

## Maximum Contaminant Levels (MCLs) for Drinking Water

**Notes:** mg/l (milligrams per liter) is same as ppm (parts per million).  
**Primary MCL** refers to health-related effects.  
**Secondary MCL** refers to cosmetic (skin or tooth discoloration) or aesthetic (taste, odor, or color) effects.  
 For more detailed information, go to the EPA website [www.epa.gov/safewater](http://www.epa.gov/safewater).

Parameter	Primary MCL	Secondary MCL	Potential Effects
Alkalinity	None	None	Alkalinity is influenced by local rock type and reflects the chemical properties of dissolved constituents.
Arsenic	0.01 mg/l	None	Arsenic is a carcinogen.
Barium	2 mg/l	None	Can cause increase in blood pressure.
Cadmium	0.005 mg/l	None	Can cause liver damage.
Calcium	None	None	
Chromium	0.1 mg/l	None	Can cause allergic dermatitis.
Chloride	250 mg/l	None	Chloride can affect taste, and can indicate salt water intrusion.
Copper	1.3 mg/l	1.0 mg/l	In large doses, copper is dangerous to infants and people with certain metabolic disorders. However, lack of copper intake causes anemia, growth inhibition, and problems with blood circulation.
Fluoride	4.0 mg/l	2.0 mg/l	Fluoride in concentrations above 4 mg/l can cause skeletal damage. Fluoride in concentrations above 2 mg/l can cause staining.
Hardness	None	None	Indicates the presence of dissolved ions in water.
Iron	None	0.30 mg/l	Iron may contribute to bad taste, pipe clogging, and clothes, tub, sink, and teeth staining.
Lead	0.015 mg/l (action level)	None	Lead can cause neurological and physical problems, especially in young children.
Magnesium	None	None	
Manganese	None	0.05 mg/l	In large doses, manganese can cause headaches, apathy, irritability, insomnia, and weakness of the legs. Long-term heavy exposure may result in nervous-system disorders.
Mercury	0.002 mg/l	None	Can cause kidney damage.
Nitrate	10.0 mg/l	None	Nitrates and Nitrites can cause shortness of breath and "blue baby syndrome" in children under the age of 6 months.
Nitrite	1.0 mg/l	None	Nitrites and Nitrates can cause shortness of breath and "blue baby syndrome" in children under the age of 6 months.
pH	None	6.5-8.5	Low pH (less than 6.5) can contribute to the corrosiveness of water and can allow leaching of impurities from pipes into drinking water.
Selenium	0.05 mg/l	None	Too much selenium can cause hair or fingernail loss, numbness in fingers or toes, and circulatory problems.
Silver	None	0.10 mg/l	Silver can cause skin discoloration (Argyria) if ingested. Additionally, silver is used as an antibacterial agent in home water treatment systems.
Sodium	None	None	Water softeners can contribute to the level of sodium in water.
Zinc	None	5.0 mg/l	More than 5.0 mg/l causes a metallic bitter taste and 25 - 40 mg/l may cause nausea and vomiting.

**Sources:** North Carolina Cooperative Extension Service special project number 91-EWQ1-1-9274.  
 Environmental Engineering and Sanitation, Third Edition; Joseph A. Salvato, P.E.  
 EPA National Primary Drinking Water Standards June 2003; from [www.epa.gov/safewater](http://www.epa.gov/safewater).

DEH's On-Site Water Supply Branch appreciates the efforts of Mr. Mark Murosky, Craven County Health Department, in the development of this table.

RECEIVED

JUN 09 2017

County of Sierra

Drinking Water Analysis – Detection & Confirmation of Total Coliform and E. coli by EPA Approved MMO-MUG Method

SAMPLE IDENTIFICATION & SUBMITTAL			
Shaded areas are for lab use only. Clients please fill in all other boxes with black ink.			
Sample Bottle No. <b>AETL-LC 263-17</b>	Received by: <i>[Signature]</i>	Date Received: <b>1-19-17</b>	Time Received: <b>1440</b>
	Processed by: <i>[Signature]</i>	Date Incubated: <b>1-19-17</b>	Time Incubated: <b>1645</b>
Condition Upon Receipt: <input checked="" type="checkbox"/> AETL Bottle <input type="checkbox"/> Ambient Temperature <input checked="" type="checkbox"/> Chilled/Cool Temperature <input checked="" type="checkbox"/> Chain of Custody Seal <input checked="" type="checkbox"/> Intact Bottle <input checked="" type="checkbox"/> Sufficient Volume <input type="checkbox"/> Sediment <input type="checkbox"/> Turbid			Other Condition:
*Water Supply System or Owner's Name <b>MONTICELLO PLAZA WWT</b>		Company <b>ALAMOSA</b> Contact Person <b>RICHARD</b> Phone <b>575 740-2349</b>	
*PWSS Number <b>NM35</b>		Mailing Address <b>PO BOX 190</b>	
Facility ID Number:		City <b>MONTICELLO</b> State <b>NM</b> Zip Code <b>87939</b>	
*Collection Location (physical address or physical location) <b>MONTICELLO PLAZA</b>		Sample Point ID RT _____	
*Sampler (Printed Name) <b>DAVIDSON</b>	Operator/Sampler Certification No.:	Collection Site (e.g. sink, outside spigot, site/space #) <b>OUTSIDE SPIGOT</b>	
*Date (MM/DD/YY) Collected: <b>1.19.2017</b>	*Time (24 hr) Collected: <b>8:00 AM</b>	NMED-DWB Field Office Oversight: <input type="checkbox"/> Las Cruces <input type="checkbox"/> Albuquerque <input type="checkbox"/> Ruidoso <input type="checkbox"/> Raton <input type="checkbox"/> Santa Fe <input type="checkbox"/> Silver City <input type="checkbox"/> Hobbs	
Is system chlorinated? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, Residual Free Conc. _____ mg/L	If repeat: Original Sample No.:	
Deliver Results Via: <input type="checkbox"/> Mail (address above)	E-mail: <b>RDAVIDSON@ALAMOSADESIGN.COM</b>	Fax: <b>LSM</b>	Mark & Enter Repeat Sample Point ID
Type of Water System (check box)	Sample Type (reason for sampling)	Source Type:	<input type="checkbox"/> Original RP _____ O
<input checked="" type="checkbox"/> Community	<input type="checkbox"/> Routine Sample	<input checked="" type="checkbox"/> Ground	<input type="checkbox"/> Upstream RP _____ U
<input type="checkbox"/> Non-community	<input type="checkbox"/> Repeat Sample	<input type="checkbox"/> Surface	<input type="checkbox"/> Downstream RP _____ D
<input checked="" type="checkbox"/> Private well	<input type="checkbox"/> NMED Monitoring Sample	<input type="checkbox"/> Blended	<input type="checkbox"/> Alternate RP _____ DA
<input type="checkbox"/> Waste Water Treatment Plant	<input type="checkbox"/> Special Sample <input type="checkbox"/> Distribution <input type="checkbox"/> Source	<input type="checkbox"/> Other (specify):	<input type="checkbox"/> Alternate RP _____ UA
<input type="checkbox"/> Other (specify)	<input type="checkbox"/> Triggered Source Sample** (Ground Water Rule)		<input type="checkbox"/> Upstream

PRINT CLEARLY

\*Must be recorded at time of collection and must match information on sample bottle

CHAIN OF CUSTODY for All PWS SAMPLES					
All PWSS samples submitted must have chain of custody information below completed to be processed.					
Sample was:	Printed Name	Signature**	Company/Agency/Facility	Date/Time	Seal Intact
1. Released by: (Collector)	<b>DAVIDSON</b>	<i>[Signature]</i>	<b>ALAMOSA</b>	<b>1/19 12:40 pm</b>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2. Received by:				/	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Released by:				/	<input type="checkbox"/> Yes <input type="checkbox"/> No
3. Received by:				/	<input type="checkbox"/> Yes <input type="checkbox"/> No
4. Released by:				/	<input type="checkbox"/> Yes <input type="checkbox"/> No

\*\*Signature above verifies the condition of the sample bottle's or transport container's evidentiary seal.

TEST RESULTS			
Check observed results			
TOTAL COLIFORM	<input checked="" type="checkbox"/> ABSENT <input type="checkbox"/> PRESENT	<input type="checkbox"/> SAMPLE REJECTED Please re-sample	
E. coli	<input checked="" type="checkbox"/> ABSENT <input type="checkbox"/> PRESENT	Reason:	
Analyst: <i>[Signature]</i>	Date Analyzed: <b>1-20-17</b>	Time Analyzed: <b>1045</b>	Positive confirmed by: <b>JUN 09 2017</b>
System Notified by: (If Positive Sample)	Date Notified:	Time Notified:	System Contact:
District Notified by: (If Positive Sample)	Date Notified:	Time Notified:	District Contact: <b>County of Sierra</b>
Notes:			

## Aqua Environmental Testing Laboratory

NM Lab # 0701 - 103 Via Aguila Ruidoso NM 575-336-1107 aetlab@windstream.net  
 NM Lab #1201 - 12695 Leasburg St Pk Rd Las Cruces NM 575-526-0871 aetlab1201@centurylink.net

### WATER CHEMISTRY REPORT

<b>Client:</b> Monticello Plaza Attn: Richard Davidson 3 Calle Del Sun Monticello NM 87939		<b>Phone:</b> 575-7430-044 <b>Email:</b> rdavidson@alamosadesign.com	
<b>Date Collected:</b> 1-19-17/0800	<b>Date Received:</b> 1-19-17/1440	<b>Date Analyzed:</b> 1-24-17	
<b>Collector:</b> Richard Davidson	<b>Received By:</b> Josh Alderete	<b>Analyst:</b> CJ Garcia	
<b>Sample Location:</b> Monticello Plaza	<b>Sample Site:</b> Well 108' depth	<b>PWSS/GWDP/NPDES No.:</b> N/A	
<b>Sample Lab I.D.:</b> LC01917-C1	<b>Sample Field I.D.:</b> N/A	<b>Sample Type:</b> Private Drinking Water	

Test	Result	Method Used	Method Reference	Detection Limit	Primary MCL <sup>1</sup>	Secondary Standard
pH	7.47	Meter	4500-H <sup>+</sup> B**	NA	-	6.5 to 8.5
Temperature	20.0° C	Meter	2550 B**	NA	-	-
Turbidity	0.346 NTU <sup>7</sup>	Meter	180.1*	<0.1 NTU	5 NTU	-
Conductivity	950 µS/cm <sup>5</sup>	Meter	2510**	NA	-	-
Total Dissolved Solids	465 ppm <sup>2</sup>	Meter	2510**	NA	-	500 ppm
Salinity	0.500 ppt <sup>6</sup>	Meter	2510**	NA	-	-
Hardness***	400 ppm <sup>2</sup>	Titration	2340 C**	4 ppm	-	-
Sulfate	154 ppm <sup>2</sup>	Spectr <sup>3</sup>	375.4*	6 ppm	-	250 ppm
Nitrate NO <sub>3</sub> -N	2.35 ppm <sup>2</sup>	Spectr <sup>3</sup>	353.2*	0.01 ppm	10 ppm	-

<sup>1</sup>MCL = Maximum Contaminant Level as established by the US EPA for drinking water.

<sup>2</sup>ppm = parts per million = mg/L

<sup>3</sup>Spectrophotometric method

<sup>4</sup>Below Detection Limit

<sup>5</sup>µS/cm = microSiemens/centimeter = 1/µohm\*cm

<sup>6</sup>ppt = parts per thousand = g/L.

<sup>7</sup>Nephelometric Turbidity Unit

<sup>8</sup>ppb= parts per billion = µg/L

\*US EPA Method

\*\*Standard Methods for the Examination of Water and Wastewater, 20<sup>th</sup> Edition, 1998.

\*\*\* To convert hardness to Grains divide ppm concentration by 17.9.



**Data Reviewed By:** \_\_\_\_\_ **Date:** 1-25-17

Monticello Plaza Well WQP+ LC011917-C1

January 25, 2017





