

Table 3-2. Groundwater Screening Value, Detection Limits, and Control Limits

Method	Analyte	CAS	Units	NM WQCC GW ¹	EPA MCL ²	EPA RSL Cancer Tap Water ³	EPA RSL Noncancer Tap Water ⁴	Final Selected SL ⁵	Final Selected SL Reference	Risk Endpoint c/nc	DL (µg/L or mg/L)	LOD (µg/L or mg/L)	LOQ (µg/L or mg/L)	LCS MS MSD LCL (%)	LCS MS MSD UCL (%)	RPD (%)
6010C	Aluminum	7429-90-5	µg/L	5000			20000	5000	WQCC		18	70	300	86	115	20
6010C	Calcium ⁶	7440-70-2	µg/L					NA			34.5	135	1000	87	113	20
6010C	Iron	7439-89-6	µg/L	1000			14000	1000	WQCC		22	85	100	87	115	20
6010C	Magnesium ⁶	7439-95-4	µg/L					NA			10.7	40	500	85	113	20
6010C	Potassium ⁶	7440-09-7	µg/L					NA			237	940	3000	86	114	20
6010C	Sodium ⁶	7440-23-5	µg/L					NA			117	350	5000	87	115	20
6020A	Antimony	7440-36-0	µg/L	6	6		7.8	6	WQCC		0.4	1	6	85	117	20
6020A	Arsenic	7440-38-2	µg/L	10	10	0.52	6	10	WQCC		0.33	1	5	84	116	20
6020A	Barium	7440-39-3	µg/L	2000	2000		3800	2000	WQCC		0.29	0.95	3	86	114	20
6020A	Beryllium	7440-41-7	µg/L	4	4		25	4	WQCC		0.08	0.3	1	83	121	20
6020A	Cadmium	7440-43-9	µg/L	5	5		1.8	5	WQCC		0.265	1	1	87	115	20
6020A	Chromium	7440-47-3	µg/L	50	100			50	WQCC		0.5	1.8	10	85	116	20
6020A	Cobalt	7440-48-4	µg/L	50			6	50	WQCC		0.054	0.2	1	86	115	20
6020A	Copper	7440-50-8	µg/L	1000	1300		800	1000	WQCC		0.56	1.8	2	85	118	20
6020A	Lead	7439-92-1	µg/L	15	15		15	15	WQCC		0.18	0.7	3	88	115	20
6020A	Manganese	7439-96-5	µg/L	200				200	WQCC		0.31	0.95	3.5	87	115	20
6020A	Nickel	7440-02-0	µg/L	200			390	200	WQCC		0.3	1	3	85	117	20
6020A	Selenium	7782-49-2	µg/L	50	50		100	50	WQCC		0.7	2	5	80	120	20
6020A	Silver	7440-22-4	µg/L	50			94	50	WQCC		0.033	0.1	5	85	116	20
6020A	Thallium	7440-28-0	µg/L	2	2		0.2	2	WQCC		0.05	0.2	1	82	116	20
6020A	Vanadium	7440-62-2	µg/L				86	86	RSL	nc	0.5	2	6	86	115	20
6020A	Zinc	7440-66-6	µg/L	10000			6000	10000	WQCC		2	8	20	83	119	20
6860	Perchlorate	14797-73-0	µg/L		15		14	15	MCL		0.004	0.01	0.05	84	119	20
7470A	Mercury	7439-97-6	µg/L	2	2		0.63	2	WQCC		0.027	0.08	0.2	82	119	20
8260C	1,1,1,2-Tetrachloroethane	630-20-6	µg/L			5.7	480	5.7	RSL	c	0.117	0.25	1	78	124	20
8260C	1,1,1-Trichloroethane	71-55-6	µg/L	200	200		8000	200	WQCC		0.171	0.25	1	74	131	20
8260C	1,1,2,2-Tetrachloroethane	79-34-5	µg/L	10		0.76	360	10	WQCC		0.1	0.25	1	71	121	20
8260C	1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	µg/L				10000	10000	RSL	nc	0.1	0.25	1	70	136	20
8260C	1,1,2-Trichloroethane	79-00-5	µg/L	5	5	2.8	0.41	5	WQCC		0.132	0.25	1	80	119	20
8260C	1,1-Dichloroethane	75-34-3	µg/L	25		28	3800	25	WQCC		0.07	0.25	1	77	125	20
8260C	1,1-Dichloroethene	75-35-4	µg/L	7	7		280	7	WQCC		0.1	0.25	1	71	131	20
8260C	1,1-Dichloropropene (surrogate dichloropropene, 1,3-)	563-58-6	µg/L			4.7	39	4.7	RSL	c	0.104	0.25	1	79	125	20
8260C	1,2,3-Trichlorobenzene	87-61-6	µg/L				7	7	RSL	nc	0.174	0.25	2	69	129	20
8260C	1,2,3-Trichloropropane	96-18-4	µg/L			0.0075	0.62	0.0075	RSL	c	0.183	0.25	1	73	122	20
8260C	1,2,4-Trichlorobenzene	120-82-1	µg/L	70	70	12	4	70	WQCC		0.1	0.25	5	69	130	20
8260C	1,2,4-Trimethylbenzene	95-63-6	µg/L				56	56	RSL	nc	0.17	0.25	1	76	124	20
8260C	1,2-Dibromo-3-Chloropropane	96-12-8	µg/L		0.2	0.0033	0.37	0.2	MCL		0.3	1	5	62	128	20
8260C	1,2-Dichlorobenzene	95-50-1	µg/L	600	600		300	600	WQCC		0.1	0.25	1	80	119	20
8260C	1,2-Dichloroethane	107-06-2	µg/L	5	5	1.7	13	5	WQCC		0.215	0.25	1	73	128	20

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8260C	1,3,5-Trimethylbenzene	108-67-8	µg/L				60	60	RSL	nc	0.163	0.25	1	75	124	20
8260C	1,3-Dichlorobenzene (surrogate dichlorobenzene, 1,4-)	541-73-1	µg/L	75	75	4.8	570	75	WQCC		0.106	0.25	1	80	119	20
8260C	1,3-Dichloropropane	142-28-9	µg/L				370	370	RSL	nc	0.1	0.25	1	80	119	20
8260C	1,4-Dichlorobenzene	106-46-7	µg/L	75	75	4.8	570	75	WQCC		0.1	0.25	1	79	118	20
8260C	2,2-Dichloropropane (surrogate dichloropropane, 1,2-)	594-20-7	µg/L	5	5	8.5	8.2	5	WQCC		0.177	0.25	1	60	139	20
8260C	2-Butanone (MEK)	78-93-3	µg/L				5600	5600	RSL	nc	0.469	1	5	56	143	20
8260C	2-Chlorotoluene	95-49-8	µg/L				240	240	RSL	nc	0.153	0.25	1	79	122	20
8260C	2-Hexanone	591-78-6	µg/L				38	38	RSL	nc	0.248	0.5	5	57	139	20
8260C	4-Chlorotoluene	106-43-4	µg/L				250	250	RSL	nc	0.154	0.25	1	78	122	20
8260C	4-Methyl-2-pentanone (MIBK)	108-10-1	µg/L				6300	6300	RSL	nc	0.216	0.5	5	67	130	20
8260C	Acetone	67-64-1	µg/L				18000	18000	RSL	nc	0.554	1	2	39	160	20
8260C	Benzene	71-43-2	µg/L	5	5	4.6	33	5	WQCC		0.1	0.25	1	79	120	20
8260C	Bromobenzene	108-86-1	µg/L				62	62	RSL	nc	0.119	0.25	1	80	120	20
8260C	Bromochloromethane	74-97-5	µg/L				150	150	RSL	nc	0.143	0.5	1	78	123	20
8260C	Bromodichloromethane	75-27-4	µg/L		80	1.3	150	80	MCL		0.138	0.25	1	79	125	20
8260C	Bromoform	75-25-2	µg/L		80	33	380	80	MCL		0.17	0.25	1	66	130	20
8260C	Bromomethane	74-83-9	µg/L				7.5	7.5	RSL	nc	0.25	0.5	2	53	141	20
8260C	Carbon disulfide	75-15-0	µg/L				810	810	RSL	nc	0.1	0.25	2	64	133	20
8260C	Carbon tetrachloride	56-23-5	µg/L	5	5	4.6	49	5	WQCC		0.181	0.25	1	72	136	20
8260C	Chlorobenzene	108-90-7	µg/L		100		78	100	MCL		0.109	0.25	2	82	118	20
8260C	Chloroethane	75-00-3	µg/L				8300	8300	RSL	nc	0.163	0.25	2	60	138	20
8260C	Chloroform	67-66-3	µg/L	100	80	2.2	97	80	MCL		0.1	0.25	1	79	124	20
8260C	Chloromethane	74-87-3	µg/L				190	190	RSL	nc	0.102	0.25	2	50	139	20
8260C	cis-1,2-Dichloroethene	156-59-2	µg/L	70	70		25	70	WQCC		0.1	0.25	1	78	123	20
8260C	cis-1,3-Dichloropropene (surrogate dichloropropene, 1,3-)	10061-01-5	µg/L			4.7	39	4.7	RSL	c	0.158	0.25	1	75	124	20
8260C	Dibromochloromethane	124-48-1	µg/L		80	8.7	380	80	MCL		0.143	0.25	1	74	126	20
8260C	Dibromomethane	74-95-3	µg/L				8.3	8.3	RSL	nc	0.21	0.5	2	79	123	20
8260C	Dichlorodifluoromethane	75-71-8	µg/L				200	200	RSL	nc	0.138	0.25	2	32	152	20
8260C	Ethylbenzene	100-41-4	µg/L	700	700	15	500	700	WQCC		0.122	0.25	1	79	121	20
8260C	Hexachlorobutadiene	87-68-3	µg/L			1.4	6.5	1.4	RSL	c	0.5	1	2	66	134	20
8260C	Isopropylbenzene	98-82-8	µg/L				450	450	RSL	nc	0.167	0.25	1	72	131	20
8260C	Methyl acetate	79-20-9	µg/L				20000	20000	RSL	nc	0.755	1	25	56	136	20
8260C	Methyl tert-butyl ether	1634-04-4	µg/L	100		140	6300	100	WQCC		0.146	0.25	2	71	124	20
8260C	Methylcyclohexane (surrogate cyclohexane)	108-87-2	µg/L				13000	13000	RSL	nc	0.158	0.5	4	72	132	20
8260C	Methylene Chloride	75-09-2	µg/L	5	5	110	110	5	WQCC		0.27	0.5	1	74	124	20
8260C	m-Xylene & p-Xylene (surrogate o-xylene)	179601-23-1	µg/L				190	190	RSL	nc	0.148	0.5	2	80	121	20
8260C	Naphthalene	91-20-3	µg/L	30		1.2	6.1	30	WQCC		0.208	0.25	5	61	128	20
8260C	n-Butylbenzene	104-51-8	µg/L				1000	1000	RSL	nc	0.181	0.5	1	75	128	20

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8260C	N-Propylbenzene	103-65-1	µg/L				660	660	RSL	nc	0.164	0.25	1	76	126	20
8260C	o-Xylene	95-47-6	µg/L				190	190	RSL	nc	0.126	0.25	1	78	122	20
8260C	p-Isopropyltoluene (surrogate cumene)	99-87-6	µg/L				450	450	RSL	nc	0.171	0.25	1	77	127	20
8260C	sec-Butylbenzene	135-98-8	µg/L				2000	2000	RSL	nc	0.164	0.25	1	77	126	20
8260C	Styrene	100-42-5	µg/L	100	100		1200	100	WQCC		0.134	0.25	1	78	123	20
8260C	tert-Butylbenzene	98-06-6	µg/L				690	690	RSL	nc	0.181	0.25	1	78	124	20
8260C	Toluene	108-88-3	µg/L	1000	1000		1100	1000	WQCC		0.14	0.25	1	80	121	20
8260C	trans-1,2-Dichloroethene	156-60-5	µg/L	100	100		68	100	WQCC		0.103	0.25	1	75	124	20
8260C	trans-1,3-Dichloropropene (surrogate dichloropropene, 1,3-)	10061-02-6	µg/L			4.7	39	4.7	RSL	c	0.1	0.25	1	73	127	20
8260C	Trichloroethene	79-01-6	µg/L	5	5	4.9	2.8	5	WQCC		0.25	0.5	1	79	123	20
8260C	Trichlorofluoromethane	75-69-4	µg/L				5200	5200	RSL	nc	0.11	0.25	1	65	141	20
8260C	Vinyl chloride	75-01-4	µg/L	2	2	0.19	42	2	WQCC		0.2	0.5	1	58	137	20
8260C	1,2-Dichloroethane-d4 ⁸	17060-07-0	%					NA								
8260C	Toluene-d8 ⁸	2037-26-5	%					NA						89	112	20
8260C	Dibromofluoromethane ⁸	1868-53-7	%					NA						80	119	20
8260C	4-Bromofluorobenzene (Surrogate)	460-00-4	%				4.6	NA						85	114	20
8270E	2,4-Dinitrophenol	51-28-5	µg/L				39	39	RSL	nc	14	18	30	31	124	20
8270E	2,4-Dinitrotoluene	121-14-2	µg/L			2.4	38	2.4	RSL	c	0.0838	0.2	0.4	78	120	20
8270E	2,6-Dinitrotoluene	606-20-2	µg/L			0.49	5.7	0.49	RSL	c	0.0645	0.2	0.2	77	127	20
8270E	2-Nitrophenol (surrogate chlorophenol, 2-)	88-75-5	µg/L				91	91	RSL	nc	0.39	1	20	47	123	20
8270E	3 & 4 Methylphenol (surrogate o-cresol)	15831-10-4	µg/L				930	930	RSL	nc	0.25	0.5	20	29	110	20
8270E	4,6-Dinitro-2-methylphenol	534-52-1	µg/L				1.5	1.5	RSL	nc	8	20	21	44	137	20
8270E	Diethyl phthalate	84-66-2	µg/L				15000	15000	RSL	nc	0.38	1	20	56	125	20
8270E	Nitrobenzene	98-95-3	µg/L			1.4	13	1.4	RSL	c	0.091	0.2	0.4	65	134	20
8330B	1,3,5-Trinitrobenzene	99-35-4	µg/L				590	590	RSL	nc	0.0841	0.2	0.21	73	125	20
8330B	1,3-Dinitrobenzene	99-65-0	µg/L				2	2	RSL	nc	0.0369	0.1	0.11	78	120	20
8330B	2,4,6-Trinitrotoluene	118-96-7	µg/L			25	9.8	9.8	RSL	nc	0.045	0.1	0.11	71	123	20
8330B	2,4-Dinitrotoluene	121-14-2	µg/L			2.4	38	2.4	RSL	c	0.33	0.66	0.7	78	120	20
8330B	2,6-Dinitrotoluene	606-20-2	µg/L			0.49	5.7	0.49	RSL	c	0.0401	0.08	0.1	77	127	20
8330B	2-Amino-4,6-dinitrotoluene	35572-78-2	µg/L				1.9	1.9	RSL	nc	0.0507	0.1	0.11	79	120	20
8330B	3,5-Dinitroaniline	618-87-1	µg/L				7.7	7.7	RSL	nc	0.132	0.3	0.4	71	117	20
8330B	4-Amino-2,6-dinitrotoluene	19406-51-0	µg/L				1.9	1.9	RSL	nc	0.0577	0.12	0.15	76	125	20
8330B	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	2691-41-0	µg/L				1000	1000	RSL	nc	0.0876	0.2	0.21	65	135	20
8330B	m-Nitrotoluene	99-08-1	µg/L				1.7	1.7	RSL	nc	0.195	0.35	0.4	73	125	20
8330B	Nitrobenzene	98-95-3	µg/L			1.4	13	1.4	RSL	c	0.091	0.2	0.21	65	134	20
8330B	Nitroglycerin	55-63-0	µg/L			45	2	2	RSL	nc	0.5	1.5	2	74	127	20
8330B	o-Nitrotoluene	88-72-2	µg/L			3.1	16	3.1	RSL	c	0.0855	0.2	0.21	70	127	20
8330B	Pentaerythritol tetranitrate (PETN)	78-11-5	µg/L			170	170	170	RSL	c	0.447	1	1.1	73	127	20

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8330B	p-Nitrotoluene	99-99-0	µg/L			43	71	43	RSL	c	0.1	0.4	0.41	71	127	20
8330B	Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	121-82-4	µg/L			9.7	80	9.7	RSL	c	0.0515	0.2	0.21	68	130	20
8330B	Trinitrophenylmethylnitramine (Tetryl)	479-45-8	µg/L				39	39	RSL	nc	0.0318	0.1	0.11	64	128	20
8330B	1,2-Dinitrobenzene (Surrogate)	528-29-0	%				1.9	NA			0.05	0.12	0.2			
9056A	Nitrate as N	14797-55-8	mg/L	10	10		32	10	WQCC		0.0901	0.2	0.5	88	111	10
9056A	Nitrite as N	14797-65-0	mg/L		1		2	1	MCL		0.049	0.1	0.5	87	111	10

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Notes:

- ¹ NM WQCC standards per NMAC 20.6.2.3103.
- ² EPA drinking water primary MCL per 40 CFR Part 141 and Part 143.
- ³ EPA RSL tap water carcinogenic risk endpoint with cancer risk adjusted to 1×10^{-5} , updated Nov. 2022.
- ⁴ EPA RSL tap water non-carcinogenic risk endpoint with hazard quotient of 1.0, updated Nov. 2022.
- ⁵ Screening Criteria were selected in accordance with the hierarchy outlined in Attachment 7.1 of the FWDA RCRA Permit (NMED, 2015). The hierarchy is as follows: (1) NM WQCC values, (2) EPA MCL values, if both are available then select the lower of the two. If both are not available, use the lower of the (3) EPA RSL Cancer values adjusted to 1×10^{-5} and (4) EPA RSL Noncancer values.
- ⁶ Analyte is considered an essential nutrient and risk in groundwater will not be evaluated.

Shaded lines indicate the selected screening level is lower than the achievable limit of quantitation.

Acronyms and Abbreviations:

µg/L = microgram per liter	MCL = EPA maximum contaminant level (primary or secondary)
c = carcinogenic	mg/L = milligram per liter
CAS = Chemical Abstracts Service registry number	MS = matrix spike
CFR = Code of Federal Regulations	MSD = matrix spike duplicate
DL = detection limit	NA = not applicable (essential nutrients and laboratory surrogates used in analytical procedures)
EPA = U.S. Environmental Protection Agency	nc = non-carcinogenic
FWDA = Fort Wingate Depot Activity	NM WQCC = New Mexico Water Quality Control Commission
GW = groundwater	NS = no standard
LOD = limit of detection	RPD = relative percent difference
LOQ = limit of quantitation	RSL = regional screening level
LCL = lower confidence limit	UCL = upper confidence limit
LCS = laboratory control sample	WQCC = Water Quality Control Commission standard

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