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U.S. Geological Survey
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Table 3.—Candidate wells for inclusion in MPCA statewide network to monitor ground-water quality

SITE LOCATION AND IDENTIFICATION								WELL CONSTRUCTION AND WATER USE									HYDROGEOLOGY			AVAILABLE DATA AND SOURCE					MONITORING NETWORK				REMARKS
Township and range site No.	Latitude and longitude site No. (STORET site No.)	Minnesota unique well No.	DNR permit application No.	U.S.G.S. Topographic quadrangle map	Land surface altitude	Watershed[1] unit	Owner or user	Date drilled	Depth of well	Depth to first perforation	Casing diameter (in.)	Finish[2]	Water level (ft below lsd)	Pump type[3]	Pumping rate (gal/min)	Use of water[4]	Aquifer	Uppermost bedrock unit	Drift thickness (ft)	Geologist's log or sample study	Driller's log	Water levels	Previous water quality analyses	Aquifer or well tests	Passage records	Point sampling	Point monitoring	Areal monitoring	Suggested schedules of characteristics for initial analysis (table 4)	Suggested initial frequency of sampling	
KANABEC																													
39N24W11DDD	455240093171001	215964	—	—	Mora North 7 1/2'	1008	Snake River	Land O'Lakes Creamery, Mora	1945	149	134	12	S	41	T	—	IN	Buried sand	Fond du Lac Formation	160(E)	—	X	—	—	—	—	X			I, II, IV	Once		—
40N24W01CDC	455838093164401	215965	69-6690	Mora North 7 1/2'	1052	Snake River	Carl Hohn-Gravel Co.	1969	194	84	12	OH	4	-	500	IN	Fond du Lac	do	78	—	X	—	—	—	—	X			do	do		—
KANDIYOHI																													
119N35W16DCA	450649095040401	—	—	—	1132	Minnesota River-Hawk Creek	City of Willmar #8	1966	205	160	30,12	S	30	U	600	PS	Buried sand	Precambrian, undifferentiated	250(E)	—	—	—	USGS	—	—	X			I, II, IV			QW 3/66
119N35W16DCA5	450649095035501	—	—	—	1132	Minnesota River-Hawk Creek	City of Willmar #7	1961	349	334	10	S	U	U	300	PS	Buried sand	do	250(E)	—	X	—	USGS	—	—	X			do			QW 5/68
122N33W21CDD	452120094500701	136871	—	Hawick 7 1/2'	1246	Crow River	Donald Sonstegard	1978	244	209	12	S	41	-	750	IR	Buried sand	do	250(E)	—	X	—	—	—	—	X			do		—	
122N35W13ACC	452240095005501	215940	—	Belgrade	1240	Crow River	Herbert Zilmer	—	20	—	1 1/2	SP	15	-	—	D	—	do	250(E)	—	—	—	—	—	—	X			do			QW 2/68
KITTSON																													
159N48W14AAD	483556096480901	215948	—	Kennedy SE 7 1/2'	862	Middle River	Davis Township	—	16	—	48	OE	—	N	—	D,U	Surficial sand	Winnipeg Formation	250(E)	—	X	USGS	—	—	—	X			I, II, III, IV	Once		QW 6/55
160N47W12ACC	484147096393002	101692	—	Karlstad 15'	960	Middle River	Roger Thompson	1977	190	182	4,3	S	2	U	70	D	Buried sand	do	350(E)	—	X	—	—	—	—	X			I, II, IV	do		Pumping test 8/58
161N49W13BCD	484606096565201	215966	—	Hallock 7 1/2'	815	Two Rivers	USGS	1972	529	504	5,2	S	F	N	1	O	Winnipeg	Hallock Red Beds	215	X	X	USGS	USGS	—	—	X			do	do		WL 1972; QW 10/72
162N48W13ADB	485127096470901	215967	—	Lancaster 7 1/2'	908	Two Rivers	Blue Valley Creamery	1927	300	U	6	U	—	T	200	I	Hallock Red Beds	do	240	—	X	—	USGS	—	—	X			do	do		QW 5/54
KOOCHICHING																													
159N25W23BCC	483442093490001	130196	—	Lomma 7 1/2'	1100	Lake of the Woods	Richard Reed	1975	190	190	10	OE	+10	U	150	D	Buried sand	Precambrian, undifferentiated	215(E)	—	X	—	—	—	—	X			I, II, IV	Once		—
LAC QUI PARLE																													
116N46W13DCA	445106096203801	132244	78-404	Gary SE 7 1/2'	1155	Lac qui Parle River	Charles Hansen	1977	208	180	16,12	S	24	U	1000	IR	Buried sand	Precambrian, undifferentiated	215(E)	—	X	—	—	—	—	X			I, II, IV	Once		—
116N46W14DAD	445114096213801	132250	—	Gary SE 7 1/2'	1160	Lac qui Parle River	Charles Hansen	1977	108	88	16,12	S	21	U	750	IR	Surficial sand	do	215(E)	—	X	—	—	—	—	X			I, II, III, IV	do		—
LAKE																													
54N09W27BBB	470826091281801	216003	—	Split Rock Point 7 1/2'	719	Lake Superior	Gooseberry Falls Park	1957	400	21	6	OH	46	-	5	PS	Precambrian basalt	Precambrian, undifferentiated	2	—	X	—	USGS	USGS	—	X			I, II, IV	Once		QW 5/57; pumping test 1957
59N06W22CCC	473425091050401	216004	—	Cramer 15'	1635	Lake Superior	Forestry Service-Nine Mile Lake	1964	40	17	6	S	5	C	100	PS	Surficial sand	do	75(E)	—	X	—	—	—	—	X			do	do		—
63N11W16ADA	475638091434401	216005	—	Gabbro Lake 15'	1328	Rainy Lake	Forestry Service-Fall Lake	1972	355	—	3	OH	35	S	14	PS	Precambrian rock	do	48	—	X	—	—	—	—	X			do	do		—
64N09W31BCA	475839091321201	216006	—	Gabbro Lake 15'	1342	Rainy Lake	Oral Bennett	1962	24	20	4	SP	10	-	—	C	Surficial sand	do	75(E)	—	X	—	USGS	—	—	X			do	do		QW 7/72
LINCOLN																													
110N44W33CDC	441711096084501	216010	—	Tyler 7 1/2'	1738	Redwood River	City of Tyler	1970	230	200	12	S	73	T	250	D,S	Buried sand	Precambrian, undifferentiated	300(E)	—	X	—	—	—	—	X			I, II, IV	Once		QW 7/66
113N44W19BAC	443458096123201	215968	—	Porter SW 7 1/2'	1373	Yellow Medicine River	Berton Jacobsen	1966	130	130	6	-	flow	U	20	PS	Buried sand	do	200(E)	X	X	—	USGS	—	—	X			do	do		—
LYON																													
109N40W23ABA	441420095371301	216007	—	Tracy East 7 1/2'	1385	Cottonwood River	NSP Company	1954	632	594	12,8	S	230	T	350	PS	Cretaceous sandstone	Cretaceous Sandstone	195	X	X	—	—	—	—	X			I, II, IV	Once		QW 8/57
MAHNOMEN																													
143N42W19AAA	471139096023301	147258	—	Flom 7 1/2'	1255	Wild Rice River	Olaf Hougo	1978	267	261	4	S	52	-	150	D	Buried sand	Precambrian, undifferentiated	350(E)	—	X	—	—	—	—	X			I, II, IV	Once		—
MARSHALL																													
155N45W04ACC	481640096264201	105630	—	Newfolden 15'	1054	Middle River	Rueben Rabenhorst	1977	171	163	4	S	+1	-	120	D	Buried sand	Precambrian, undifferentiated	400(E)	—	X	—	—	—	—	X			I, II, IV	Once		—
155N47W11AAA2	481603096391602	215943	—	Florian 15'	905	Middle River	City of Marshall	1956	110	69	8	S	7	T	225	U	Surficial sand	do	250(E)	—	X	—	USGS	USGS	—	X			do	do		QW 10/56; pumping test 10/56
155N47W11AAA4	481603096391604	215969	—	Florian 15'	907	Middle River	City of Warren	1958	107	77	20,10	S	9	T	250	PS	Buried sand	do	250(E)	X	X	—	—	—	—	X			do	do		—
157N39W30BDD	482244095432001	128419	—	Ramdeen Ridge 7 1/2'	1177	Red Lake River	Guy Johnson	1977	225	217	4	S	20	S	180	D	Buried sand	do	250(E)	—	X	—	—	—	—	X			do	do		—
MARTIN																													
101N33W04ADD	433456094474001	102847	—	Dunnell 7 1/2'	1325	Des Moines River	Roger Swanson	1977	297	275	6	S	154	S	150	D	Cretaceous sandstone	Cretaceous Sandstone	258	—	X	—	—	—	—	X			I, II, IV	Once		—
102N30W05DCD	433933094275501	215972	—	Fairmont 7 1/2'	1190	Blue Earth River	Stokely Van Camp Inc.	1958	281	251	12	S	70	T	1250	IN	Buried sand	do	250(E)	—	X	—	—	—	—	X			do	do		—
102N30W17BDD	433821094273501	144122	—	Fairmont 7 1/2'	1170	Blue Earth River	City of Fairmont	1977	296	184	12,8	S	53	N	870	PS	Cretaceous sandstone	do	190	—	X	—	—	—	—	X			do	do		—
MC LEOD																													
115N28W11ADD	444704094090801	215849	71-1132G	Glencoe 15'	1020	Crow River	McLeod Co. Highway Dept.	1971	500	446	5	OH	143	S	30	D	Mount Simon-Hinckley	Franconia Formation	290	—	X	USGS	USGS	—	—	X			I, II, IV	Once		WL OBS 1972-77, QW 7/74
115N28W13CAC2	444555094084502	215976	—	Glencoe 15'	1000	Crow River	Glencoe Butter & Produce	1956	553	423	12,10	OH	121	T	300	IN	Mount Simon-Hinckley	do	300(E)	—	X	—	—	—	—	X			do	do		—
115N28W14CAA	444603094092801	215977	61-882	Glencoe 15'	1012	Crow River	Green Giant No. 1	1962	291	192	14,10	S	59	-	660	IN	Buried sand	do	300(E)	—	X	—	—	—	—	X			do	do		—
116N29W19BAC	445045094221201	215978	—	Hutchinson 15'	1050	Crow River	A. B. Bishman	1951	296	276	10	S	15	T	600	IR	Buried sand	Precambrian, undifferentiated	400(E)	—	X	—	—	—	—	X			do	do		—
117N29W31BDD	445402094224201	215979	—	Hutchinson 15'	1080	Crow River	Hutchinson Creamery	1966	406	335	16,8	S	9	T	750	IN	Buried sand	do	434	—	X	—	—	—	—	X			do	do		—
MEEKER																													
119N30W28DCC	450545094265401	136823	—	Dassel 15'	1120	Crow Creek	Gordon Grannes	1977	135	105	12	S	36	-	450	IR	Surficial sand	Precambrian, undifferentiated	350(E)	—	X	—	—	—	DNR	X			I, II, III, IV	Once		—
119N31W21AAC	450627094335701	105565	77-4157	Litchfield Sq. 7 1/2'	1160	Crow Creek	Frank Sabacky	1977	234	178	12	S	29	-	500	IR	Buried sand	do	400(E)	—	X	—	—	DNR	DNR	X			I, II, IV	do		Pumping test 12/77
121N32W35ADA	451457094395401	124236	—	Grove City 7 1/2'	1180	Crow Creek	Kenneth Bergren	1976	101	89	12	S	8	-	250	IR	Buried sand	do	300(E)	—	X	—	—	—	DNR	X			do	do		—
MILLE LACS																													
40N27W25CAD	455536093391601	215970	—	Bock NW 7 1/2'	1220	Rum River	Howard Knapp	1961	100	80	4	OH	30	-	12	D,S	Fond du Lac	Fond du Lac Formation	90	—	X	—	USGS	—	—	X			I, II, IV	Once		QW 7/70
42N27W10ADD	460816093432901	215971	—	Onamia NW 7 1/2'	1290	Rum River	Kathlo State Park-MN	1962	128	113	4	S	27	S	50	PS	Buried sand	Precambrian, undifferentiated	128	—	X	—	USGS	USGS	—	X			do	do		QW 7/70; pumping test 7/70?
MORRISON																													
039N32W26ABC	455055094173001	215871	—	Little Falls 15'	1105	Mississippi-Sauk	Marvin Schlicting	1963	61	57	4	S	30	-	12	D,S	Surficial sand	Precambrian, undifferentiated	100(E)	—	X	—	USGS	—	—		X		I, II, III, IV, V	Twice annually, every 3 years	QW 4/70	Point of Collection
039N31W23ADD	455135094092501	215880	—	Pierz 15'	1104	Mississippi-Sauk	Henry Kelzenberg	—	12	12	36	W	7	-	4	D,S	Surficial sand	crystalline rock	100(E)	—	—	—	USGS	—	—		X		do	do	QW 4/70	
040N31W26DCA	455545094095000	215872	—	Pierz 15'	1118	Mississippi-Sauk	Martin Tschida	1959	24	24	36	W	14	-	6	S	Surficial sand	do	100(E)	—	X	—	USGS	—	—		X		do	do	QW 7/73	Barn tap
040N31W32CCC	455445094142501	215873	—	Pierz 15'	1108	Mississippi-Sauk	Arthur Blomker	—	12	10	1 1/4	SP	6	-	—	D	Surficial sand	do	150(E)	—	X	—	USGS	—	—		X		do	do	QW 4/70	Hydrant at well
040N32W29CBB	455555094215501	215874	—	Little Falls 15'	1110	Mississippi-Sauk	Adolf Smieja	—	14	11	—	SP	7	-	—	S	Surficial sand	do	150(E)	—	—	—	USGS	—	—		X		do	do	QW 4/70	Kitchen tap
041N30W35CCC	455905094050501	215875	—	Pierz 15'	1162	Mississippi-Sauk	John Duschnar	—	18	15	1 1/4	SP	13	-	15	D,S	Surficial sand	do	50(E)	—	X	—	USGS	—	—		X		do	do	QW 4/70	Faucet in barn
041N31W36AAA	455945094112001	215876	—	Pierz 15'	1147	Mississippi-Sauk	Carl Varnig	—	45	40	—	—	22	-	—	D,S	Surficial sand	do	—	—	X	—	USGS	—	—		X		do	do	QW 4/70	At well
042N32W14BBC	460728094211501	215877	—	Bell Prairie 15'	1152	Mississippi-Sauk	City of Little Falls #4	1952	100	—	24,12	S	20	T	505	PS	Surficial sand	do	50(E)	—	—	—	USGS	—	—		X		do	do	QW 4/70	At well (hand pump)
041N32W34DDC	455905094213501	215881	—	Little Falls 15'	1110	Mississippi-Sauk	Walter Holz	—	30	28	36	SP	10	P	6	D	Surficial sand	do	100(E)	—	—	—	USGS	—	DNR		X		do	do	QW 4/70	Milk house tap
127N29W27BAD	454715094192501	215878	—	Little Falls 15'	1058	Mississippi-Sauk	Aloysius Sobiech	1958	68	64	5	S	34	-	—	D,S	Surficial sand	do	100(E)	—	X	—	USGS	—	—		X		do	do	QW 9/72	Hydrant at well
127N30W13BBB	454905094243001	216125	—	Little Falls 15'	1112	Mississippi-Sauk	Roman Klisch	1966	16	12	3	SP	6	-	—	IN	Surficial sand	do	100(E)	—	X	—	USGS	—	—		X		do	do	QW 8/70	Outside tap
130N27W15CCC	460355094221001	215879	—	Ball Prairie 15'	1128	Mississippi-Sauk	Paul Bollig	1958	21	18	1 1/2	SP	13	-	6	D	Surficial sand	do	100(E)	—	X	—	USGS	—	—		X		do	do	QW 8/70	Kitchen tap
MOWER																													
101N18W30BBA	433118092305701	215844	—	LeRoy 7 1/2'	1285	Cedar	Don Hanson	1974	104	62	5	OH	22	-	14	D	Cedar Valley	Cedar Valley Limestone	5	X	—	—	—	—	—			X	I, II, III, IV	When sampling springs		—
101N19W29BDD	433120098322701	215845	—	LeRoy 7 1/2'	1285	Cedar	Waldo Bucknell	1974	90	69	5	OH	17	-	12	D	Cedar Valley	do	24	X	—	—	—	—	—			X	do	do		—
101N19W13CBB	433303092351801	101357	—	LeRoy 7 1/2'	1320	Cedar	Don Adams	1975	95	87	5	OH	10	-	12	D	Cedar Valley	do	67	X	—	—	—	—	—			X	do	do		—
101N19W36BBA	433050092350001	215846	—	LeRoy 7 1/2'	1365	Cedar	Herman Miller	1974	123	111	5	OH	65	-	12	D	Cedar Valley	Cretaceous Sandstone	100	X	—	—	—	—	—			X	do	do		—
101N16W13B	433325092432001	101360	—	Adams 7 1/2'	1300	Cedar	Herbert Landherr	1976	79	—	—	OH	5	-	—	—	Cedar Valley	Cedar Valley Limestone	58	X	—	—	—	—	—			X	do	do		—
102N18W10DAA	—	—	50-009	Austin 15'	1195	Cedar	City of Austin #7	1957	558	505	12,8	S	197	S	600	PS	St. Peter	do	—	—	—	—	—	—	—			X	do	do		—
103N18W26DCC	—	—	—	Austin 15'	1205	Cedar	City of Austin #10	1947	112	71	24,20	OH	14	T	1500	PS	Cedar Valley-Maquoketa-Dubuque-Galena	do	—	—	—	—	USGS	—	—			X	do	do	QW 12/70	
MURRAY																													
105N40W12ABC	435504095353301	215973	—	Lime Creek 7 1/2'	1523	Des Moines River	Earl Storm	1964	348	290	5	OH	95	P	4	U	Sioux quartzite	Sioux Quartzite	290	—	X	—	—	—	—	X			I, II, IV	Once		—
107N40W25ADC	440240095351001	215974	—	Dovray 7 1/2'	1520	Des Moines River	Dale Vosberg	1973	384	376	5	S	140	-	75	U	Buried sand	Cretaceous Sandstone	400(E)	—	X	—	—	—	—	X			do	do		—
NOBLES																													
101N40W04AAD	433506095380301	215980	—	Bigelow 7 1/2'	1585	Rock River	City of Worthington #14	1953	36	31	—	S	2	-	200	PS	Surficial sand	Cretaceous Sandstone	350(E)	—	X	—	—	—	—	X			I, II, IV	Once		QW 9/70
102N40W23CBBA	433655095314504	215981	—	Worthington S. 7 1/2'	1579	Rock River	City of Worthington #9	1931	37	32	40,26	S	27	T	250	PS	Surficial sand	do	350(E)	—	X	—	—	—	—	X			do	do		—
102N40W25BBB2	433657095353102	215982	—	Worthington S. 7 1/2'	1572	Rock River	City of Worthington #22	1957	59	53	24,12	S	32	T	500	PS	Surficial sand	do	350(E)	—	X	—	—	—	—	X			do	do	QW 6/58	
102N40W33ABA3	433606095381803	215983	—	Worthington S. 7 1/2'	1615	Rock River	City of Worthington #10A	1959	158	1512	—	S	—	T	—	PS	Buried sand	do	400(E)	—	X	—	—	—	—	X			do	do		—
102N42W13BBB	433841095495701	215984	—	Adrian NE 7 1/2'	1670	Rock River	Rushmore Pig Farm	1968	615	600	6,5	S	430	-	50	D,S	Cretaceous sandstone	do	215	—	X	—	—	—	—	X			do	do		—
NORMAN																													
143N46W33DDD	470909096301101	138884	—	Borup 7 1/2'	910	Wild Rice River	Art Jenson	1977	162	157	4	S	12	S	200+	D	Buried sand	Precambrian, undifferentiated	250(E)	—	X	—	—	—	—	X			I, II, IV	Once		QW 8/67; pumping test 6/54, 6/50
144N46W22ADA	471639096435801	130591	—	Anthony 7 1/2'	878	Wild Rice River	Dwight Yargason	1977	302	296	4	S	19	-	225	D	Buried sand	do	350(E)	—	X	—	—	—	—	X			do	do		QW 10/53; pumping test 10/53
145N45W22A	472200096221501	140712	—	Twin Valley 7 1/2'	1000	Wild Rice River	Sid Jackson	1977	198	188	4,3	S	23	S	90	IN	Buried sand	do	250(E)	—	X	—	—	—	—	X			do	do		Pumping test 8/54
OLMSTED																													
106N14W01BBB5	440113092271905	215809	62-0180	Rochester 7 1/2'	995	Zumbro	Rochester No. 5	1935	450	52	16	OH	20	T	300	PS	Prairie du Chien-Jordan	Prairie du Chien Group	52	—	—	City	MDH	—	DNR			X	I, II, III, IV	Annually		—
106N14W02CAA	440047092281101	215810	62-0180	Rochester 7 1/2'	1001	Zumbro	Rochester No. 11	1948	455	140	20	OH	19	T	1100	PS	Prairie du Chien-Jordan	St. Peter Sandstone	7	—	X	City	MDH	—	DNR			X	do	do		—
107N14W26DAD	440226092273301	215811	62-0180	Rochester 7 1/2'	1015	Zumbro	Rochester No. 13	1954	442	138	20	OH	40	T	1000	PS	Prairie du Chien-Jordan	Prairie du Chien Group	6	X	X	City	MDH	—	DNR			X	do	do		—
107N14W36BCB	440151092272501	215812	62-0180	Rochester 7 1/2'	990	Zumbro	Rochester No. 12	1949	752	307	14	OH	42	T	500	PS	Jordan-Ironton-Galesville	do	71	—	X	City	MDH	—	DNR			X	do	do		Well reconstructed 2/24/60, original depth 752 ft

[1]From U.S. Geological Survey Hydrologic Investigations Atlas Series; [2]OE = open end, OH = open hole, S = screen, SP = sand point, W = walled or tile; [3]C = centrifugal, J = jet, P = piston, S = submersible, T = turbine, U = unknown; [4]A = air conditioning, C = commercial, D = domestic, IN = industrial, IR = irrigation, PS = public supply, S = stock, U = unused.