

Table 2. Hydrogeologic unit and land use at 22 wells sampled as part of U.S. Geological Survey-N.J. Department of Environmental Protection (cooperative) Ambient Ground-Water-Quality Network, water year 1998.

[WMA, Watershed Management Area; VOCs, volatile organic compounds; mg/L, milligrams per liter; Ca, calcium; Mg, magnesium; Na, sodium; HCO₃, bicarbonate; SO₄, sulfate; NO₂+NO₃, nitrite plus nitrate; dis, dissolved; <, less than; ft bls, feet below land surface]

Station number	Hydrogeologic unit	Predominant land use ¹	Water type (dominant cation - anion)	Dis. oxygen (mg/L)	Nitrogen, NO ₂ +NO ₃ , dis. (mg/L)	Number of pesticides detected ²	Number of VOCs detected ²	Compounds in excess of the Maximum Contaminant Level (MCL) ³	Well depth (ft bls)	WMA number
403356075013901	Passaic Formation	Agricultural	Ca/Mg-HCO ₃	.1	.47	None	None	None	150	11
402640074541501	Passaic Formation	Agricultural	Ca/Mg-HCO ₃	<.1	.94	None	3	Arsenic	175	8
402735074515401	Passaic Formation	Agricultural	Ca/Mg-HCO ₃	4.0	2.4	1	2	None	175	8
403452074463301	Passaic Formation	Agricultural	Ca/Mg-HCO ₃	5.7	4.0	1	2	None	175	8
403303074480601	Passaic Formation	Residential	Ca/Mg-HCO ₃	5.9	1.6	1	2	None	240	8
403326074444801	Passaic Formation	Residential	Calcium-bicarbonate	7.3	2.9	1	2	Trichloroethylene	175	8
403722075020201	Passaic Formation	Residential	Calcium-chloride	7.8	3.0	None	2	None	200	11
401658074505001	Passaic Formation	Residential	Ca/Mg-HCO ₃	4.4	.78	5	9	None	125	11
401824074522801	Passaic Formation	Residential	Calcium-bicarbonate	5.7	4.2	6	3	None	230	11
401852074523801	Passaic Formation	Residential	Ca/Mg-HCO ₃	4.0	1.0	None	None	None	200	11
402154074464801	Passaic Formation	Residential	Ca/Mg-HCO ₃	6.2	1.5	None	3	None	200	10
403717074385501	Passaic Formation	Residential	Ca/Mg-HCO ₃	2.7	.98	None	2	None	200	8
402643074342601	Passaic Formation	Residential	Ca/Mg-HCO ₃	6.0	4.6	2	3	None	150	10
403039074324901	Passaic Formation	Residential	Calcium-bicarbonate	5.6	.37	None	None	None	180	9
403423074453601	Passaic Formation	Undeveloped	Ca/Mg-HCO ₃	9.4	1.6	None	1	None	200	8
403611074570101	Lockatong Formation	Agricultural	Ca-HCO ₃ ; Na-SO ₄	8.0	7.0	2	9	None	200	8
401928074430801	Lockatong Formation	Residential	Ca/Mg-HCO ₃ ;	.2	.87	None	None	None	245	11
402613075005101	Lockatong Formation	Undeveloped	Calcium-bicarbonate	.2	<.05	No data	None	None	200	11
403828074290501	Preakness Basalt	Residential	Calcium-bicarbonate	4.0	1.9	1	None	None	150	9
403935074272601	Preakness Basalt	Residential	Ca/Mg-HCO ₃	8.3	.53	None	7	Trichloroethylene	185	6
404151074360001	Preakness Basalt	Undeveloped	Calcium-bicarbonate	4.1	3.6	None	2	None	250	8
402426074363901	Diabase	Agricultural	Calcium-bicarbonate	.2	<.05	None	None	None	150	10

¹ Land use based on observation at time of sampling.

² Includes compounds with estimated concentrations, defined as positive detections of a compound, but measured at less than the laboratory's minimum reporting levels.

³ MCLs are the maximum permissible levels of regulated contaminants allowed in public drinking water as specified by the Federal Safe Drinking Water Act regulations (40 CFR Parts 141, 142, 143) and the New Jersey Safe Drinking Water regulations (N.J.A. 7:10-1 et seq.).