# Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td>5</td>
</tr>
<tr>
<td>The Drinking Water Program: An Overview</td>
<td>5</td>
</tr>
<tr>
<td>Annual State PWS Reports</td>
<td>6</td>
</tr>
<tr>
<td>Public Water Systems</td>
<td>6</td>
</tr>
<tr>
<td>Maximum Contaminant Level</td>
<td>7</td>
</tr>
<tr>
<td>Treatment Techniques</td>
<td>8</td>
</tr>
<tr>
<td>Variances and Exemptions</td>
<td>8</td>
</tr>
<tr>
<td>Monitoring</td>
<td>9</td>
</tr>
<tr>
<td>Significant Monitoring Violations</td>
<td>9</td>
</tr>
<tr>
<td>Significant Consumer Notification Violations</td>
<td>9</td>
</tr>
<tr>
<td>Additional Monitoring in New Jersey</td>
<td>10</td>
</tr>
<tr>
<td>Conclusions</td>
<td>11</td>
</tr>
<tr>
<td>Microbiological</td>
<td>11</td>
</tr>
<tr>
<td>Total Coliform Rule</td>
<td>11</td>
</tr>
<tr>
<td>Surface Water Treatment Rule</td>
<td>13</td>
</tr>
<tr>
<td>Interim Enhanced Water Treatment Rule</td>
<td>13</td>
</tr>
<tr>
<td>Organic Chemicals</td>
<td>13</td>
</tr>
<tr>
<td>Volatile Organic Chemicals (VOC) Rule</td>
<td>13</td>
</tr>
<tr>
<td>Synthetic Organic Chemicals (SOC) Rule</td>
<td>14</td>
</tr>
<tr>
<td>Total Trihalomethanes and</td>
<td>14</td>
</tr>
<tr>
<td>Total Haloacetic Acids</td>
<td></td>
</tr>
<tr>
<td>Inorganic Chemicals (IOC)</td>
<td>15</td>
</tr>
<tr>
<td>IOC Rule</td>
<td>15</td>
</tr>
<tr>
<td>Lead and Copper Rule</td>
<td>16</td>
</tr>
<tr>
<td>Radiological Rule</td>
<td>16</td>
</tr>
<tr>
<td>Consumer Notification Violations</td>
<td>17</td>
</tr>
<tr>
<td>Summary</td>
<td>17</td>
</tr>
</tbody>
</table>
Tables

Table 1  Public Water Systems In New Jersey  7
Table 2  Volatile Organic and Synthetic Organic Chemicals Regulated Differently as Primary Contaminants by NJDEP and USEPA  7
Table 3  Volatile Organic Chemicals Regulated as Primary Contaminants by NJDEP that are not Federally Regulated  8
Table 4  Total Coliform Rule MCL Violations  12
Table 5  Total Coliform Rule Monitoring/Reporting Violations  12
Table 6  Volatile Organic Monitoring Compound Monitoring/Reporting Violations  14
Table 7  Nitrate MCL and Monitoring/Reporting Violations  15
Table 8  Violations Table  18
Table 9  Additional Monitoring in New Jersey  31

Appendices

Appendix A  Safe Drinking Water Act Requirements  40
Appendix B  Community Water System 2002 MCL and Treatment Technique Violations  41
Appendix C  Community Water System 2002 Action Level Violations  44
Appendix D  Noncommunity Water System 2002 MCL Violations  46
Appendix E  Noncommunity Water System 2002 Action Level Violations  53
Appendix F  2002 Consumer Confidence Report Violations  59
Appendix G  Violations Related to Additional Monitoring in New Jersey  60
Introduction

This is New Jersey’s seventh annual report prepared to fulfill one of the statutory requirements of the 1996 Amendments to the Safe Drinking Water Act. The Safe Drinking Water Act requires States to prepare an annual report on violations of the national primary drinking water regulations by public water systems in the State. The first report covered the period January 1, 1996, through December 31, 1996. Each subsequent report covered the following calendar year. This seventh report covers the period January 1, 2002, to December 31, 2002. This full report will be made available to the public and allows all citizens in the State of New Jersey to have greater access to drinking water quality information for the State in a nationally standardized format. The information in this report is for violations of (I) maximum contaminant levels, (II) treatment requirements, (III) variances and exemptions, and (IV) monitoring requirements determined to be significant by the Administrator (of USEPA) after consultation with the States. Each state is required to publish and distribute a summary report that indicates where this full report is available for review. The statutory language is presented in Appendix A (page 40).

In New Jersey, copies of this full report for the period January 1, 2002, through December 31, 2002, will be sent to the state library for distribution through its system, and to the county and local health officers. In addition, this report may be viewed on the internet at www.state.nj.us/dep/watersupply-violations2002.pdf

The Drinking Water Program: An Overview

USEPA established the Public Water System Supervision Program under the authority of the 1974 Safe Drinking Water Act. Under the Safe Drinking Water Act and the 1986 Amendments, USEPA sets national limits on contaminant levels in drinking water to ensure that drinking water is safe for human consumption. These limits are known as Maximum Contaminant Levels (MCLs). For some regulations, USEPA establishes treatment techniques in lieu of an MCL to control unacceptable levels of contaminants in water. USEPA also regulates how often public water systems (PWSs) monitor their water for contaminants and report the monitoring results to the States or USEPA. Generally, the larger the population served by a water system, the more frequent the monitoring/reporting (M/R) requirements. In addition, USEPA requires PWSs to monitor for unregulated contaminants to provide data for future regulatory development. Finally, USEPA requires PWSs to notify the public when they have violated these regulations. The 1996 Amendments to the Safe Drinking Water Act 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 Safe Drinking Water Act allows States and Territories to seek USEPA approval to administer their own Public Water Supply Supervision Programs. The authority to run a Public Water Supply Supervision Program is called primacy. To receive primacy, States must meet certain requirements laid out in the Safe Drinking Water Act and the
regulations, including the adoption of drinking water regulations that are at least as stringent as the Federal regulations and a demonstration that they can enforce the program requirements. Of the 57 States and Territories, all but Wyoming and the District of Columbia have primacy. The USEPA Regional Offices administer the Public Water Supply Supervision Programs within these two jurisdictions.

The Bureau of Safe Drinking Water of the New Jersey Department of Environmental Protection (NJDEP) has principal responsibility for the programs and activities under the Federal Safe Drinking Water Act and the New Jersey Safe Drinking Water Act to assure safe drinking water for both the citizens of New Jersey and visitors.

Annual State PWS Reports

Primacy States submit data to the Safe Drinking Water Information System (SDWIS/FED) on a quarterly basis. Data include PWS inventory statistics, the incidence of Maximum Contaminant Level, Major Monitoring, and Treatment Technique violations, and the enforcement actions taken against violators. The annual compliance summary report that States are required to submit to USEPA 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. States are also required to make available a full report of all violations indicating the names of the systems with violations. The USEPA Regional Offices report the information for Wyoming, the District of Columbia, and all Indian Lands. Regional offices also report Federal enforcement actions taken. USEPA stores this data in an automated database called the Safe Drinking Water Information System (SDWIS). These reports are based largely on data retrieved from the federal version of the SDWIS/FED.

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. PWSs can be community (such as towns), nontransient noncommunity (such as schools or factories), or transient noncommunity systems (such as rest stops or parks). For this report when the acronym “PWS” is used, it means systems of all types unless specified in greater detail.

At the end of 2002, New Jersey listed 4,138 public water systems in its inventory. These included 604 community water systems, 884 nontransient noncommunity water systems and 2650 transient noncommunity water systems. The number of systems constantly changes due to mergers, opening and closing of businesses, hookups with community water systems or changes in use that results in fewer than 25 people being served.

The following table shows the changes in number of public water systems since 1996:
Table 1: Public Water Systems in New Jersey

<table>
<thead>
<tr>
<th>Year</th>
<th>Community Water Systems</th>
<th>Nontransient Noncommunity Water Systems</th>
<th>Transient Noncommunity Water Systems</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>604</td>
<td>884</td>
<td>2650</td>
<td>4138</td>
</tr>
<tr>
<td>2001</td>
<td>606</td>
<td>891</td>
<td>2689</td>
<td>4186</td>
</tr>
<tr>
<td>2000</td>
<td>606</td>
<td>936</td>
<td>2707</td>
<td>4249</td>
</tr>
<tr>
<td>1999</td>
<td>616</td>
<td>968</td>
<td>2839</td>
<td>4423</td>
</tr>
<tr>
<td>1998</td>
<td>615</td>
<td>962</td>
<td>2887</td>
<td>4464</td>
</tr>
<tr>
<td>1997</td>
<td>612</td>
<td>1034</td>
<td>3066</td>
<td>4712</td>
</tr>
<tr>
<td>1996</td>
<td>612</td>
<td>1038</td>
<td>3090</td>
<td>4740</td>
</tr>
</tbody>
</table>

Maximum Contaminant Level

Under the Safe Drinking Water Act, USEPA 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).

New Jersey laws also outline specific procedures for setting drinking water standards in the State based on risk-based goals. New Jersey drinking water standards are required to be equal to or more stringent than federal standards. As a result of applying this New Jersey approach to drinking water contaminants, there are twelve regulated volatile organic compounds and one regulated synthetic organic compound with New Jersey MCLs that are more stringent than the federal MCLs. These are listed in Table 2, below:

Table 2: Volatile Organic and Synthetic Organic Compounds Regulated Differently as Primary Contaminants by NJDEP and USEPA

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>New Jersey MCL (ug/l)</th>
<th>USEPA MCL (ug/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Carbon Tetrachloride</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Chlordane</td>
<td>0.5</td>
<td>2</td>
</tr>
<tr>
<td>1,2-Dichloroethane</td>
<td>2</td>
<td>5</td>
</tr>
<tr>
<td>1,2-Dichloroethylene</td>
<td>2</td>
<td>7</td>
</tr>
<tr>
<td>Methylene Chloride</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Monochlorobenzene</td>
<td>50</td>
<td>100</td>
</tr>
<tr>
<td>Tetrachloroethylene</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>1,2,4-Trichlorobenzene</td>
<td>9</td>
<td>70</td>
</tr>
<tr>
<td>1,1,1-Trichloroethane</td>
<td>30</td>
<td>200</td>
</tr>
<tr>
<td>1,1,2-Trichloroethane</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Trichloroethylene</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Xylenes</td>
<td>1,000</td>
<td>10,000</td>
</tr>
</tbody>
</table>

In addition, there are five volatile organic compounds regulated as primary contaminants.
by New Jersey that are not federally regulated. These contaminants are listed in Table 3. The remaining nine USEPA regulated volatile organic compounds share the same MCL, federal or state.

Table 3: Volatile Organic Compounds Regulated as Primary Contaminants by NJDEP that are not Federally Regulated

<table>
<thead>
<tr>
<th>Contaminant</th>
<th>New Jersey MCL (ug/l)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Meta-Dichlorobenzene</td>
<td>600</td>
</tr>
<tr>
<td>1,1-Dichloroethane</td>
<td>50</td>
</tr>
<tr>
<td>Methyl tertiary Butyl Ether</td>
<td>70</td>
</tr>
<tr>
<td>Napthalene</td>
<td>300</td>
</tr>
<tr>
<td>1,1,2,2-Tetrachloroethane</td>
<td>1</td>
</tr>
</tbody>
</table>

All regulated contaminants and their respective federal and state MCLs are listed in Table 8 on page 18 of this report.

Treatment Techniques

For some contaminants, USEPA establishes treatment techniques in lieu of an MCL to control unacceptable levels of certain contaminants. For example, treatment techniques have been established for viruses, bacteria, and turbidity.

Variance and Exemptions

Variances and exemptions to specific requirements under the Safe Drinking Water Act Amendments of 1996 may be granted under certain circumstances. If, due to the characteristics of the raw water sources reasonably available, a PWS cannot meet the MCL, a primacy State can grant the PWS a variance from the applicable primary drinking water regulation on the condition that the system install the best available technology, treatment techniques, or other means which the Administrator finds are available (taking costs into account). The state must find that the variance will not result in an unreasonable risk to health, and shall prescribe, at the time the variance is granted, a schedule (including increments of progress) in accordance with which the PWS must come into compliance with the MCL. Small systems (serving 3,300 or fewer persons; or 10,000 or fewer persons with the Administrator’s approval) may 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 must, within 3 years, install and operate USEPA approved small system variance technology. The variance must ensure adequate protection of human health, and the variance shall be reviewed not less than every 5 years to determine whether the system remains eligible for the variance. A primacy State may by exemption 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, the system was in operation on the effective date of the MCL or treatment technique requirement) or if not in operation by that date, only if no reasonable
alternative source of drinking water is available to such new systems, management or restructuring changes cannot reasonably be made that will result in compliance with the Safe Drinking Water Act or improvement of water quality, and the exemption will not 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 3 years after the otherwise applicable compliance date.

The Bureau of Safe Drinking Water has never issued any variances or exemptions.

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, then a monitoring violation occurs. A monitoring violation also includes failure to report test results correctly to the primacy agent.

Significant Monitoring Violations

For this report, significant monitoring violations are defined as any major monitoring violation that has occurred during the specified report interval. Most monitoring violations occur when no samples are taken or no results are reported during a compliance period. New Jersey's public water systems are required to monitor drinking water quality according to federal regulations (40 CFR Part 141) and New Jersey regulations (N.J.A.C. 7:10-1 et seq.).

Test results are reported by public water systems to the Bureau of Safe Drinking Water for compliance determination with reporting requirements and the drinking water standards. Maximum contaminant levels, or MCLs, are drinking water standards developed by either USEPA or NJDEP that are protective of health from ingested drinking water. Major categories of contaminants monitored in public community drinking water supplies are microbiological, inorganic chemicals including lead and copper, volatile organic chemicals, pesticides, radionuclides, turbidity and disinfection by-products, including total trihalomethanes and total haloacetic acids.

It is important to note that monitoring and reporting violations are generated for this report before all the violations have been verified. New Jersey's experience is that the actual number of verified monitoring and reporting violations will be significantly less than shown in the charts accompanying this report. Many of the violations will be deleted because subsequent information received will confirm that the water system was deactivated during the period the violations occurred or the sampling was indeed performed and the data is resubmitted.

Significant Consumer Notification Violations

For this report, Significant Consumer Notification Violations are modeled after the federal Consumer Confidence Report rule, under the provisions of the 1996 Amendments
to the federal Safe Drinking Water Act, that requires all community water systems to submit an annual report to their customers on the quality of their drinking water by July 1 of each year covering the water quality of the previous calendar year.

**Additional Monitoring in New Jersey**

**Radiological**

Radiological sampling of wells that draw water from Southern New Jersey's Cohansey aquifer has shown elevated levels of naturally occurring radioactivity. Studies were performed and it was determined that a significant portion of the gross alpha particle activity detected was a result of the presence of radium 224, a short lived radionuclide with a half-life of 3.7 days. There is no federal or state standard for radium 224. Only community water systems are currently required to sample for gross alpha particle activity.

With respect to radiological contamination, NJDEP has taken several steps to protect public health. The first step is requiring the analysis of drinking water samples for gross alpha particle activity within 48 hours instead of up to a year after collection. If the samples are analyzed quickly, increased gross alpha particle activity is detected that would not normally be detected because of the short half life of radium 224. The second is that the New Jersey Drinking Water Quality Institute (DWQI) was convened to address the issue of MCL setting for radium 224. The DWQI determined that analyzing samples within 48 hours for gross alpha is protective of public health and that a separate MCL for radium 224 was not needed. The third step is that in 2000, NJDEP began a program to sample all nontransient noncommunity water systems in the State, at State expense. Sampling of nontransient noncommunity systems was completed in 2002. If gross alpha particle activity was detected at a concentration greater than 5 pCi/l, the sample was analyzed for radium 226/228. If gross alpha particle activity was detected at a concentration greater than 15 pCi/l, a second sample was collected to confirm the elevated gross alpha particle activity. If elevated gross alpha particle activity (greater than 15 pCi/l) was confirmed or if combined radium 226/228 exceeded 5 pCi/l, an MCL letter was issued and the nontransient noncommunity system was advised they have one year to come into compliance.

**Volatile Organic Chemicals and Synthetic Organic Chemicals**

Transient noncommunity water systems are not required by federal law to sample for volatile organic chemicals or synthetic organic chemicals. However, a number of transient noncommunity water systems in New Jersey submit results of volatile organic chemical or synthetic organic chemical sampling to NJDEP's Bureau of Safe Drinking Water. These systems generally fall into one of two categories: either they have initiated sampling on their own or, more commonly, the transient noncommunity system was sampled as part of an investigation into a nearby contamination case. In either case, the results are kept in the same database as the results for other public water systems and if an MCL is exceeded, an MCL violation letter is issued and the transient noncommunity
Conclusions

Individual water system MCL and treatment technique violation data for community and noncommunity water systems are presented in Appendices B (page 41) and D (page 46), respectively. Appendix C (page 44) lists community water system action level violations of the Lead and Copper Rule; nontransient noncommunity Lead and Copper Rule violations are presented in Appendix E (page 53).

The most notable item in this report is that the number of monitoring and reporting violations for coliform has declined or held steady for the past several years as seen in Table 4 on page 12. The improvement continues to come from both the continued consolidations of small community systems and increased contact with noncommunity systems as a result of changes initiated by NJDEP’s Water Compliance and Enforcement Element in 1999. Those changes included transferring responsibility for the inspection of all State and federal noncommunity water systems from County agencies to NJDEP’s Water Compliance and Enforcement Element, and requiring County agencies to pursue penalties for all violations after July 1, 1999 that cause a system to be, or continue to be, in "Significant Noncompliance." In addition, the implementation of a "zero tolerance" enforcement policy for violations on or after July 1, 2000 for noncommunity water systems is having an effect as CEHA agencies review and evaluate violations on a quarterly basis and take penalty actions for confirmed violations. In addition, the Bureau of Safe Drinking Water has formulated a capacity development strategy to assist public water systems with a history of significant non-compliance to achieve compliance, and has contracted with New Jersey Water Association to provide technical assistance to systems with MCL or M/R violations.

Following is a summary of 2002 violation data based on each contaminant group.

Microbiological

Total Coliform Rule:

Microbiological quality as measured by the total coliform test continues to yield good results for the monitoring performed in 2002. Between 2001 and 2002 there was a decrease in the number of acute violations and number of total coliform monthly violations. In all, 3.3% (139 out of 4138) public water systems (PWS) had a Total Coliform Rule MCL violation in 2002. This compares with 2001 when 4.7% (198 systems out of 4186 total systems) had total coliform rule MCL Violations.

The following table shows acute and monthly Total Coliform Rule MCL violations since 1996:
Table 4: Total Coliform Rule MCL Violations for all Public Water Systems

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Total Coliform Rule MCL Violations</th>
<th>Number of Systems with Total Coliform Rule MCL Violations</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute</td>
<td>Monthly</td>
</tr>
<tr>
<td>2002</td>
<td>22</td>
<td>167</td>
</tr>
<tr>
<td>2001</td>
<td>41</td>
<td>229</td>
</tr>
<tr>
<td>2000</td>
<td>31</td>
<td>264</td>
</tr>
<tr>
<td>1999</td>
<td>44</td>
<td>181</td>
</tr>
<tr>
<td>1998</td>
<td>25</td>
<td>113</td>
</tr>
<tr>
<td>1997</td>
<td>15</td>
<td>122</td>
</tr>
<tr>
<td>1996</td>
<td>38</td>
<td>134</td>
</tr>
</tbody>
</table>

A total of 21,828 total coliform test result summary reports were sent to NJDEP in 2002. These test result summary reports summarize the results of between one and several hundred microbiological samples taken from each public water system either monthly or quarterly. Each time there was an acute MCL violation there was also a monthly coliform violation. Of the total, there were only 189 MCL violations. Therefore, 99% of the time that public water systems sampled, the results were within standards.

The following table shows the improving trend in monitoring/reporting violations for the Total Coliform Rule since 1996.

Table 5: Total Coliform Rule Monitoring/Reporting Violations for all Public Water Systems

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Total Coliform Rule Monitoring/Reporting Violations</th>
<th>Number of Systems with Total Coliform Rule Monitoring/Reporting Violations</th>
<th>Percentage of Systems that Missed Sampling at Least Once During the Year</th>
<th>Total Number of Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>645</td>
<td>464</td>
<td>11%</td>
<td>4138</td>
</tr>
<tr>
<td>2001</td>
<td>692</td>
<td>477</td>
<td>11%</td>
<td>4186</td>
</tr>
<tr>
<td>2000</td>
<td>1070</td>
<td>667</td>
<td>16%</td>
<td>4249</td>
</tr>
<tr>
<td>1999</td>
<td>1468</td>
<td>859</td>
<td>19%</td>
<td>4423</td>
</tr>
<tr>
<td>1998</td>
<td>1736</td>
<td>972</td>
<td>22%</td>
<td>4464</td>
</tr>
<tr>
<td>1997</td>
<td>2195</td>
<td>1216</td>
<td>26%</td>
<td>4712</td>
</tr>
<tr>
<td>1996</td>
<td>2805</td>
<td>1384</td>
<td>29%</td>
<td>4740</td>
</tr>
</tbody>
</table>

As can be seen in the table above, monitoring compliance for microbial parameters was essentially the same as in 2001. Out of 4,138 PWS, 464 PWS (11%) missed sampling at least once during 2002, with a total of 645 total coliform test result summary reports missed.
Surface Water Treatment Rule (SWTR):

Compliance with the Surface Water Treatment Rule is no longer applicable for filtered systems serving a population greater than or equal to 10,000 after January 1, 2002. (See IESWTR below.) The only unfiltered surface water treatment plant in New Jersey signed a consent agreement to build a new treatment plant that was scheduled to be constructed by November 20, 2003. However, a severe storm event in August 2000 ruptured the pipeline between the surface water source and the water distribution system and unforeseen additional regulatory requirements have resulted in a time extension being granted until November 1, 2004.

Interim Enhanced Surface Water Treatment Rule (IESWTR):

Sampling under this new rule began in January 2002. There were six treatment technique violations for 2002. All six violations were for a brief duration after the new treatment technique value for turbidity came into effect on January 1, 2002.

Organic Chemicals

Volatile Organic Compounds (VOC) Rule:

There was an increase in the number of MCL violations for VOCs in 2002. Of the community water systems and nontransient noncommunity water systems that monitored for VOCs in 2002, 22 MCL violations were issued at 20 systems for volatile organic compounds. Nine community and 11 nontransient non-community systems received those MCL violations. In 2001 only 15 MCL violations were issued at 13 systems for VOCs. One community and 12 nontransient noncommunity received those MCL violations in 2001.

There was a slight increase in the VOC monitoring/reporting violations in 2002. Table 6 shows the trend since 1996. A total of 131 community and nontransient noncommunity water systems (57 community and 74 noncommunity) had at least one monitoring violation. The sum of the monitoring/reporting violations for VOCs in Table 8 (page 18) looks large (8,242) because each missed sample gets counted as 26 separate monitoring/reporting (M/R) violations for each of the 26 regulated compounds measured in the method and some systems have many entry points (treatment plants) that need to be monitored. Those water systems that did not provide a sufficient number of quarterly follow-up samples as a result of a detection of a VOC in the water system in 2002 were issued monitoring violations. For this 2002 report, the number of violations also includes those systems that did not perform sampling in the correct year of the three year compliance period (2002-2004).
Table 6: Volatile Organic Compound Monitoring/Reporting Violations

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Volatile Organic Compound Monitoring/Reporting Violations</th>
<th>Number of Systems with Volatile Organic Compound Monitoring/Report Violations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>8242</td>
<td>131</td>
</tr>
<tr>
<td>2001</td>
<td>7098</td>
<td>116</td>
</tr>
<tr>
<td>2000</td>
<td>10,972</td>
<td>159</td>
</tr>
<tr>
<td>1999</td>
<td>13,676</td>
<td>208</td>
</tr>
<tr>
<td>1998</td>
<td>12,740</td>
<td>181</td>
</tr>
<tr>
<td>1997</td>
<td>16,926</td>
<td>229</td>
</tr>
<tr>
<td>1996</td>
<td>15,756</td>
<td>176</td>
</tr>
</tbody>
</table>

As discussed earlier in this report, NJDEP tracks transient noncommunity systems that submit data and exceed an MCL for a volatile organic compound. One transient noncommunity water system had an MCL violation in 2002. This is reported in Table 9 (page 31) and Appendix G (page 60).

**Synthetic Organic Compounds (SOCs) Rule:**

This group of compounds, mostly pesticides, benefits from the extensive studies and the monitoring and waiver program that has been developed. Every three years, community and nontransient noncommunity water systems are required to either sample for certain SOCs or obtain a waiver from sampling. The majority of affected public water systems in New Jersey obtain waivers from sampling. As part of this waiver process, every three years the Bureau of Safe Drinking Water collects samples from a select number of wells that serve community and nontransient noncommunity water systems and nearly all surface water bodies that supply water to community and nontransient noncommunity water systems. Surface water samples are taken under both storm conditions and base flow conditions. Raw water samples (before any treatment) are taken from ground water systems when possible. If significant detections are found in the raw water samples, a second round is collected that includes a raw water and finished water (point of entry) sample. In 2002, NJDEP developed the plan to collect screening samples from selected groundwater and surface water locations throughout the State to determine the levels of pesticides in the most vulnerable areas of the State for the 2002-2004 Compliance Period. Data collection began in 2003. These data will be used to issue SOC waivers for this period.

**Total Trihalomethanes and Total Haloacetic Acids:**

One community water system had an MCL violation for total trihalomethanes in 2002. A second system was given two years to comply with the MCL of $80\mu g/l$, and extensive construction is underway at that system and is expected to be completed in December 2003. This second system is in compliance with $100\mu g/l$ for 2002. There were no MCL violations for total haloacetic acids.
Monitoring compliance for total trihalomethanes remains very high; there were only 7 monitoring/reporting (M/R) violations for trihalomethanes at 7 community water systems in 2002, while in 2001, there were 8 monitoring/reporting (M/R) violations for trihalomethanes at 7 community water systems. Under sampling requirements that began in 2002, there were 4 monitoring/reporting (M/R) violations for haloacetic acids at 2 community water systems in 2002.

Inorganic Chemicals (IOC)

IOC and Nitrate:

In 2002, there were seven MCL violations at five community or nontransient noncommunity water systems for inorganic chemicals, excluding nitrate. There is a slight decrease in number of violations from 2001. There were three MCL violations for mercury, two for thallium and two for antimony in 2002. There were four MCL violations for mercury, two for cadmium and one for fluoride in 2001.

There is a slight increase in nitrate MCL violations in 2002, and continues to be a problem primarily of noncommunity water systems. There were three community water system in 2002 with nitrate MCL violations. In 2002, there were 30 nitrate MCL violations at 18 noncommunity water systems. In 2001 there was one community water system with a nitrate MCL violation, while there were 27 MCL violations at 17 noncommunity water systems.

The following table shows nitrate MCL violations and monitoring/reporting violations since 1996:

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Nitrate MCL Violations</th>
<th>Number of Systems with Nitrate MCL Violations</th>
<th>Number of Nitrate Monitoring/Reporting Violations</th>
<th>Number of Systems with Nitrate Monitoring/Reporting Violations</th>
</tr>
</thead>
<tbody>
<tr>
<td>2002</td>
<td>33</td>
<td>21</td>
<td>438</td>
<td>323</td>
</tr>
<tr>
<td>2001</td>
<td>29</td>
<td>18</td>
<td>403</td>
<td>290</td>
</tr>
<tr>
<td>2000</td>
<td>24</td>
<td>19</td>
<td>538</td>
<td>403</td>
</tr>
<tr>
<td>1999</td>
<td>29</td>
<td>26</td>
<td>642</td>
<td>540</td>
</tr>
<tr>
<td>1998</td>
<td>17</td>
<td>17</td>
<td>696</td>
<td>596</td>
</tr>
<tr>
<td>1997</td>
<td>24</td>
<td>19</td>
<td>1258</td>
<td>1035</td>
</tr>
<tr>
<td>1996</td>
<td>41</td>
<td>28</td>
<td>1594</td>
<td>1269</td>
</tr>
</tbody>
</table>

As seen in the above table, the monitoring of noncommunity water systems for nitrate has improved since 1996 even though the number is slightly larger in 2002.
Similar to improvements in the number of Total Coliform Rule monitoring and reporting violations, we believe this improvement comes from both the continued consolidation of small community systems and increased contact with noncommunity systems as a result of changes initiated by NJDEP's Water Compliance and Enforcement Element in 1999. Those changes included transferring responsibility for the inspection of all State and federal noncommunity water systems from County agencies to NJDEP's Water Compliance and Enforcement Element, and requiring County agencies to pursue penalties for all violations after July 1, 1999 that cause a system to be, or continue to be, in "Significant Noncompliance." In addition, the implementation of a "zero tolerance" enforcement policy for violations on or after July 1, 2000 for noncommunity water systems is beginning to have an effect as CEHA agencies review and evaluate violations on a quarterly basis and take penalty actions for confirmed violations.

Asbestos monitoring was required for some community and noncommunity systems. Results were excellent with no MCL violations. Some systems had to apply for waivers and some were granted waivers till 2010 based on past results and waiver information.

**Lead and Copper Rule:**

All large systems have completed their initial monitoring and treatment optimization studies.

The number of Action Level (AL) violations for 2002 is smaller for community water systems than the number in 2001. In 2002, there were 31 community water systems with 38 lead or copper action level violations, while in 2001 there were 36 community water systems with 46 lead or copper action level violations. In 2002 there were 107 nontransient noncommunity water systems with 147 lead or copper Action Level violations, while in 2001 there were 104 nontransient noncommunity water systems with 138 lead or copper action level violations.

There was a slight increase in the number of monitoring/reporting violations for the Lead and Copper Rule in 2002. In 2002 there were 6 monitoring/reporting violations at 3 public water systems, while in 2001 there were 4 monitoring/reporting violations at 2 community and nontransient noncommunity water systems.

**Radiological Rule:**

During 2002, no community water systems were in new violation of the gross alpha standard or the radium 226/228 standard. This was the case in 2001 also.

No monitoring/reporting violations were incurred for gross alpha and radium 226/228 testing for 2002.
As noted earlier, in 2000 NJDEP began testing nontransient noncommunity water systems for gross alpha activity using the accelerated testing protocol. As of the middle of 2002, all nontransient noncommunity water systems had been tested. For 2002, there were a total of 6 exceedances (both gross alpha and radium 226/228) at 6 nontransient noncommunity water systems. This is reported in Table 9 (page 31) and Appendix G (page 60).

**Consumer Notification Violations:**

One provision of the 1996 amendments to the Federal Safe Drinking Water act requires all community water systems to produce and distribute a Consumer Confidence Report to all customers of the community water systems and the NJDEP. This Consumer Confidence Report contains summary information about each water system including test results from the previous calendar year, along with "plain" language about drinking water in general, any applicable MCL Violation or Action Level exceedance data, and sources of drinking water. The first reports were sent to customers by October 19, 1999, containing primarily data from calendar year 1998; all subsequent reports are sent to customers by July 1 each year containing previous year test results. Four community water systems received consumer notification violations for the failure to submit a 2002 Consumer Confidence Report (2001 drinking water test results). This information has been incorporated into Table 8 (page 18). Appendix F (page 59) shows these 4 systems. In 2001, two community water systems received consumer notification violations for the failure to submit a Consumer Confidence Report.

**Summary:**

The quality of New Jersey's public drinking water continues to be excellent. Overall, the Bureau of Safe Drinking Water, with support from NJDEP's Water Compliance and Enforcement Element and county health agencies, continues to make progress in addressing MCL, treatment technique and monitoring violations. The Bureau of Safe Drinking Water's capacity development strategy is targeted to assist public water systems with a history of significant non-compliance to achieve compliance, and we expect continued improvements over the next several years, especially with those public water systems that have been in significant non-compliance.
### Table 8
Violations Table
(with SDWIS Codes)

<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL* (mg/l)</th>
<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><em>Organic Contaminants</em></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>2981</td>
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<tr>
<td>2977</td>
<td>1,1-Dichloroethylene</td>
<td>0.007</td>
<td>0.002</td>
<td>0</td>
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<tr>
<td>2985</td>
<td>1,1,2-Trichloroethane</td>
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<td>0.003</td>
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<tr>
<td>2378</td>
<td>1,2,4-Trichlorobenzene</td>
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<td>0.009</td>
<td>0</td>
</tr>
<tr>
<td>2931</td>
<td>1,2-Dibromo-3-chloropropane (DBCP)</td>
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<td></td>
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<tr>
<td>2980</td>
<td>1,2-Dichloroethane</td>
<td>0.005</td>
<td>0.002</td>
<td>0</td>
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<tr>
<td>2983</td>
<td>1,2-Dichloropropane</td>
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<td>0.005</td>
<td>0</td>
</tr>
<tr>
<td>2063</td>
<td>2,3,7,8-TCDD (Dioxin)</td>
<td>3x10^{-8}</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
<tr>
<td>2110</td>
<td>2,4,5-TP</td>
<td>0.05</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
<tr>
<td>2105</td>
<td>2,4-D</td>
<td>0.07</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2265</td>
<td>Acrylamide</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Values are in milligrams per liter (mg/l) unless otherwise specified
<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL* (mg/l)</th>
<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>2051 Alachlor</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>2050 Atrazine</td>
<td>0.003</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>2990 Benzene</td>
<td>0.005</td>
<td>0.001</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>2306 Benzo[a]pyrene</td>
<td>0.002</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2046 Carbofuran</td>
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<td>0</td>
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<td>2982 Carbon tetrachloride</td>
<td>0.005</td>
<td>0.002</td>
<td>2</td>
<td>2</td>
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<tr>
<td>2959 Chlordane</td>
<td>0.002</td>
<td>0.0005</td>
<td>317</td>
<td>131</td>
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<tr>
<td>2380 Cis-1,2-Dichloroethylene</td>
<td>0.07</td>
<td>0</td>
<td>0</td>
<td>317</td>
</tr>
<tr>
<td>2031 Dalapon</td>
<td>0.2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2035 Di(2-ethylhexyl)adipate</td>
<td>0.4</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2039 Di(2-ethylhexyl)phthalate</td>
<td>0.006</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2964 Dichloromethane (methylene chloride)</td>
<td>0.005</td>
<td>0.003</td>
<td>2</td>
<td>2</td>
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<tr>
<td>2041 Dinoseb</td>
<td>0.007</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>

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<thead>
<tr>
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<th>Treatment Techniques</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
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<td>Statewide waiver</td>
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<td>2033 Endothall</td>
<td>0.1</td>
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<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
<tr>
<td>2005 Endrin</td>
<td>0.002</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
<tr>
<td>2257 Epichlorohydrin</td>
<td>0.0</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
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<tr>
<td>2992 Ethylbenzene</td>
<td>0.7</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>2946 Ethylene dibromide (EDB)</td>
<td>0.00005</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
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<td>0.7</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
<tr>
<td>2065 Heptachlor</td>
<td>0.00004</td>
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<td>Statewide waiver</td>
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<tr>
<td>2067 Heptachlor epoxide</td>
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<td>Statewide waiver</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
<tr>
<td>2274 Hexachlorobenzene</td>
<td>0.001</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
</tbody>
</table>

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<table>
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<tr>
<th>SDWIS Codes</th>
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<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>2042 Hexachlorocyclopentadiene</td>
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<td>Statewide waiver</td>
<td>Statewide waiver</td>
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<tr>
<td>2010 Lindane</td>
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<td>2015 Methoxychlor</td>
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<tr>
<td>2989 Monochlorobenzene</td>
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<tr>
<td>2968 o-Dichlorobenzene</td>
<td>0.6</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>2969 Para-Dichlorobenzene</td>
<td>0.075</td>
<td>0</td>
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<tr>
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<td>Statewide waiver</td>
<td>Statewide waiver</td>
</tr>
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</tr>
<tr>
<td>2987 Tetrachloroethylene</td>
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<td>0.001</td>
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<td>6</td>
</tr>
<tr>
<td>2984 Trichloroethylene</td>
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<td>0.001</td>
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<td>5</td>
</tr>
<tr>
<td>2996 Styrene</td>
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<td>1</td>
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</tr>
<tr>
<td>2991 Toluene</td>
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<td>0</td>
<td>317</td>
</tr>
<tr>
<td>2979 Trans-1,2-Dichloroethylene</td>
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<td>0</td>
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<tr>
<td>2955 Xylenes (total)</td>
<td>10</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
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* Values are in milligrams per liter (mg/l) unless otherwise specified.
State: New Jersey  
Reporting Interval: January 1, 2002- December 31, 2002

<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL* (mg/l)</th>
<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>2020</td>
<td>0.003</td>
<td>Statewide waiver</td>
<td>Statewide waiver</td>
<td>317</td>
</tr>
<tr>
<td>2036</td>
<td>0.2</td>
<td>0</td>
<td>0</td>
<td>317</td>
</tr>
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<td>0.5</td>
<td>0</td>
<td>0</td>
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<tr>
<td>2037</td>
<td>0.004</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>2976</td>
<td>0.002</td>
<td>0</td>
<td>0</td>
<td>317</td>
</tr>
<tr>
<td>2867</td>
<td>0.06</td>
<td>0</td>
<td>0</td>
<td>317</td>
</tr>
<tr>
<td>2978</td>
<td>0.05</td>
<td>0</td>
<td>0</td>
<td>317</td>
</tr>
<tr>
<td>2251</td>
<td>0.07</td>
<td>1</td>
<td>1</td>
<td>317</td>
</tr>
<tr>
<td>2248</td>
<td>0.3</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>2988</td>
<td>0.001</td>
<td>0</td>
<td>0</td>
<td>317</td>
</tr>
</tbody>
</table>

**Subtotal Organics**

|               | 22          | 20          |                       | 9510                          | 131                        |

* Values are in milligrams per liter (mg/l) unless otherwise specified.
State: New Jersey  
Reporting Interval: January 1, 2002-December 31, 2002

<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL* (mg/l)</th>
<th>MCL Violations</th>
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<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
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<td>1074 Antimony</td>
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<td>2</td>
<td>7</td>
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<tr>
<td>1005 Arsenic</td>
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<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1094 Asbestos</td>
<td>7 million fibers/l &gt;10 μm/l</td>
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<td>0</td>
<td>0</td>
</tr>
<tr>
<td>1010 Barium</td>
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<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>1075 Beryllium</td>
<td>0.004</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>1015 Cadmium</td>
<td>0.005</td>
<td>0</td>
<td>0</td>
<td>6</td>
</tr>
<tr>
<td>1020 Chromium</td>
<td>0.1</td>
<td>0</td>
<td>0</td>
<td>11</td>
</tr>
<tr>
<td>1024 Cyanide (as free cyanide)</td>
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<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>1025 Fluoride</td>
<td>4.0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
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<td>1035 Mercury</td>
<td>0.002</td>
<td>2</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>1040 Nitrate</td>
<td>10 (as Nitrogen)</td>
<td>33</td>
<td>21</td>
<td>438</td>
</tr>
<tr>
<td>1041 Nitrite</td>
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Reporting Interval: January 1, 2002-December 31, 2002

<table>
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<tr>
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<tr>
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<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>1045 Selenium</td>
<td>0.05</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>1085 Thallium</td>
<td>0.002</td>
<td>2</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>1038 Total nitrate and nitrite</td>
<td>10 (as Nitrogen)</td>
<td>See SDWIS code 1040</td>
<td>See SDWIS code 1040</td>
<td>See SDWIS code 1040</td>
</tr>
<tr>
<td>4000 Gross alpha</td>
<td>15 pCi/l</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4010 Radium-226 and -228</td>
<td>5 pCi/l</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>4101 Gross beta</td>
<td>4 mrem/yr</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Subtotal inorganics plus radionuclides</td>
<td>40</td>
<td>26</td>
<td>511</td>
<td>354</td>
</tr>
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</table>

* Values are in milligrams per liter (mg/l) unless otherwise specified.
<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL</th>
<th>MCLs Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
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<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td></td>
<td>Presence</td>
<td></td>
<td>22</td>
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<td>21</td>
<td>Acute MCL Violation</td>
<td>Presence</td>
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<td>167</td>
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<td>22</td>
<td>Non-acute (monthly) MCL violation</td>
<td>Presence</td>
<td></td>
<td>167</td>
</tr>
<tr>
<td>23, 25</td>
<td>Major routine and follow up monitoring</td>
<td></td>
<td>189</td>
<td>139</td>
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<tr>
<td>28</td>
<td>Sanitary survey*</td>
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<td></td>
<td>Subtotal Total Coliform Rule</td>
<td></td>
<td>189</td>
<td>139</td>
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*Number of major monitoring violations for sanitary survey under the Total Coliform Rule.
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<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>Surface Water Treatment Rule</td>
<td></td>
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<tr>
<td>Filtered systems</td>
<td></td>
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<tr>
<td>36</td>
<td>Monitoring, routine/repeat</td>
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<td></td>
<td></td>
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<tr>
<td>41</td>
<td>Treatment techniques</td>
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<td>0</td>
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<tr>
<td>Unfiltered systems</td>
<td></td>
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<td></td>
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<td>31</td>
<td>Monitoring, routine/repeat</td>
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<td>42</td>
<td>Failure to filter</td>
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<tr>
<td>Subtotal Surface Water Treatment Rule</td>
<td></td>
<td></td>
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<td>0</td>
</tr>
<tr>
<td>SDWIS Codes</td>
<td>MCL</td>
<td>MCL Violations</td>
<td>Treatment Techniques</td>
<td>Significant Monitoring/Reporting</td>
</tr>
<tr>
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</tr>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>Interim Enhanced Surface Water Treatment Rule</td>
<td>Filtered systems</td>
<td>Monitoring, routine/repeat</td>
<td>34</td>
<td>7</td>
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<tr>
<td>38</td>
<td>37 Treatment techniques</td>
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<td>0</td>
<td></td>
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<tr>
<td>43</td>
<td>44 Treatment techniques</td>
<td>4</td>
<td>4</td>
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<tr>
<td>47</td>
<td></td>
<td>2</td>
<td>2</td>
<td></td>
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<tr>
<td>Subtotal</td>
<td>Interim Enhanced Surface Water Treatment Rule</td>
<td>6</td>
<td>6</td>
<td>34</td>
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<tr>
<td>SDWIS Codes</td>
<td>*MCL/ MRDL (µg/l)</td>
<td>MCL/MRDL Violations</td>
<td>Treatment Technique Violations</td>
<td>Significant Monitoring/Reporting</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------</td>
<td>---------------------</td>
<td>-----------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td></td>
<td>Federal MCL/ MRDL</td>
<td>State MCL/ MRDL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>Stage 1 Disinfectants and Disinfection Byproducts Rule</td>
<td>Monitoring and Reporting (4 HAA5 for 2 systems and 7 TTHM for 7 systems)</td>
<td>27</td>
<td>11</td>
<td>9</td>
</tr>
<tr>
<td>02 Average MCL (TTHMS)</td>
<td>80</td>
<td>2</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>02 Average MCL (HAA5)</td>
<td>60</td>
<td>0</td>
<td>0</td>
<td></td>
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<td>02 Average MCL Bromate</td>
<td>10</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>02 Average MCL Chlorate</td>
<td>1000</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11 MRDL Chlorine</td>
<td>4.0 ppm as chlorine</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11 MRDL Chloramine</td>
<td>4.0 ppm as chlorine</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>11 MRDL Chlorine Dioxide</td>
<td>800</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>13 MRDL Acute</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12, 37, 46 Treatment Techniques</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtotal of Stage 1 Disinfectants and Disinfection Byproducts Rule.</strong></td>
<td></td>
<td>2</td>
<td>2</td>
<td>0</td>
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</tbody>
</table>

* Values are in micrograms per liter (µg/l) unless otherwise specified.
### SDWIS Codes

<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL</th>
<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>Lead and Copper Rule</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>51</td>
<td>Initial lead and copper tap M/R</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>52</td>
<td>Follow up or routine lead and copper tap M/R</td>
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<td></td>
<td></td>
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<td>58,62</td>
<td>Treatment installation</td>
<td>0</td>
<td>0</td>
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<tr>
<td>65</td>
<td>Public Education</td>
<td>0</td>
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<td></td>
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<tr>
<td><strong>Subtotal Lead and Copper Rule</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

- **State**: New Jersey
- **Reporting Interval**: January 1, 2002 - December 31, 2002
<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL</th>
<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td></td>
<td>Consumer Confidence Reporting</td>
<td></td>
<td></td>
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<tr>
<td>71</td>
<td>Significant Consumer Notification Violations</td>
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</table>

State: New Jersey
Reporting Interval: January 1, 2002-December 31, 2002
**Table 9 - Additional Monitoring in New Jersey Violations Table**
(with SDWIS Codes)

<table>
<thead>
<tr>
<th>SDWIS Codes</th>
<th>MCL* (mg/l)</th>
<th>MCL Violations</th>
<th>Treatment Techniques</th>
<th>Significant Monitoring/Reporting</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Federal MCL</td>
<td>State MCL (if different)</td>
<td>Number of Violations</td>
<td>Number of Systems with Violations</td>
</tr>
<tr>
<td>Organic Contaminants for transient noncommunity water systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2984 Trichloroethylene</td>
<td>0.005</td>
<td>0.001</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Radionuclide MCLs for nontransient noncommunity water systems</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4000 Gross alpha</td>
<td>15 pCi/l</td>
<td></td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>4010 Radium-226 and -228</td>
<td>5 pCi/l</td>
<td></td>
<td>6</td>
<td>6</td>
</tr>
</tbody>
</table>

*Values are in milligrams per liter (mg/l) unless otherwise specified*
Definitions for Violations Tables 8 and 9

The following definitions apply to the Summary of Violations table.

**Consumer Confidence Reports:** SDWIS Violation Code 71 indicates that a Community Water System failed to submit a CCR as required by the Federal Safe Drinking Water Act.

**Filtered Systems:** Water systems that have installed filtration treatment [40 CFR 141, Subpart H].

**Inorganic Contaminants:** Non-carbon-based compounds such as metals, nitrates, and asbestos. These contaminants are naturally occurring in some water, but can get into water through farming, chemical manufacturing, and other human activities. USEPA has established MCLs for 15 inorganic contaminants [40 CFR 141.62].

**Interim Enhanced Surface Water Treatment Rule (IESWTR):** IESWTR establishes criteria under which water systems supplied by surface water sources, or ground water sources under the direct influence of surface water, must filter and disinfect their water [40 CFR 141, Subpart P]. Violations of the IESWTR are to be reported for the following two categories:

*Treatment techniques (for filtered systems):* Treatment technique violation codes shows a system’s failure to properly treat its water. SDWIS Violation Codes 37 is for a change in disinfection without state approval. SDWIS Violation Code 43 is for failure to achieve turbidity <1.0 NTU in all samples. SDWIS Violation Code 44 is for failure to achieve turbidity < 0.3 NTU in 95% of samples and SDWIS Violation Code 47 is for construction of uncovered finished water storage cell.
Monitoring Reporting (for filtered systems): A major Interim Enhanced Surface Water Treatment Rule (IESWTR) monitoring/reporting (M/R) violation occurs under the following seven conditions:

SDWIS Violation code 29 occurs under the following conditions:
- Failure to report filter profile after turbidity > 0.5 in two consecutive measurements 15 min. apart after first 4 hrs after filter taken offline.
- Failure to report filter profile after turbidity >1.0 in 2 consecutive measurements, 15 minutes apart.
- Failure to report self-assessment of filter within 14 days of turbidity exceedance (>1.0 in 2 consecutive Measurements 15 minute apart, 3 consecutive months.)
- Failure to conduct CPE within 30 days after turbidity exceedance (>2.0 in 2 consecutive measure. 15 min apart, 2 consecutive months.)

SDWIS Violation Code 38 occurs under the following conditions:
- Collecting < 90% of filter effluent samples for turbidity and reporting within 10 days after each month.
- Failure to report that the public water system has conducted all filter monitoring to state within 10 days after end of each month.
- Failure to report that the system exceeded turbidity standard in representative samples by end of next business day.

A minor violation under the IESWTR of SDWIS code 38 occurs for any other failure to monitor and report.

Record Keeping Violation: SDWIS Violation Code 09 is for any record keeping violation which occurs when there is a failure to maintain filter monitoring records for 3 years (filter results every 15 minutes).

Lead and Copper Rule: This rule established national limits on lead and copper in drinking water [40 CFR 141.80-91]. Lead and copper corrosion pose various health risks when ingested at any level, and can enter drinking water from household pipes and
plumbing fixtures. States report violations of the Lead and Copper Rule in the following six categories:

*Initial lead and copper tap M/R:* SDWIS Violation Code 51 indicates that a system did not meet initial lead and copper testing requirements, or failed to report the results of those tests to the State.

*Follow-up or routine lead and copper tap M/R:* SDWIS Violation Code 52 indicates that a system did not meet follow-up or routine lead and copper tap testing requirements, or failed to report the results.

*Treatment installation:* SDWIS Violation Codes 58 AND 62 indicate a failure to install optimal corrosion control treatment system (58) or source water treatment system (62) which would reduce lead and copper levels in water at the tap. [One number is to be reported for the sum of violations in these two categories].

*Public education:* SDWIS Violation Code 65 shows that a system did not provide required public education about reducing or avoiding lead intake from water.

**Maximum Contaminant Level (MCL):** The highest amount of a contaminant that USEPA allows in drinking water. MCLs ensure that drinking water does not pose either a short-term or long-term health risk. MCLs are defined in milligrams per liter (parts per million) unless otherwise specified.

**Maximum Residual Disinfectant Level (MRDL):** The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
**Monitoring:** USEPA specifies which water testing methods the water systems must use, and sets schedules for the frequency of testing. A water system that does not follow USEPA’s schedule or methodology is in violation [40 CFR 141].

States must report monitoring violations that are significant as determined by the USEPA Administrator and in consultation with the States. For purposes of this report, significant monitoring violations are major violations and they occur when no samples are taken or no results are reported during a compliance period. A major monitoring violation for the surface water treatment rule occurs when at least 90% of the required samples are not taken or results are not reported during the compliance period.

**Organic Contaminants:** Carbon-based compounds, such as industrial solvents and pesticides. These contaminants generally get into water through runoff from cropland or discharge from factories. USEPA has set legal limits on 54 organic contaminants that are to be reported [40 CFR 141.61].

**Radionuclides:** Radioactive particles, which can occur naturally in water or result from human activity. USEPA has set legal limits on four types of radionuclides: radium-226, radium-228, gross alpha, and beta particle/photon radioactivity [40 CFR 141]. Violations for these contaminants are to be reported using the following three categories:


*Combined radium-226 and radium-228:* SDWIS Contaminant Code 4010 for combined radiation from these two isotopes above MCL of 5 pCi/L.
**Gross beta:** SDWIS Contaminant Code 4101 for beta particle and photon radioactivity from man-made radionuclides above 4 millirem/year.

**Reporting Interval:** The reporting interval for violations to be included in the first PWS Annual Compliance Report, which is to be submitted to USEPA by January 1, 1998, is from July 1, 1996 through June 30, 1997. This interval will change for future annual reports. See guidance language for these intervals.

**SDWIS Code:** Specific numeric codes from the Safe Drinking Water Information System (SDWIS) have been assigned to each violation type included in this report. The violations to be reported include exceeding contaminant MCLs, failure to comply with treatment requirements, and failure to meet monitoring/reporting (M/R) requirements. Four-digit SDWIS Contaminant Codes have also been included in the chart for specific MCL contaminants.

**Surface Water Treatment Rule (SWTR):** The Surface Water Treatment Rule establishes criteria under which water systems supplied by surface water sources, or ground water sources under the direct influence of surface water, must filter and disinfect their water [40 CFR 141, Subpart H].

Violations of the “Surface Water Treatment Rule” are to be reported for the following four categories:

- **Monitoring, routine/repeat (for filtered systems):** SDWIS Violation Code 36 indicates a system’s failure to carry out required tests, or to report the results of those tests.

- **Treatment techniques (for filtered systems):** SDWIS Violation Code 41 shows a system’s failure to properly treat its water.

- **Monitoring, routine/repeat (for unfiltered systems):** SDWIS Violation Code 31 indicates a system’s failure to carry out required water tests, or to report the results of those tests.
**Failure to filter (for unfiltered systems):** SDWIS Violation Code 42 shows a system’s failure to properly treat its water. Data for this violation code will be supplied to the States by USEPA.

**Stage 1 Disinfectants and Disinfection Byproducts Rule (Stage 1 DBPR):** This rule applies to all community water systems (CWS) and nontransient noncommunity water system (NTNCWS) that add a chemical disinfectant in any part of the drinking water treatment process and transient noncommunity (TNC) water system using chlorine dioxide. The Stage 1 DBPR includes maximum residual disinfectant levels (MRDLs) and maximum residual residual disinfectant level goals (MRDLGs) which are similar to MCLs and MCLGs but for disinfectants. [40CFR 141, Subpart L]. Violations of the Stage 1 DBPR are to be reported for the following three categories.

**Treatment Techniques:** SDWIS Violation Code 12 is for failure to have a qualified operator. SDWIS Code 37 is for failure to get state approval for a change in treatment. SDWIS Code 46 is for failure to meet disinfectant byproduct precursor removal (TOC).

**Maximum Contaminant Level (MCL) and Maximum Residual Disinfectant Levels (MRDL):**
SDWIS Violation Code 02 is an MCL Violation that occurs when:

- Average of any three-sample set exceeds the MCL of 1.0 mg/L for chlorite.
- Running annual averages computed quarterly of monthly samples exceeds the MCL of 0.010 mg/L for bromate.
- Running annual averages computed quarterly of quarterly averages of available samples exceeds 0.060 mg/L for HAA5.
- Running annual averages computed quarterly of quarterly averages of available samples exceeds 0.080 mg/L for TTHM.

SDWIS Violation Code 11 is an MRDL Violation that occurs when:

- Any two consecutive daily samples exceed 0.8 mg/L and all distribution samples are less than 0.8 mg/L for chlorine dioxide (non-acute violation).
• Annual average computed quarterly, of monthly averages exceeds 4.0 mg/L for chloramines (exception if microbial contamination problems).

• There is an exceedance of MRDL of 4.0 mg/L for chlorine (exception of microbial contamination problems in distribution system).

SDWIS Violation Code 13 is an MRDL violation that occurs when:

• Any of three required distribution samples taken on day after a daily entry point sample MRDL exceeds 0.8 mg/L for chlorine dioxide (acute violation).

*Monitoring Reporting (M/R)*: SDWIS Violation Code 27 address insufficient sample collection for samples required under the Stage 1 DBPR.

**Total Coliform Rule (TCR): The** Total Coliform Rule establishes regulations for microbiological contaminants in drinking water. These contaminants can cause short-term health problems. If no samples are collected during the one-month compliance period, a significant monitoring violation occurs. States are to report four categories of violations:

*Acute MCL violation:* SDWIS Violation Code 21 indicates that the system found fecal coliform or E. coli, potentially harmful bacteria, in its water, thereby violating the rule.

*Non-acute MCL violation:* SDWIS Violation Code 22 indicates that the system found total coliform in samples of its water at a frequency or at a level that violates the rule. For systems collecting fewer than 40 samples per month, more than one positive sample for total coliform is a violation. For systems collecting 40 or more samples per month, more than 5% of the samples positive for total coliform is a violation.
Major routine and follow-up monitoring: SDWIS Violation Codes 23 AND 25 show that a system did not perform any monitoring. [One number is to be reported for the sum of violations in these two categories.]

Sanitary Survey: SDWIS Violation Code 28 indicates a major monitoring violation if a system fails to collect 5 routine monthly samples if sanitary survey is not performed.

Treatment Techniques: A water disinfection process that USEPA requires instead of an MCL for contaminants that laboratories cannot adequately measure. Failure to meet other operational and system requirements under the Surface Water Treatment and the Lead and Copper Rules have also been included in this category of violation for purposes of this report.

Unfiltered Systems: Water systems that do not need to filter their water before disinfecting it because the source is very clean [40 CFR, Subpart H].

Violation: A failure to meet any state or federal drinking water regulation.
**Appendix A**

The Safe Drinking Water Act Amendments of 1996 includes the following as a specific requirement:

(A) ANNUAL REPORT BY STATE

**Section 1414(c)(3)(A)(i)**

**IN GENERAL** - Not later than January 1, 1998, and annually thereafter, each State that has primary enforcement responsibility under section 1413 shall prepare, make readily available to the public, and submit to the Administrator an annual report on violations of national primary drinking water regulations by public water systems in the State, including violations with respect to (I) maximum contaminant levels, (II) treatment requirements, and (III) variances and exemptions, and (IV) monitoring requirements determined to be significant by the Administrator (of USEPA) after consultation with the States.

**Section 1414(c )(3)(A)(ii)**

**DISTRIBUTION** - The State shall publish and distribute summaries of the report and indicate where the full report is available for review.
## Appendix B: Community Water System 2002 MCL and Treatment Technique Violations

**New Jersey Department of Environmental Protection**

<table>
<thead>
<tr>
<th>PWSID</th>
<th>System Name</th>
<th>Fac #</th>
<th>Violation Date</th>
<th>Contaminant Name</th>
<th>Treatment Status</th>
<th>Compliance Status</th>
<th>COMMENT</th>
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</thead>
<tbody>
<tr>
<td>0108002</td>
<td>ENGLISH CREEK MANOR M H PARK</td>
<td>01</td>
<td>1/1/2002</td>
<td>BENZENE</td>
<td>R</td>
<td></td>
<td>On quarterly monitoring</td>
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<tr>
<td>0108006</td>
<td>TOWER MOBILE HOMES</td>
<td>01</td>
<td>1/1/2001</td>
<td>MERCURY</td>
<td>R</td>
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<td>On quarterly monitoring</td>
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<tr>
<td>0112003</td>
<td>INLAND ESTATES</td>
<td>01</td>
<td>8/1/2002</td>
<td>COLIFORM</td>
<td>N</td>
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<td>Monthly Violation</td>
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<tr>
<td>0211001</td>
<td>ELMWOOD PARK WATER DEPT</td>
<td>01</td>
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<td>Monthly Violation</td>
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<td>8/1/2002</td>
<td>COLIFORM</td>
<td>R</td>
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<td>Monthly Violation</td>
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<td>01</td>
<td>10/1/2002</td>
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<td>RTC</td>
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<td>Monthly Violation</td>
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**KEY TO APPENDIX B:**

*Treatment Status:  N = Not required, R = Required but not installed, I = Installed, U = Under construction*

**Compliance Status:  PN = Public notice, RTC = Return to Compliance**
## Appendix C: Community Water System 2002 Action Level Violation

New Jersey Department of Environmental Protection

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**KEY TO APPENDIX C:**
*Treatment Status:  N = Not required, R = Required but not installed, I = Installed, U = Under construction
** Compliance Status: PN = Public notice, RTC = Return to Compliance, NOV = Notice of violation.*
## Appendix D: Noncommunity Water System 2002 MCL Violations

New Jersey Department of Environmental Protection

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**KEY TO APPENDIX D:**
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**KEY TO APPENDIX E:**
*Treatment Status:  N = Not required, R = Required but not installed, I = Installed, U = Under construction
** Compliance Status:  PN = Public notice, RTC = Return to Compliance*
Appendix F

2002 Significant Consumer Confidence Notification Violations

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<td>GREENWOOD CONDO COMPLEX</td>
<td>RTC 3/21/03</td>
<td>Administrative Order and penalty 5/15/03</td>
</tr>
<tr>
<td>1912008</td>
<td>FRANCIS AVE WATER ASSOCIATION</td>
<td>RTC 3/17/03</td>
<td>Administrative Order and penalty 1/8/03</td>
</tr>
<tr>
<td>1922015</td>
<td>WALNUT HILLS WATER CO.</td>
<td></td>
<td>Administrative Order w/o penalty. To be taken over by another water system.</td>
</tr>
<tr>
<td>2116001</td>
<td>DIAMOND HILLS</td>
<td></td>
<td>Taken over by Hacketstown MUA 8/7/2002</td>
</tr>
</tbody>
</table>
# Appendix G

## MCL Violations Related to Additional Monitoring in New Jersey

### Transient Noncommunity Water Systems with Volatile Organic MCL Violations

<table>
<thead>
<tr>
<th>PWID</th>
<th>System Name</th>
<th>Violation Date</th>
<th>Contaminant Name</th>
<th>Treatment</th>
<th>Compliance Status</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0215302</td>
<td>EXXON USA 3-2025</td>
<td>1/1/02</td>
<td>Trichloroethylene</td>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

### Nontransient Noncommunity Water Systems with Radionuclide MCL Violations

<table>
<thead>
<tr>
<th>PWID</th>
<th>System Name</th>
<th>Violation Date</th>
<th>Contaminant Name</th>
<th>Treatment</th>
<th>Compliance Status</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>0105398</td>
<td>Granny’s Child Care</td>
<td>3/13/02</td>
<td>Combined Radium (226 &amp; 228)</td>
<td>R</td>
<td>Public notice requested</td>
<td></td>
</tr>
<tr>
<td>0614321</td>
<td>East Vineland School</td>
<td>7/10/02</td>
<td>Gross alpha particle activity. Combined Radium (226 &amp; 228)</td>
<td>R</td>
<td>Public notice requested</td>
<td></td>
</tr>
<tr>
<td>1221314</td>
<td>BASF Corp. Well # 2</td>
<td>4/9/02</td>
<td>Gross alpha particle activity. Combined Radium (226 &amp; 228)</td>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1221315</td>
<td>BASF Corp. Well # 3</td>
<td>4/9/02</td>
<td>Gross alpha particle activity. Combined Radium (226 &amp; 228)</td>
<td>R</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1435346</td>
<td>Katherine Malone School</td>
<td>4/10/02</td>
<td>Gross alpha particle activity. Combined Radium (226 &amp; 228)</td>
<td>R</td>
<td>Public notice requested</td>
<td></td>
</tr>
<tr>
<td>1922355</td>
<td>My School Inc</td>
<td>2/27/02</td>
<td>Gross alpha particle activity. Combined Radium (226 &amp; 228)</td>
<td>R</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>