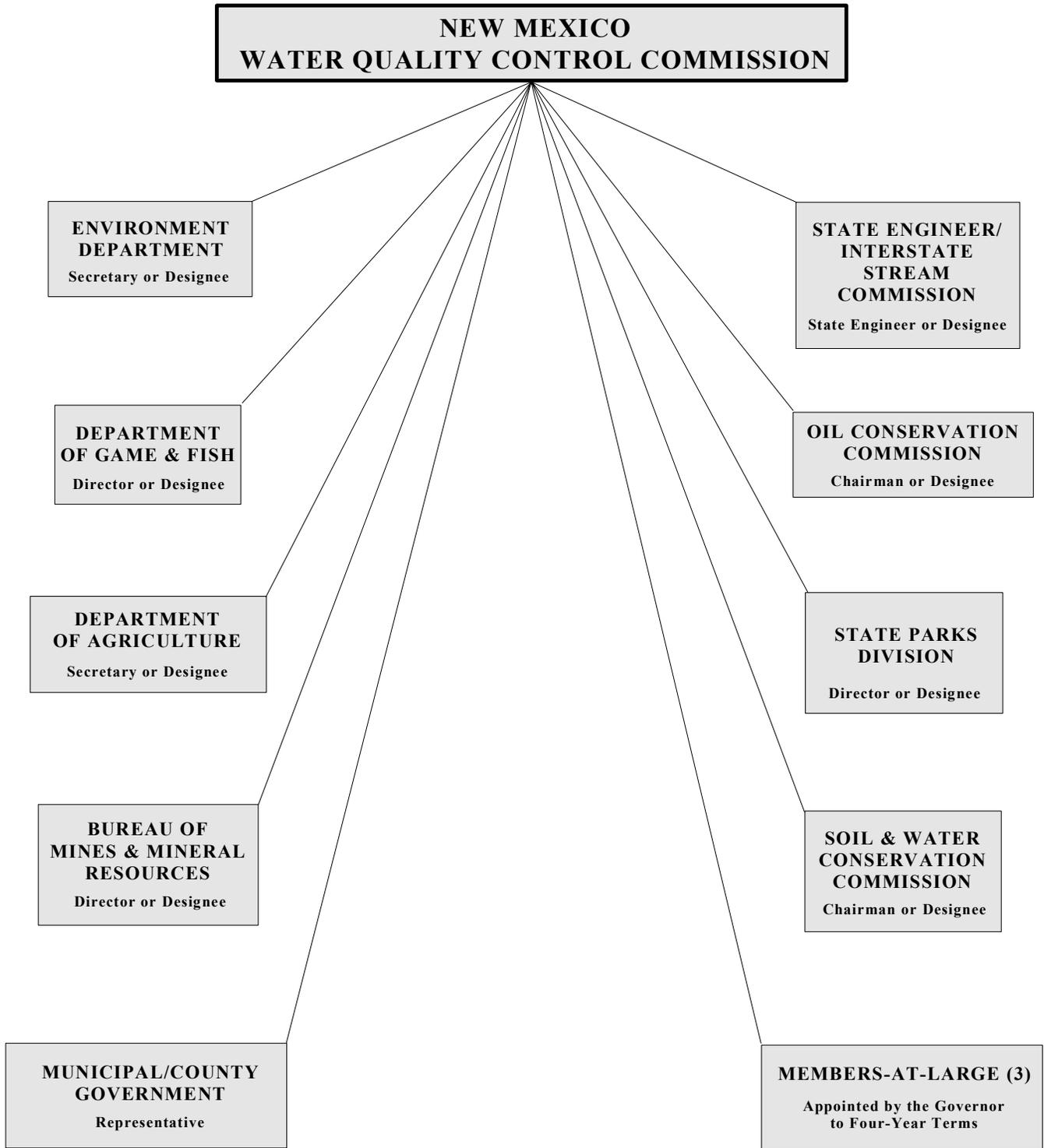
1 surface water quality. Under this act, Congress provides partial funding for State water quality planning and  
2 management activities, for State contractual assistance in the administration of the NPDES permit program,  
3 and for loans for planning, design, and construction of wastewater treatment facilities by communities. EPA  
4 administers the NPDES permit program and performs administrative responsibilities pursuant to the CWA.

### 5 **RESPONSIBILITIES OF THE WATER QUALITY CONTROL COMMISSION**

6 The basic authority for water quality management in New Mexico is provided through the New Mex-  
7 ico Water Quality Act (Sections 74-6-1 et seq., NMSA 1978). This law establishes the WQCC and specifies  
8 its duties and powers. These include adoption of a comprehensive water quality management program, the  
9 formal approval and adoption into the New Mexico Water Quality Management Plan of Total Maximum  
10 Daily Loads, the development of a continuing planning process, the administration of loans and grants from  
11 the federal government, the adoption of water quality standards, and the adoption of regulations 'to prevent  
12 or abate water pollution in the state or in any specific geographic area or watershed of the state...or for any  
13 class of waters.' Under this act, water is defined as 'all water, including water situated wholly or partly  
14 within or bordering upon the state, whether surface or subsurface, public or private, except private waters  
15 that do not combine with other surface or subsurface water.' The WQCC is the State water pollution control  
16 agency for all purposes of the federal CWA and may take all necessary actions to secure the benefits of the  
17 Act. The composition of the WQCC is shown below in Figure 3.1.

18

Figure 3.1. Composition of the New Mexico Water Quality Control Commission



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1 Under the authority of the Water Quality Act, the WQCC had adopted the basic framework for water  
2 quality management in New Mexico. Major components of this framework include the continuing planning  
3 process, the State water quality management plan, ground and surface water quality standards, ground water  
4 protection regulations, underground injection control regulations, regulations for discharge to surface wa-  
5 ters, a regulation on disposal of refuse, a spill cleanup regulation, ground water pollution abatement regula-  
6 tions, utility operator certification, and wastewater facility construction loan regulations. In addition, the  
7 WQCC approved a nonpoint source management program in 1989 which was updated and submitted to the  
8 EPA in ~~December 1999~~ **January 2004**.

9 These major components are reviewed briefly below. Where more detailed discussion of certain  
10 components is found elsewhere, cross-references are made to the appropriate sections. As the WQCC has  
11 no technical staff of its own, responsibilities for water quality management activities are delegated to con-  
12 stituent agencies, generally the New Mexico Environment Department (NMED) or the Oil Conservation Di-  
13 vision (OCD) of the New Mexico Energy, Minerals and Natural Resources Department (EMNRD).

#### 14 **Continuing Planning Process**

15 The continuing planning process required by the CWA provides a framework for water pollution  
16 control activities in the State by describing program components and interrelationships. The present con-  
17 tinuing planning process was adopted by the WQCC in 1998 (**WQCC 1998**).

#### 18 **Water Quality Management Plan**

19 The State water quality management plan helps set direction for further study of water pollution, op-  
20 tions to be considered in development of water pollution control mechanisms such as the "Total Maximum  
21 Daily Load" process, and most importantly, strategies to be implemented by State, local, and federal agen-  
22 cies to maintain and, as necessary, improve water quality in New Mexico. The WQCC adopted the plan in  
23 November 1978 and May 1979 (**WQCC 1979**) and has delegated responsibility for development of most  
24 elements of the plan to NMED. The plan has been updated many times, with the most recent ~~draft update~~

1 ~~during 2002~~ **one that was adopted in 2003** representing a major restructuring of the document to coincide  
2 with specific CWA requirements. All TMDLs adopted by the WQCC become part of the water quality  
3 management plan.

#### 4 **Ground Water Quality Standards**

5 Water quality standards for 47 contaminants or classes of contaminants are included in the ground  
6 water protection regulations (**WQCC 1996**, 20.6.2.3103 NMAC), discussed below.

#### 7 **Surface Water Quality Standards**

8 Under the Water Quality Act, the WQCC is required to promulgate surface water quality standards  
9 (**WQCC 2000**). These standards include: (1) general standards applicable at all times to all surface waters  
10 of the State, unless otherwise stipulated in site-specific criteria and (2) site-specific standards for each of  
11 69 segments set out in the standards, including their designated uses, for which the water quality is to be  
12 maintained, and numeric and narrative standards to sustain the uses; and (3) use-specific numeric water  
13 quality standards set out in § 20.6.4.900 NMAC for existing, attainable and designated uses. The standards  
14 are subject to triennial review and appropriate revision pursuant to § 303(c) of the federal CWA. Amend-  
15 ments may be proposed at any time by NMED or others, as the Water Quality Act specifies that any person  
16 may propose amendments to the standards (§ 74-6-6. B). Proposed amendments are presented at public  
17 hearings before consideration and adoption by the WQCC. The latest triennial review ~~hearing concluded on~~  
18 ~~October 1, 1998 followed by WQCC approval on January 11, 2000~~ **was opened August 15, 2003.-**

#### 19 **Underground Injection Control Regulations**

20 Underground injection wells, other than those associated with oil and gas production, are regulated  
21 under the general ground water protection requirements (20.6.2.3000 to 20.6.2.3114 NMAC) of the WQCC  
22 regulations and under the Underground Injection Control section (20.6.2.5000 to 20.6.2.5210 NMAC) of the  
23 WQCC regulations (**WQCC 1996**). All types of underground injection wells except those associated with  
24 oil and gas production are subject to the Permitting and Ground Water Standards (20.6.2.3000 to

1 20.6.2.3114 NMAC) and must meet all applicable provisions of these regulations. The underground injec-  
2 tion control regulations impose technical requirements on injection wells used for effluent disposal and *in-*  
3 *situ* mineral extraction.**Ground Water Protection Regulations**

4 Both the Permitting and Ground Water Standards and the underground injection control sections of  
5 the WQCC regulations (~~WQCC 1996~~) are designed to protect all ground water with total dissolved solids  
6 concentrations of 10,000 mg/L or less for present and potential use as domestic and agricultural water sup-  
7 ply.

#### 8 **Regulations for Discharge to Surface Waters**

9 State regulations for this purpose, §§ 20.6.2.2100 to 20.6.2.2102 NMAC of the WQCC regulations  
10 (~~WQCC 1996~~), are administered by NMED and OCD. As the WQCC has, to date, determined that the  
11 federal NPDES permit program should be the primary mechanism for controlling point source discharges to  
12 surface water in the State, the WQCC has incorporated a mechanism into the regulations to ensure NPDES  
13 permittees normally are not simultaneously subject to federal and State regulations. The WQCC recognizes  
14 that NMED has the responsibility to coordinate, under contract, with EPA in administering the NPDES per-  
15 mit program.

#### 16 **Regulation of Disposal of Refuse**

17 Section 20.6.2.2201 NMAC of the WQCC regulations (~~WQCC 1996~~) prohibits the disposal of re-  
18 fuse in a natural watercourse or in a location or manner where there is a reasonable probability that refuse  
19 will be moved into a natural water course. "Refuse" is broadly defined (~~WQCC 1996~~, subsection KK of §  
20 20.6.2.7 NMAC) and includes, among other things, all substances from the preparation, cooking, and con-  
21 sumption of food and from the handling, storage, and sale of food products, junked parts of automobiles and  
22 other machinery, paper and paper products, oil, ashes, tailings, and all unwholesome materials. NMED has  
23 used this regulation as a legal basis to stop discharge of sludge from domestic wastewater treatment plants  
24 into watercourses.

## Cleanup Regulation

Section 20.6.2.1203 NMAC of the WQCC regulations is a major tool for controlling ground and surface water pollution. First, this regulation requires most leaks, spills, and other unregulated discharges that enter, or have the potential to enter surface or ground water, to be reported to NMED without delay. The only exceptions are those discharges where laws, rules, regulations, or orders require notification to OCD. WQCC regulation § 20.6.2.1203.A NMAC requires that, "the owner/operator of the facility shall take such corrective actions as are necessary or appropriate to contain and remove or mitigate the damage caused by the discharge," of a water contaminant. This non-specific regulation, adopted in 1974 and modified in 1987, has been used to compel actions ranging from simple soil removal to long-term ground water remediation.

However, most longer-term cleanups are now handled under 20.6.2.400 to 20.6.2.4115 NMAC of the WQCC Regulations, also known as the Abatement Regulations. An abatement plan includes Stage 1 (investigation) and Stage 2 (alternative selection, design and implementation) components. Abatement standards exist for the vadose zone, ground water and surface water. This section of the WQCC Regulations also includes provisions for public notice, public meetings in cases where there is significant public interest, technical infeasibility demonstrations, risk-based variances allowing cleanup to "alternative abatement standards", dispute resolution, and appeals. **To avoid double regulation by the state, this section also includes exemptions for discharges where corrective action is being taken under the jurisdiction of other equivalent regulations, for example, the petroleum storage regulations.**

## Utility Operator Certification Regulations

20.7.4 NMAC regulations help support compliance with NPDES permit limitations and State regulations in two ways: (1) by requiring utility operators to demonstrate knowledge of wastewater treatment through testing and to further their knowledge through continuing training; and, (2) by requiring that wastewater utilities be adequately staffed with certified operators. The regulations are administered and enforced by NMED.

## Wastewater Facility Construction Loan Regulations

Regulations pursuant to the Wastewater Facility Construction Loan Act (Part 5, 20.7.5 NMAC) were amended by the WQCC in 1993. These regulations are used by NMED in the administration of the State revolving loan program. Part 5 defines eligibility for local authorities to borrow State and federal monies from a revolving loan fund for wastewater facility construction. The regulations also address eligible and ineligible construction items, the priority system and priority lists (project ranking), application procedures, and administration of the loan program and fund. ~~The last topic includes criteria for zero and three percent interest rates which are available under certain conditions.~~ The FY ~~1998-2003~~ interest rate is ~~four~~ **three** percent. **Reduced rates ranging from 0 – 2 % are available for low income communities. The total amount of monies loaned or obligated to loans as of July 1, 2003 was \$133,000,000.**

## Nonpoint Source Pollution Management Program

The WQCC has approved a nonpoint source pollution management program (**WQCC 19794**) mandated by the United States Congress in the 1987 Amendments to the CWA. This program was recently updated ~~and approved by EPA in January 2000~~ **in January 2004.**

## Clean Water Action Plan

In order to help meet the goals of the Clean Water Act, states were requested, in 1998, through the Clean Water Action Plan (CWAP) to identify and prioritize watersheds with water quality problems. New Mexico used a cooperative approach to develop the Unified Watershed Assessment (UWA) that identified the following categories of watersheds (utilizing the USGS 8-digit system of watershed delineation): Category I.- Watersheds in Need of Restoration; Category II.- Watersheds Meeting Goals; Category III.- Watersheds with Pristine/Sensitive Aquatic System Conditions; and Category IV.- Watersheds with Insufficient Data to make an Assessment. Category I watersheds fall within several of New Mexico's basins and will have additional monies through the CWAP process directed to nonpoint source pollution projects within these watersheds in the near future. These funds will focus on watersheds prioritized within the Category I

1 watersheds.

## 2 **Other Responsibilities**

3 Besides responsibilities for components of the basic framework reviewed above, the New Mexico  
4 Water Quality Act has assigned or the WQCC has delegated other water quality management responsibilities  
5 to NMED or OCD. These responsibilities include the following:

- 6 · State certification of licenses to construct and operate power dam facilities issued by the Federal En-  
7 ergy Regulatory Commission;
- 8 · investigations of existing water quality;
- 9 · lead agency for all nonpoint source pollution control activities;
- 10 · determination of the extent and causes of water pollution; and
- 11 · State certification of permits issued under CWA §§404 (Dredge-and-Fill permits) and 402 (NPDES  
12 permits).

## 13 **OTHER PROGRAMS RELEVANT TO WATER POLLUTION CONTROL**

14 Not all programs and mechanisms for water pollution control in New Mexico fall under the jurisdic-  
15 tion of the WQCC. This is especially true for ground water quality management. Among the major respon-  
16 sibilities are those of the OCD for protection of fresh water, and management of non-domestic and non-  
17 hazardous solid waste from oil and natural gas production facilities under the New Mexico Oil and Gas Act,  
18 EMNRD's Mining and Minerals Division (MMD) for reclamation of mining sites to mitigate impacts asso-  
19 ciated with hard rock mining under the New Mexico Mining Act, and those of the New Mexico Environ-  
20 mental Improvement Board for hazardous waste management, ~~underground~~ storage tanks, liquid waste dis-  
21 posal, solid waste management, and emergency response under several State laws. In addition, NMED co-  
22 ordinates with the federal government in the implementation of Superfund **and implements the New Mex-**  
23 **ico Voluntary Remediation Program (VRP). The VRP is designed to promote voluntary cleanup of**  
24 **contaminated sites that are not participating in other regulatory or enforcement programs, by appli-**

1 **cants that do not have a history of noncompliance with environmental laws.** The Office of the State  
2 Engineer regulates ground water withdrawals in order to prevent saline water encroachment into fresh water.

3 **~~Changes in the Underground Storage Tank Program~~**

4 ~~The Ground Water Protection Act provides a State Corrective Action Fund for NMED to use in tak-~~  
5 ~~ing corrective action at sites contaminated by the contents of leaking underground storage tanks and to allow~~  
6 ~~for the reimbursement of tank owners and operators for the costs of corrective action. In 1995 the Act was~~  
7 ~~amended to: 1) limit reimbursement for corrective action done by geotechnical companies affiliated with~~  
8 ~~petroleum tank owners and operators ("affiliates"), 2) require qualification of firms conducting corrective~~  
9 ~~action in order for the work to be eligible for reimbursement, and 3) require that all corrective action be~~  
10 ~~competitively bid in order to qualify for reimbursement. In 1996, the Petroleum Products Loading Fee Act~~  
11 ~~was modified again, this time to triple the amount of money going into the Fund from \$40 to \$120 per load~~  
12 ~~and to set out conditions for reducing or increasing the loading fee based on the unobligated balance in the~~  
13 ~~Fund. In 1998 the Secretary of the Environment Department certified a fund balance of greater than \$12~~  
14 ~~million dollars, resulting in a decrease of the loading fee back to \$40 per load.~~

1 REFERENCES: THE STATE ROLE IN WATER QUALITY MANAGEMENT

2  
3 ~~New Mexico Water Quality Control Commission~~

4  
5 **New Mexico Water Quality Control Commission. 1979. *New Mexico Statewide Water***  
6 ***Quality Management Plan.* Santa Fe. 107 Pages.**

7  
8 ~~1) 1998 New Mexico Water Quality Control Commission. 1998. *State of New Mexico*~~  
9 ~~*Continuing Planning Process.* Santa Fe.~~

10  
11 ~~2) 1996 New Mexico Water Quality Control Commission. 1996. *New Mexico Water*~~  
12 ~~*Quality Control Commission regulations* as amended through December 1, 2001. 20.6.2~~  
13 ~~NMAC. Santa Fe. 50 pages.~~

14  
15 ~~3) 2000 New Mexico Water Quality Control Commission. 2000. *Water Quality Standards*~~  
16 ~~*for Interstate and Intrastate Surface Waters in New Mexico.* 20.6.4 NMAC. Santa Fe.~~  
17 ~~51 Pages.~~

18  
19 ~~4) 1979 *New Mexico Statewide Water Quality Management Plan.* Santa Fe. 107 Pages.~~