

**CALENDAR YEAR 2009**

**COLORADO DRINKING WATER  
ANNUAL COMPLIANCE REPORT**

July 1, 2010

**I. Introduction**

The Drinking Water Program: An Overview

The EPA established the Public Water System Supervision (PWSS) Program under the authority of the 1974 Safe Drinking Water Act (SDWA). Under the SDWA and the 1986 Amendments, EPA sets national limits on contaminant levels in drinking water to ensure that the water is safe for human consumption. These limits are known as Maximum contaminant levels (MCLs). For some regulations, EPA establishes treatment techniques in lieu of an MCL to control unacceptable levels of contaminants in drinking water. The Agency also regulates how often public water systems (PWSs) monitor their water for contaminants and report the monitoring results to the states or EPA. Generally, the larger the population served by a water system, the more frequent the monitoring and reporting (M/R) requirements. In addition, EPA requires PWSs to monitor for unregulated contaminants to provide data for future regulatory development. Finally, EPA requires PWSs to notify the public when they have violated these regulations. The 1996 Amendments to the SDWA require public notification to include a clear and understandable explanation of the nature of the violation, its potential adverse health effects, steps that the PWS is undertaking to correct the violation, and the possibility of alternative water supplies during the violation.

The SDWA applies to the 50 states, the District of Columbia, Indian Lands, Puerto Rico, the Virgin Islands, American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the Republic of Palau.

The SDWA allows states and territories to seek EPA approval to administer their own PWSS Programs. The authority to run a PWSS Program is called primacy. For a state to receive primacy, EPA must determine that the state meets certain requirements laid out in the SDWA and the regulations, including the adoption of drinking water regulations that are at least as stringent as the Federal regulations and a demonstration that the state can enforce the program requirements. Of the 57 states and territories, all but Wyoming and the District of Columbia have primacy. The EPA Regional Offices administer the PWSS Programs within these two jurisdictions.

The 1986 SDWA Amendments gave Indian Tribes the right to apply for and receive primacy. To receive primacy, a Tribe must meet the same requirements as a state. To date, no Tribes have been granted primacy. Currently, EPA administers PWSS Programs on all Indian lands.

## Annual State PWS Report

Primacy states submit data to the federal Safe Drinking Water Information System (SDWIS/FED) on a quarterly basis. Data include PWS inventory statistics, the incidence of maximum contaminant level violations (MCLs), maximum residual disinfectant level violations, major monitoring and treatment technique violations, lead action level exceedances, lead 90<sup>th</sup> percentile data, and the enforcement actions taken against violators. The annual compliance report that states are required to submit to EPA will provide a total annual representation of the numbers of violations for each of the four categories listed in section 1414(c)(3) of the Safe Drinking Water Act reauthorization. These four categories are: MCLs, treatment techniques, variances and exemptions, and significant monitoring violations. The EPA Regional Offices report the information for Wyoming, the District of Columbia, and all Indian Lands. Regional offices also report Federal enforcement actions taken. EPA stores these data in an automated database called the Safe Drinking Water Information System (SDWIS). This report is based largely on data retrieved from the State version of the Safe Drinking Water Information System (SDWIS/STATE).

The first annual report was generated January 1, 1998, for the compliance period of calendar year 1996. This report covers calendar year 2009. Subsequent reports will be generated each July 1 for the previous calendar year.

## Public Water System

A Public Water System (PWS) is defined as a system that provides water via piping or other constructed conveyances for human consumption to at least 15 service connections or serves an average of at least 25 people for at least 60 days each year. There are three types of PWSs. A PWS can be community (such as towns), non-transient non-community (such as schools or factories), or transient non-community systems (such as restaurants, rest stops or parks). For the purpose of this report the acronym "PWS" means systems of all types of public water systems, unless, specified in greater detail.

## Maximum Contaminant Level

Under the Safe Drinking Water Act (SDWA), the EPA sets national limits on contaminant levels in drinking water to ensure that the water is safe for human consumption. These limits are known as maximum contaminant levels (MCLs). Under the lead and copper rule, the national limits are called "action levels" rather than MCLs.

## Maximum Residual Disinfectant Level

Under Section 1412 of the Safe Drinking Water Act (SDWA), the EPA sets levels of a disinfectant added for treatment of water that may not be exceeded. These limits are known as maximum residual disinfectant level (MRDLs) and are enforceable in the same manner as MCLs.

## Treatment Techniques

For some regulations, the EPA establishes treatment techniques (TTs) in lieu of a MCL to control unacceptable levels of certain contaminants. For example, treatment techniques have been established for viruses, bacteria, disinfection byproduct precursors and turbidity.

## Variations and Exemptions

A primacy state can grant a PWS a variance from a primary drinking water regulation if the characteristics of the raw water sources reasonably available to the PWS do not allow the system to meet the MCL. To obtain a variance, the system must agree to install the best available technology, treatment techniques, or other means of limiting drinking water contamination that the Administrator finds are available (taking costs into account), and the state must find that the variance will not result in an unreasonable risk to public health. At the time the variance is granted, the state must prescribe a schedule (including increments of progress) that the PWS will follow to come into eventual compliance with the MCL. Small systems (those serving 3,300 or fewer persons; or 10,000 or fewer persons with the Administrator's approval) may also be granted variances if they cannot afford (as determined by application of the Administrator's affordability criteria) to comply with certain MCLs (non-microbial), promulgated after January 1, 1986) by means of treatment, alternative source of water, or restructuring or consolidation. Small systems will be allowed three years to install and operate EPA approved small system variance technology. The variance shall be reviewed not less than every five years to determine if the system remains eligible for the variance.

A primacy state can grant an exemption to temporarily relieve a PWS of its obligation to comply with an MCL, treatment technique, or both if the system's noncompliance results from compelling factors (which may include economic factors) and the system was in operation on the effective date of the MCL or treatment technique requirement. A new PWS that was not in operation on the effective date of the MCL or treatment technique requirement by that date may be granted an exemption only if no reasonable alternative source of drinking water is available to the new system. Neither an old nor a new PWS is eligible for an exemption if management or restructuring changes can reasonably be made that will result in compliance with the SDWA or improvement of water quality, or if the exemption will result in an unreasonable risk to public health. The state will require the PWS to comply with the MCL or treatment technique as expeditiously as practicable, but not later than three years after the otherwise applicable compliance date.

## Monitoring

A PWS is required to monitor and verify that the levels of contaminants present in the water do not exceed the MCL. If a PWS fails to have its water tested as required or fails to report test results correctly to the primacy agency, a monitoring violation occurs.

## Significant Monitoring Violations

For this report, significant monitoring violations are generally defined as any major monitoring violation that occurred during the calendar year of the report. A major monitoring violation, with rare exceptions, such as turbidity monitoring, occurs when no samples were taken or no results were reported during a compliance period.

## II. Calendar Year 2009 Statistics

### Sources of Data

Prior to Colorado's implementation of the Safe Drinking Water Information System (SDWIS/State), the Annual Compliance Report was based on data captured from the SDWIS/Fed dataset frozen in April. The State began using SDWIS/State production data to compile the Annual Compliance Report in June 2007 for the Calendar Year 2006 report. This 2009 Report is based on data provided by U. S. EPA from the SDWIS/FED April 2010 dataset and Colorado's production SDWIS/State database compiled in June 2010.

Appendix A summarizes violations of all requirements during calendar year 2009, the period covered by the report. Violations that began before January 1, 2009 and continued into 2009; violations that ended during 2009; and violations at public water systems that operated for only part of, or permanently ceased operations during, 2009 are included in Appendix A. Only monitoring/reporting violations that occurred when no samples were taken or no results were submitted during 2009 are included.

Appendix B lists the public water systems that were in violation of maximum contaminant levels and/or treatment technique requirements in calendar year 2009.

### Chemical and Radiological Contaminants (Organic, Inorganic, Nitrogen Compounds, and Radionuclides)

The chemical contaminants monitored in drinking water include organic chemicals, inorganic chemicals, and radiological parameters. Monitoring requirements for the various chemical contaminants vary by system type and source, except that monitoring for nitrate, an inorganic chemical contaminant, is required for all systems annually. Systems are required to increase their monitoring to quarterly based on the following criteria: 1) For organic chemical contaminants, when the contaminant exceeds the trigger level specified in the regulations; 2) for inorganic contaminants, when the contaminant exceeds the MCL; and 3) for nitrates, when the nitrate level exceeds half the MCL for community and non-transient non community water systems.

Calendar year 2009 was the second year in a three-year compliance cycle. Although the State designates a specific year for each system to conduct monitoring, the failure-to-monitor may not be reported to SDWIS/Fed as a violation until the end of the three-year cycle. For that reason, data show a similar number of violations in the monitoring/reporting category when compared to calendar year 2008, with a decrease from 2007, which was the last year in a three-year compliance cycle. Refer to Table One for a summary of the MCL and the monitoring and reporting violations that were identified in calendar year 2009.

The violations for chemical and radiological contaminant monitoring and reporting and for MCLs were distributed as follows:

Organic Chemicals: No systems exceeded the MCLs for organic chemicals in calendar year 2009. There were 19 public water systems that failed to monitor synthetic organic contaminants resulting in 326 violations and 36 public water systems that failed to monitor for volatile organic compounds resulting in 677 violations.

### Inorganic Chemicals:

Groundwater systems are required to monitor for inorganic chemicals once during the compliance period 2008 through 2010, inclusive. Surface water systems are required to monitor for inorganic chemicals annually. In addition, all systems are required to monitor for nitrate annually and nitrite once every nine years. For all inorganic chemical contaminants, there were 500 occurrences of monitoring and/or reporting violations from 148 different systems. Additionally, 15 systems exceeded the MCL for nitrate and 10 systems exceeded the MCL for other inorganic chemical contaminants in 2009.

### Radionuclides:

Community water systems were required to submit radionuclide samples as requested by the division during the four-year initial monitoring period under the revised radionuclide rule. In 2009, there were 36 systems that exceeded a radiological MCL. Twelve (12) systems failed to monitor for one or more radionuclides during 2009, resulting in 16 violations.

*Table One: Summary of Chemical and Radiological Violations by Rule and Type*

Rule Type	SUBGROUP	MCLS		MONITORING	
		# of Violations	# of PWS in Violation	# of Violations	# of PWS in Violation
CHEM	Synthetic Organic Contaminants (SOC)	0	0	326	19
CHEM	Volatile Organic Contaminants (VOC)	0	0	677	36
CHEM	Inorganic Contaminants	20	10	333	148
CHEM	Nitrate/Nitrite	29	15	167	
CHEM	RADs	37	36	22	12
	<b>Subtotal Chem/Rads</b>	<b>86</b>	<b>60</b>	<b>1525</b>	<b>186</b>

### Coliform Bacteria Violations

A total of 2035 public water systems were required to monitor for the presence of coliform bacteria in 2009. The 2009 monitoring revealed 49 systems that detected and confirmed the presence of coliform bacteria in the water a total of 68 times. Of these 68 violations, seven (7) were acute with possible immediate health threats, and 61 were not acute violations. In all cases, systems were required to investigate and correct and issue public notification. In the case of the acute violations, notification to the public was required within 24 hours of the problem being identified, and may have included a boil or bottle water order and increased monitoring.

Also during the 2009 calendar year, 260 systems failed to take samples representing 363 separate violations. These violations resulted in system notification and/or enforcement action. Systems receiving violations were required to issue public notification.

## **Water Treatment Rule (Surface Water and Ground Water)**

### ***Surface Water***

Of the 234 surface water and 85 groundwater-under-the-influence-of-surface-water systems active in the state in 2009, 17 systems had a total of 32 violations of treatment technique (TT) requirements. These violations were due to either inadequate filtration resulting in high turbidity (cloudiness) of the water, inadequate disinfection with chlorine, or a failure to filter as required.

In 2009, 60 systems had significant monitoring violations for turbidity or chlorine disinfectant residual, resulting in 109 separate violations. Drinking water plants that are unable to maintain compliance with the requirements for filtration of water supplies are evaluated and provided with technical assistance to ascertain the cause of non-compliance. The problems vary from poor operation to the need for new treatment plants. Where necessary, enforcement action is taken to assure that proper treatment techniques are used to provide safe water to the consumers.

### ***Ground Water***

The Ground Water Rule was effective in Colorado on December 1, 2009 and the division conducted compliance activities for the month of December. Two systems failed to conduct required source water monitoring under the Ground Water Rule in 2009.

## **Lead and Copper Rule**

This rule applied to 1045 public water systems and requires systems to monitor for lead and copper levels, and install corrosion control and educate consumers if appropriate. If elevated lead or copper levels are found, treatment evaluations or changes may be required to bring the drinking water to within the required action levels. In 2009, no systems failed to educate their customers of the potential health problems resulting from elevated lead levels. However, in the calendar year 2009, 138 systems failed to perform required lead and copper monitoring. One system remained out of compliance with completion of a treatment technique requirement first identified in 2006. Violations that were either uncorrected on January 1, 2009, or that occurred in calendar year 2009 are included in the data for this report.

## **Consumer Confidence Report (CCR) Rule**

In calendar year 2009, 12 community public water systems received reporting violations for failing to submit a 2008 Consumer Confidence Report by the July 1, 2009 deadline.

## **Disinfection Byproducts Rule, Stage 1**

In calendar year 2009, 13 public water systems exceeded the MCLs for either TTHM or HAA5 for a total of 35 violations. There were two (2) treatment technique precursor removal violations by two (2) systems, and 157 significant monitoring/reporting violations by 123 systems.

*Table Two: Summary of Distribution System and Treatment Violations by Rule and Type*

Rule Type	SUBGROUP	MCLS		TREATMENT TECHNIQUES		MONITORING	
		# of Violations	# of PWS in Violation	# of Violations	# of PWS in Violation	# of Violations	# of PWS in Violation
RULE	TCR	68	49			363	260
RULE	SWTRs			32	17	109	60
RULE	Pb/CU rule			1	1	170	138
RULE	DBP Rule	35	13	2	2	157	123
<b>Subtotal</b>		<b>103</b>	<b>61</b>	<b>35</b>	<b>20</b>	<b>799</b>	<b>458</b>

### **III. Variances and Exemptions**

The following public water system has been granted a variance/exemption which remained in effect in 2009.

<b>PWSID</b>	<b>SYSTEM NAME</b>	<b>RULE/CONTAMINANT</b>
CO0225116	Climax Molybdenum CO Henderson Mill	DBP/TTHM MCL

The following public water system was granted a variance/exemption that remained in effect until January 23, 2009.

<b>PWSID</b>	<b>SYSTEM NAME</b>	<b>RULE/CONTAMINANT</b>
CO0163001	Eckley, Town of	IOC/Arsenic MCL

The Town of Eckley installed treatment and achieved compliance with the arsenic MCL in 2009.

### **IV. List of Public Water Systems that were in Violation of One or More MCLs or Treatment Techniques during Calendar Year 2009**

See Appendix B, attached. All systems that were in violation of an MCL or treatment technique at any time during calendar year 2009, regardless of when the violation was determined, are included in Appendix B. Note also that systems with unresolved chemical or radiological MCLs, and certain treatment technique violations (such as failure to filter) on January 1, 2009 are included in Appendix B.

## **V. Report Availability and Contact Information**

The 2009 summary report may be obtained by writing to:

Colorado Department of Public Health and Environment  
Water Quality Control Division/Compliance Assurance Section  
ATTN: Annual Compliance Report  
CADM-B2  
4300 Cherry Creek Drive South  
Denver, CO 80246

In addition, this summary report has been posted on the Water Quality Control Division's Website at <http://www.cdphe.state.co.us/wq/drinkingwater>

For further information concerning this report you may contact Rick Koplitz with the WQCD Drinking Water Compliance Assurance Unit at (303) 692-3664 or by electronic mail at [rick.koplitz@state.co.us](mailto:rick.koplitz@state.co.us).



Inorganic Contaminants (IOC)			MCL Violations		Significant Monitoring/Reporting Violations	
SDWIS Code	Contaminant	Maximum Contaminant Level (MCL)	Number of Violations	Systems in Violation	Number of Violations	Number of Water Systems in Violation
1005	ARSENIC	0.010 MG/L	4	4*	29	24
1010	BARIUM	2 MG/L	0	0	28	23
1015	CADMIUM	0.005 MG/L	0	0	28	23
1020	CHROMIUM	0.1 MG/L	0	0	28	23
1024	CYANIDE	0.2 MG/L	0	0	0	0
1025	FLUORIDE	4.0 MG/L	14	4	25	20
1035	MERCURY	0.002 MG/L	0	0	28	23
1036	NICKEL	-	0	0	28	23
1038	NITRATE-NITRITE	10 MG/L	0	0	0	0
1040	NITRATE	10 MG/L	29	15	156	132
1041	NITRITE	1 MG/L	0	0	11	10
1045	SELENIUM	0.05 MG/L	2	2	28	23
1052	SODIUM	10000 MG/L	0	0	27	22
1074	ANTIMONY, TOTAL	0.006 MG/L	0	0	28	23
1075	BERYLLIUM, TOTAL	0.004 MG/L	0	0	28	23
1085	THALLIUM, TOTAL	0.002 MG/L	0	0	28	23
1094	ASBESTOS	7 MFL	0	0	0	0
<b>IOC Totals</b>			<b>49</b>	<b>25</b>	<b>500</b>	<b>148</b>

*\*The City of Alamosa installed treatment for arsenic removal in 2008; the violations for Alamosa and two systems that received water from Alamosa were not resolved until 2009 when sampling had established that arsenic contaminant levels were reliably and consistently below the MCL. The three systems are included in these statistics, however, data collected in 2009 show that these systems were not serving water with arsenic levels exceeding the standard in 2009.*

Radionuclides Contaminants (RAD)			MCL Violations		Significant Monitoring/Reporting Violations	
SDWIS Code	Contaminant	Maximum Contaminant Level (MCL)	Number of Violations	Number of Water Systems in	Number of Violations	Number of Water Systems in Violation
4000	GROSS ALPHA, EXCL. RADON & U	15 PCI/L	9	11	8	7
4006	COMBINED URANIUM	30 UG/L	7	10	6	5
4010	COMBINED RADIUM (-226 & -228)	5 PCI/L	21	25	6	5
4020	RADIUM 226	-	0	0	1	1
4030	RADIUM 228	-	0	0	1	1
4100	GROSS BETA PARTICLE ACTIVITY	4 MREMY	0	0	0	0
4101	MAN-MADE BETA PARTICLE & PHOTON EMITTERS	-	0	0	0	0
4102	TRITIUM	20000 PCI/L	0	0	0	0
4174	38-STRONTIUM-90	8 PCI/L	0	0	0	0
<b>RAD Totals</b>			<b>37</b>	<b>36</b>	<b>22</b>	<b>12</b>

Synthetic Organic Contaminants (SOC)			MCL Violations		Significant Monitoring/Reporting Violations	
SDWIS Code	Contaminant	Maximum Contaminant Level (MCL)	Number of Violations	Number of Water Systems in	Number of Violations	Number of Water Systems in Violation
2005	ENDRIN	0.002 MG/L	0	0	10	8
2010	BHC-GAMMA	0.0002 MG/L	0	0	10	8
2015	METHOXYCHLOR	0.04 MG/L	0	0	10	8
2020	TOXAPHENE	0.003 MG/L	0	0	10	8
2031	DALAPON	0.2 MG/L	0	0	11	9
2032	DIQUAT	0.02 MG/L	0	0	10	8
2033	ENDOTHALL	0.1 MG/L	0	0	10	8
2034	GLYPHOSATE	0.7 MG/L	0	0	0	0
2035	DI(2-ETHYLHEXYL) ADIPATE	0.4 MG/L	0	0	12	10
2036	OXAMYL	0.2 MG/L	0	0	10	8
2037	SIMAZINE	0.004 MG/L	0	0	11	8
2039	DI(2-ETHYLHEXYL) PHTHALATE	0.006 MG/L	0	0	18	14
2040	PICLORAM	0.5 MG/L	0	0	11	9
2041	DINOSEB	0.007 MG/L	0	0	10	8
2042	HEXACHLOROCYCLOPENTADIENE	0.05 MG/L	0	0	11	9
2043	ALDICARB SULFOXIDE	0.004 MG/L	0	0	10	8
2044	ALDICARB SULFONE	0.002 MG/L	0	0	10	8
2046	CARBOFURAN	0.04 MG/L	0	0	10	8
2047	ALDICARB	0.003 MG/L	0	0	10	8
2050	ATRAZINE	0.003 MG/L	0	0	11	9
2051	LASSO	0.002 MG/L	0	0	10	8

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2063	2,3,7,8-TCDD	0.0000003 MG/L	0	0	0	0
2065	HEPTACHLOR	0.0004 MG/L	0	0	10	8
2067	HEPTACHLOR EPOXIDE	0.0002 MG/L	0	0	10	8
2105	2,4-D	0.07 MG/L	0	0	10	8
2110	2,4,5-TP	0.05 MG/L	0	0	10	8
2274	HEXACHLOROBENZENE	0.001 MG/L	0	0	10	8
2306	BENZO(A)PYRENE	0.0002 MG/L	0	0	10	8
2326	PENTACHLOROPHENOL	0.001 MG/L	0	0	10	8
2383	TOTAL POLYCHLORINATED BIPHENYLS (PCB)	0.0005 MG/L	0	0	10	8
2931	1,2-DIBROMO-3-CHLOROPROPANE	0.0002 MG/L	0	0	10	8
2946	ETHYLENE DIBROMIDE	0.00005 MG/L	0	0	11	9
2959	CHLORDANE	0.002 MG/L	0	0	10	8
<b>SOC Totals</b>			<b>0</b>	<b>0</b>	<b>326</b>	<b>19</b>

Volatile Organic Contaminants (VOC)			MCL Violations		Significant Monitoring/Reporting Violations	
SDWIS Code	Contaminant	Maximum Contaminant Level (MCL)	Number of Violations	Number of Water Systems in	Number of Violations	Number of Water Systems in Violation
2257	EPICHLOROHYDRIN	-	0	0	0	0
2265	ACRYLAMIDE	-	0	0	0	0
2298	BIS(2-ETHYLHEXYL) PHTHALATE	-	0	0	0	0
2378	1,2,4-TRICHLOROBENZENE	0.07 MG/L	0	0	32	29
2380	CIS-1,2-DICHLOROETHYLENE	0.07 MG/L	0	0	32	29
2388	AROCLOR 1016	-	0	0	0	0
2390	AROCLOR 1221	-	0	0	0	0
2392	AROCLOR 1232	-	0	0	0	0
2394	AROCLOR 1242	-	0	0	0	0
2396	AROCLOR 1248	-	0	0	0	0
2398	AROCLOR 1254	-	0	0	0	0
2400	AROCLOR 1260	-	0	0	0	0
2955	XYLENES, TOTAL	10 MG/L	0	0	36	33
2964	DICHLOROMETHANE	0.005 MG/L	0	0	32	29
2968	O-DICHLOROBENZENE	0.6 MG/L	0	0	32	29
2969	P-DICHLOROBENZENE	0.075 MG/L	0	0	32	29
2976	VINYL CHLORIDE	0.002 MG/L	0	0	32	29
2977	1,1-DICHLOROETHYLENE	0.007 MG/L	0	0	32	29
2979	TRANS-1,2-DICHLOROETHYLENE	0.1 MG/L	0	0	32	29
2980	1,2-DICHLOROETHANE	0.005 MG/L	0	0	33	30
2981	1,1,1-TRICHLOROETHANE	0.2 MG/L	0	0	32	29

2982	CARBON TETRACHLORIDE	0.005 MG/L	0	0	32	29
2983	1,2-DICHLOROPROPANE	0.005 MG/L	0	0	32	29
2984	TRICHLOROETHYLENE	0.005 MG/L	0	0	32	29
2985	1,1,2-TRICHLOROETHANE	0.005 MG/L	0	0	32	29
2987	TETRACHLOROETHYLENE	0.005 MG/L	0	0	32	29
2989	CHLOROBENZENE	0.1 MG/L	0	0	32	29
2990	BENZENE	0.005 MG/L	0	0	32	29
2991	TOLUENE	1 MG/L	0	0	33	30
2992	ETHYLBENZENE	0.7 MG/L	0	0	31	28
2996	STYRENE	0.1 MG/L	0	0	32	29
<b>VOC Totals</b>			<b>0</b>	<b>0</b>	<b>677</b>	<b>36</b>

Consumer Confidence Report (CCR)			
Violation Type	Violation Name	Number of Violations	Number of Water Systems in Violation
71	CCR REPORT	12	12
<b>CCR Totals</b>		<b>12</b>	<b>12</b>

Disinfection Byproducts Rule( DBP)							
Violation Type	Violation Name	Number of Violations		Number of Water Systems in Violation			
02	MCL, AVERAGE	35		13			
11	MRDL (CHLORINE/CHLORAMINE)	0		0			
11	MRDL, MONITORING (CHL. DIOXIDE)	0		0			
11	MRDL, NON-ACUTE (CHL.DIOXIDE)	0		0			
13	MRDL, ACUTE (CHL.DIOXIDE)	0		0			
27	MONITORING, ROUTINE (DBP), MAJOR	157		123			
46	INADEQUATE DBP PRECURSOR REMOVAL	2		2			
		MCLs		Treatment Technique		Significant Monitoring/Reporting	
		No.of Violations	No. of WS in Violation	Number of Violations	Number of Water Systems in Violation	Number of Violations	Number of Water Systems in Violation
<b>DBP Totals</b>		<b>35</b>	<b>13</b>	<b>2</b>	<b>2</b>	<b>157</b>	<b>123</b>

<b>Lead and Copper Rule( LCR)</b>					
<b>Violation Type</b>	<b>Violation Name</b>	<b>Number of Violations</b>		<b>Number of Water Systems in Violation</b>	
51	INITIAL TAP SAMPLING (LCR)	13		8	
52	FOLLOW-UP OR ROUTINE TAP M/R (LCR)	154		129	
53	WATER QUALITY PARAMETER M/R (LCR)	2		1	
56	INITIAL /FOLLOW-UP ROUTINE SOWT M/R (LCR)	1		1	
57	OCCT/SOWT RECOMMENDATION/STUDY (LCR)	1		1	
58	OCCT/SOWT INSTALL DEMONSTRATION (LCR)	0		0	
65	PUBLIC EDUCATION (LCR)	0		0	
		<b>Treatment Technique</b>		<b>Significant Monitoring/Reporting</b>	
		<b>Number of Violations</b>	<b>Number of Water Systems in Violation</b>	<b>Number of Violations</b>	<b>Number of Water Systems in Violation</b>
<b>LCR Totals</b>		<b>1</b>	<b>1</b>	<b>170</b>	<b>138</b>

<b>Public Notice (PN)</b>					
<b>Violation Type</b>	<b>Violation Name</b>	<b>Number of Violations</b>		<b>Number of Water Systems in Violation</b>	
75	PUBLIC NOTICE RULE LINKED TO VIOLATION	1		1	
<b>PN Totals</b>		<b>1</b>		<b>1</b>	



<b>Water Treatment Rules (Surface Water and Ground Water)</b>					
<b>Violation Type</b>	<b>Violation Name</b>	<b>Number of Violations</b>		<b>Number of Water Systems in Violation</b>	
09	RECORD KEEPING	0		0	
09	RECORD KEEPING FOR INDI. FILTER /FBR	0		0	
29	CPE FAILURE (EI/LT1 SWTR)	0		0	
29	FAILURE TO PRODUCE FILTER ASSESSMENT	0		0	
31	MONITORING, RTN/RPT MAJOR (SWTR-UNFILT)	0		0	
32	MONITORING, SOURCE (LT2), MAJOR	33		16	
34	MONITORING, SOURCE (GWR) MAJOR	3		2	
35	FAILURE SUBMIT IDSE/SUBPT V PLAN (DBP2)	1		1	
36	MONITORING, RTN/RPT MAJOR (SWTR-FILTER)	60		42	
37	FAILURE TO PROFILE/CONSULT	0		0	
38	MONITORING, ROUTINE (IESWTR/LT1), MAJOR	12		6	
41	RES DISINFECT CONCENTRATION (SWTR)	3		3	
42	FAILURE TO FILTER (SWTR)	6		6	
43	SINGLE COMB FLTR EFFLUENT (IESWTR/LT1)	3		3	
44	MONTHLY COMB FLTR EFFLUENT (IESWTR/LT1)	20		7	
47	UNCOVERED STORAGE FACILITY (IESWTR/LT1)	0		0	
		<b>Treatment Technique Violations</b>		<b>Significant Monitoring/Reporting Violations</b>	
		<b>Number of Violations</b>	<b>Number of Water Systems in Violation</b>	<b>Number of Violations</b>	<b>Number of Water Systems in Violation</b>
<b>SWTR Totals</b>		<b>32</b>	<b>17</b>	<b>109</b>	<b>60</b>

Total Coliform Rule (TCR)					
Violation Type	Violation Name	Number of Violations		Number of Water Systems in Violation	
21	MCL (TCR), ACUTE	7		7	
22	MCL (TCR), MONTHLY	61		48	
23	MONITORING (TCR), ROUTINE MAJOR	353		251	
25	MONITORING (TCR), REPEAT MAJOR	10		10	
		MCL		Significant Monitoring/Reporting	
		Number of Violations	Number of Water Systems in Violation	Number of Violations	Number of Water Systems in Violation
<b>TCR Totals</b>		<b>68</b>	<b>49</b>	<b>363</b>	<b>260</b>

All Rules	MCL Violations		Treatment Technique Violations		Monitoring/Reporting Violations		Consumer Notification Violations	
	Number of Violations	Number of Water Systems in Violation	Number of Violations	Number of Water Systems in Violation	Number of Violations	Number of Water Systems in Violation	Number of Violations	Number of Water Systems in Violation
<b>Total for All Rules</b>	<b>189</b>	<b>117</b>	<b>35</b>	<b>20</b>	<b>2324</b>	<b>568</b>	<b>13</b>	<b>13</b>

Water System Number	Water System Name	Violation Category	Analyte Name
CO0150100	A AND B WATER ASSOCIATION INC	MCL	COMBINED RADIUM (-226 & -228)
CO0102100	ALAMOSA CITY OF*	MCL	ARSENIC
CO0160050	ALPINE VILLAGE LLC	MCL	COMBINED RADIUM (-226 & -228)
CO0235119	AMBERWOOD ESTATE LLP	MCL	COLIFORM (TCR)
CO0308020	ANGEL OF SHAVANO CG NO 1	MCL	COLIFORM (TCR)
CO0126117	ANTELOPE HILLS ASSOCIATION	MCL	COMBINED RADIUM (-226 & -228)
CO0123123	ASGARD SUBDIVISION WATER ASSOCIATION	MCL	SELENIUM
CO0262684	BARON MOTEL I-76	MCL	NITRATE
CO0221040	BEAR TRAP RANCH	TT	TURBIDITY
CO0263001	BEECHER ISLAND BATTLE MEMORIAL	MCL	COLIFORM (TCR)
CO0263001	BEECHER ISLAND BATTLE MEMORIAL	TT	FAILURE TO FILTER (SWTR)
CO0112100	BLANCA TOWN OF	MCL	COLIFORM (TCR)
CO0234840	BONDAD HILL SALOON INC	MCL	COLIFORM (TCR)
CO0216001	BROWN PALACE HOTEL	MCL	COLIFORM (TCR)
CO0103010	BYERS WSD	MCL	COLIFORM (TCR)
CO0121080	CAMELOT PROPERTY OWNER'S ASSOCIATION	MCL	COMBINED RADIUM (-226 & -228)
CO0247019	CAMP ID RA HA JE	MCL	NITRATE
CO0221560	CAMP LA FORET	MCL	COLIFORM (TCR)
CO0102600	CHAMISA PROPERTIES LLC*	MCL	ARSENIC
CO0145090	CHERAW TOWN OF	MCL	COMBINED RADIUM (-226 & -228)
CO0225116	CLIMAX MOLYBDENUM CO HENDERSON MILL	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0262177	COLORSTAR	MCL	NITRATE
CO0230235	CONIFER DENTAL MEDICAL GROUP	MCL	COLIFORM (TCR)
CO0160100	CRIPPLE CREEK CITY OF	TT	RES DISINFECT CONCENTRATION (SWTR)
CO0152188	CROSS L ESTATES	MCL	NITRATE
CO0207785	CU MOUNTAIN RESEARCH STATION	TT	FAILURE TO FILTER (SWTR)
CO0117300	DOVE CREEK TOWN OF	MCL	TTHM
CO0235221	DRIPPING SPRINGS BED AND BREAKFAST INN	TT	FAILURE TO FILTER (SWTR)
CO0145120	EAST END WA	MCL	COMBINED RADIUM (-226 & -228)
CO0220717	ELIZABETH PARK AND RECREATION	MCL	COLIFORM (TCR)
CO0145150	EUREKA WC	MCL	COMBINED RADIUM (-226 & -228)
CO0145150	EUREKA WC	MCL	GROSS ALPHA, EXCL. RADON & U
CO0230295	EVERGREEN LUTHERAN CHURCH	MCL	NITRATE
CO0221380	FALCON FOOD STORE AND CG	MCL	COLIFORM (TCR)
CO0145180	FAYETTE WC	MCL	COMBINED RADIUM (-226 & -228)
CO0207139	FLATIRONS BAPTIST CHURCH	MCL	NITRATE
CO0121250	FOREST VIEW ACRES WD	TT	TURBIDITY
CO0208360	FOUR SEASONS RV PARK	MCL	NITRATE
CO0145210	FOWLER TOWN OF	MCL	SELENIUM
CO0115288	FRUITLAND DOMESTIC WC	TT	TURBIDITY
CO0239302	GATEWAY CAFE TRADING POST	MCL	COLIFORM (TCR)
CO0139220	GATEWAY CANYONS WS	MCL	TTHM
CO0263299	GAYTAN WATER SYSTEM	MCL	COLIFORM (TCR)
CO0224310	GILPIN COUNTY PUBLIC LIBRARY	MCL	COLIFORM (TCR)
CO0224310	GILPIN COUNTY PUBLIC LIBRARY	MCL	NITRATE

Water System Number	Water System Name	Violation Category	Analyte Name
CO0134840	GLACIER CLUB	TT	CARBON, TOTAL
CO0107321	GRACE MAR WUA	MCL	COLIFORM (TCR)
CO0150400	GRANADA WA	MCL	COLIFORM (TCR)
CO0218008	GRIFFITH CENTERS FOR CHILDREN	MCL	COLIFORM (TCR)
CO0145240	HANCOCK WC	MCL	COMBINED RADIUM (-226 & -228)
CO0145240	HANCOCK WC	MCL	GROSS ALPHA, EXCL. RADON & U
CO0235506	HARVEST HOUSE RANCH	MCL	COMBINED URANIUM
CO0131600	HASWELL TOWN OF	MCL	NITRATE
CO0130045	HIDDEN VALLEY MUTUAL WC	MCL	COMBINED RADIUM (-226 & -228)
CO0130045	HIDDEN VALLEY MUTUAL WC	MCL	GROSS ALPHA, EXCL. RADON & U
CO0102300	HIGH VALLEY MHP	MCL	ARSENIC
CO0102300	HIGH VALLEY MHP	MCL	TTHM
CO0144010	HILLROSE TOWN OF	MCL	COMBINED URANIUM
CO0145270	HILLSIDE TP	MCL	COMBINED RADIUM (-226 & -228)
CO0145270	HILLSIDE TP	MCL	GROSS ALPHA, EXCL. RADON & U
CO0145330	HOLBROOK CENTER SOFT WATER ASSOCIATION	MCL	COMBINED RADIUM (-226 & -228)
CO0162359	HUDSON TOWN OF	MCL	TTHM
CO0255412	JOYFUL JOURNEY HOT SPRINGS AND SPA	MCL	COLIFORM (TCR)
CO0138738	KIDZ ARK INC	MCL	FLUORIDE
CO0225185	KING MOUNTAIN RANCH	MCL	COLIFORM (TCR)
CO0109011	KIT CARSON TOWN OF	MCL	COMBINED URANIUM
CO0134530	LAKE DURANGO WC	TT	TURBIDITY
CO0251466	LAKE PUEBLO	MCL	COLIFORM (TCR)
CO0204950	LOG PARK WATER COMPANY	MCL	COLIFORM (TCR)
CO0235485	LONGS PEAK CONFERENCE CENTER	MCL	COLIFORM (TCR)
CO0107496	LYONS TOWN OF	MCL	COLIFORM (TCR)
CO0150800	MAY VALLEY WA	MCL	COMBINED RADIUM (-226 & -228)
CO0150800	MAY VALLEY WA	MCL	GROSS ALPHA, EXCL. RADON & U
CO0207504	MEADOW MOUNTAIN WS	TT	TURBIDITY
CO0207506	MEEKER PARK LODGE	TT	FAILURE TO FILTER (SWTR)
CO0138025	MERINO TOWN OF	MCL	COMBINED URANIUM
CO0136600	MODEL WA	MCL	COMBINED RADIUM (-226 & -228)
CO0136600	MODEL WA	MCL	FLUORIDE
CO0153600	MONTE VISTA CITY OF	MCL	COLIFORM (TCR)
CO0144020	MORGAN COUNTY QUALITY WD	MCL	COLIFORM (TCR)
CO0230518	MOUNTAIN AIR RANCH	MCL	COLIFORM (TCR)
CO0230517	MOUNTAIN PHOENIX COMMUNITY SCHOOL	MCL	NITRATE
CO0151350	MOUNTAIN SHADOWS MOBILE ESTATES	MCL	COMBINED RADIUM (-226 & -228)
CO0130100	MOUNTAIN WSD	MCL	COMBINED URANIUM
CO0130100	MOUNTAIN WSD	MCL	GROSS ALPHA, EXCL. RADON & U
CO0108501	MT PRINCETON HOA	MCL	COLIFORM (TCR)
CO0260571	MUELLER SP PICNIC AREA	MCL	COLIFORM (TCR)
CO0335534	NARROWS CG LOWER	MCL	COLIFORM (TCR)
CO0135538	NEWELL WARNOCK WA	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0135538	NEWELL WARNOCK WA	MCL	TTHM

Water System Number	Water System Name	Violation Category	Analyte Name
CO0145630	NORTH HOLBROOK WC	MCL	COMBINED RADIUM (-226 & -228)
CO0157500	NORWOOD WATER COMMISSION	MCL	TTHM
CO0113500	OLNEY SPRINGS TOWN OF	MCL	COLIFORM (TCR)
CO0144025	PAGELS TP	MCL	COMBINED URANIUM
CO0123601	PANORAMIC MESA SUBDIVISION	MCL	TTHM
CO0130115	PARK WC WONDERVIEW	MCL	GROSS ALPHA, EXCL. RADON & U
CO0145540	PATTERSON VALLEY WC	MCL	COMBINED RADIUM (-226 & -228)
CO0145540	PATTERSON VALLEY WC	MCL	GROSS ALPHA, EXCL. RADON & U
CO0259027	PEAK 8 RESTAURANT VISTA HAUS	TT	TURBIDITY
CO0218040	PINE TREE PLAZA WEST	MCL	COLIFORM (TCR)
CO0208720	PONDEROSA LODGE INC	TT	RES DISINFECT CONCENTRATION (SWTR)
CO0102400	PRICE EAST ALAMOSA*	MCL	ARSENIC
CO0149641	PRINCE CREEK HOA	TT	OCCT/SOWT INSTALL DEMONSTRATION (LCR)
CO0260600	QUAKER RIDGE CAMP	MCL	COLIFORM (TCR)
CO0160375	RAINBOW VALLEY WD	TT	TURBIDITY
CO0238425	RAMADA INN LOGAN INN	MCL	NITRATE
CO0118665	RAVENNA MD	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0118665	RAVENNA MD	MCL	TTHM
CO0235673	RED FEATHER SUPER MARKET	MCL	COLIFORM (TCR)
CO0235676	RIVERVIEW CG	TT	RES DISINFECT CONCENTRATION (SWTR)
CO0103081	ROLLING PLAINS ESTATE	MCL	COLIFORM (TCR)
CO0160450	ROSEWOOD HILLS PROPERTY AND HOME OWNERS	MCL	FLUORIDE
CO0347705	ROUND MOUNTAIN CG	MCL	COLIFORM (TCR)
CO0263350	ROUTE 36 GRILLE AND PUB	MCL	COLIFORM (TCR)
CO0151700	RYE TOWN OF	TT	FAILURE TO FILTER (SWTR)
CO0107702	SAN SOUCI MHP	TT	FAILURE TO FILTER (SWTR)
CO0138518	SCHOTT TRAILER COURT	MCL	NITRATE
CO0263705	SEEDORF WS	MCL	COLIFORM (TCR)
CO0107709	SHADY ACRES MHP	MCL	COLIFORM (TCR)
CO0131800	SHERIDAN LAKE WC	MCL	COMBINED URANIUM
CO0251743	SIGNAL MOUNTAIN RANCH PROPERTY OWNERS WC	MCL	COLIFORM (TCR)
CO0251743	SIGNAL MOUNTAIN RANCH PROPERTY OWNERS WC	MCL	COMBINED RADIUM (-226 & -228)
CO0222726	SKYLINE RAZOR RIDGE PARK	MCL	COLIFORM (TCR)
CO0260120	SOLID ROCK CAMP AND RETREAT CENTER	MCL	COLIFORM (TCR)
CO0145690	SOUTH SWINK WC	MCL	COMBINED RADIUM (-226 & -228)
CO0145690	SOUTH SWINK WC	MCL	GROSS ALPHA, EXCL. RADON & U
CO0151750	ST CHARLES MESA WATER DISTRICT	TT	CARBON, TOTAL
CO0207730	ST COLUMBA CHURCH	MCL	NITRATE
CO0254724	STEAMBOAT LAKE WD	MCL	COLIFORM (TCR)
CO0138045	STERLING CITY OF	MCL	COMBINED URANIUM
CO0121800	STRATMOOR HILLS WSD	MCL	COLIFORM (TCR)
CO0145720	SWINK TOWN OF	MCL	COMBINED RADIUM (-226 & -228)
CO0157900	TELLURIDE PINES HOA	TT	TURBIDITY
CO0154743	TIMBERS WSD	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0154743	TIMBERS WSD	MCL	TTHM

Water System Number	Water System Name	Violation Category	Analyte Name
CO0121841	TURKEY CANON RANCH WD	MCL	COMBINED URANIUM
CO0121841	TURKEY CANON RANCH WD	MCL	GROSS ALPHA, EXCL. RADON & U
CO0105700	TWO BUTTES TOWN OF	MCL	COMBINED RADIUM (-226 & -228)
CO0115784	UPPER SURFACE CREEK DOMESTIC WUA	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0223800	VALLEY INVESTMENT PROPERTIES	MCL	NITRATE
CO0145750	VALLEY WC	MCL	COMBINED RADIUM (-226 & -228)
CO0145750	VALLEY WC	MCL	GROSS ALPHA, EXCL. RADON & U
CO0105800	VILAS TOWN OF	MCL	COMBINED RADIUM (-226 & -228)
CO0254810	VISTA VERDE GUEST RANCH	MCL	COLIFORM (TCR)
CO0145780	VROMAN WC	MCL	COMBINED RADIUM (-226 & -228)
CO0258003	WAGON WHEEL CONOCO CAFE	MCL	COLIFORM (TCR)
CO0258003	WAGON WHEEL CONOCO CAFE	MCL	NITRATE
CO0144032	WAYWARD WIND MHP LLC	MCL	COLIFORM (TCR)
CO0144032	WAYWARD WIND MHP LLC	MCL	COMBINED URANIUM
CO0135290	WEST FORT COLLINS WATER DISTRICT	MCL	COLIFORM (TCR)
CO0118085	WESTCREEK LAKES WATER DISTRICT	MCL	FLUORIDE
CO0160800	WHISPERING PINES MHP	MCL	COMBINED RADIUM (-226 & -228)
CO0254185	XCEL ENERGY HAYDEN STATION	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0254185	XCEL ENERGY HAYDEN STATION	MCL	TTHM
CO0135883	YMCA ROCKIES WIND RIVER	MCL	TOTAL HALOACETIC ACIDS (HAA5)
CO0222990	YOGI BEAR JELLYSTONE PARK CAMP	MCL	COLIFORM (TCR)
CO0208960	YOUNG LIFE TRAIL WEST LODGE	MCL	COLIFORM (TCR)

*\*The City of Alamosa installed treatment for arsenic removal in 2008; the violations were not resolved until 2009 when sampling had established that the treatment resulted in arsenic contaminant levels reliably and consistently below the MCL. This system is included in the 2009 violation records, however, data collected in 2009 show that this system was not serving water with arsenic levels exceeding the standard in 2009.*