442541093142201 Local number PDCJ-U20 111N20W16 BBBB 0000236844

Cambrian-Ordovician aquifer system
Prairie Du Chien Group

Rice County, MN

LOCATION.--Lat 44°25′41″, long 93°14′22″ referenced to North American Datum of 1983, in NW ¼ NW ¼ NW ¼ sec.16, T.111 N., R.20 W., Rice County, MN, Hydrologic Unit 07040002.

WATER-QUALITY RECORDS

WELL CHARACTERISTICS.--Depth 115 ft. Upper casing diameter 5 in, top of first opening 86 ft, bottom of last opening 115 ft. Located to the southwest of Northfield.

DATUM.--Land-surface datum is 997 ft above North American Vertical Datum of 1988. Measuring point: MP is top of well casing, distance above land-surface datum not defined, May 23, 2007, to present.

PERIOD OF RECORD.--Samples collected periodically May 2007 to present.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 18

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Time	Sample type	Depth of well, feet below LSD (72008)	Altitude of land surface feet (72000)	Flow rate, instantaneous gal/min (00059)	Pump or flow period prior to sampling, minutes (72004)	Turbidity, water, unfltrd field, NTU (61028)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	pH, water, unfltrd lab, std units (00403)
May 23...	1000	Environmental	115	997	.38	57	.2	733	.2	2	7.4	7.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 18

[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Specif. conductance, wat unf lab, µS/cm 25 degC (90095)	Specific conductance, wat unf µS/cm 25 degC (00095)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Bromide water, fltrd, mg/L (71870)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
May 23...	597	593	23.0	13.0	81.0	29.1	1.09	5.16	305	375	.03	3.52	.24

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 3 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia water, fltrd, mg/L as N (00608)	Nitrate + nitrite water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Colipge F-spec, FAMP, 2-step, pres or absence /L (99335)	Colipge som, Ec CN13hst 2-step, pres or absence /L (99332)	E coli, MI MF, water, col/ 100 mL (90901)	Total coli-form, MI MF, water, col/ 100 mL (90900)
May													
23...	23.7	19.1	365	.131	<.06	E.001	.19	.065	1.6	U	U	<1	<1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 4 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Alum-inum, water, fltrd, µg/L (01106)	Anti-mony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryll-ium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	Chrom-ium, water, fltrd, µg/L (01030)	Cobalt water, fltrd, µg/L (01035)	Copper, water, fltrd, µg/L (01040)	Iron, water, fltrd, µg/L (01046)	Lead, water, fltrd, µg/L (01049)	Lithium water, fltrd, µg/L (01130)
May													
23...	<1.6	<.06	.33	254	<.06	21	<.04	<.12	E.02	<.40	3,230	<.12	7.3

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 5 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Mangan-ese, water, fltrd, µg/L (01056)	Molyb-denum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Selen-ium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Stront-ium, water, fltrd, µg/L (01080)	Thall-ium, water, fltrd, µg/L (01057)	Vanad-ium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	1-Naph-thol, water, fltrd 0.7u GF µg/L (49295)	2,6-Di-ethyl-aniline water, fltrd 0.7u GF µg/L (82660)	2Chloro -2',6'-diethyl acet-anilide wat flt µg/L (61618)	ClAT, water, fltrd, µg/L (04040)
May													
23...	147	1.2	.08	E.05	<.1	126	<.04	E.03	1.9	<.09	<.006	<.006	<.014

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 6 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	2-Ethyl -6- methyl- aniline water, fltrd, µg/L (61620)	3,4-Di- chloro- aniline water, fltrd, µg/L (61625)	3,5-Di- chloro- aniline water, fltrd, µg/L (61627)	4- Chloro- 2methyl phenol, water, fltrd, µg/L (61633)	Aceto- chlor, water, fltrd, µg/L (49260)	Ala- chlor, water, fltrd, µg/L (46342)	alpha- Endo- sulfan, water, fltrd, µg/L (34362)	alpha- HCH-d6, surrog, Sch2003 wat flt percent recovry (99995)	Atra- zine, water, fltrd, µg/L (39632)	Azin- phos- methyl oxon, water, fltrd, µg/L (61635)	Azin- phos- methyl, water, fltrd 0.7u GF µg/L (82686)	Ben- flur- alin, water, fltrd 0.7u GF µg/L (82673)	Car- baryl, water, fltrd 0.7u GF µg/L (82680)
May 23...	<.010	<.004	<.012	<.005	<.006	<.005	<.011	85.2	<.007	<.04	<.080	<.010	<.060

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 7 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Carbo- furan, water, fltrd 0.7u GF µg/L (82674)	Chlor- pyrifos oxon, water, fltrd, µg/L (61636)	Chlor- pyrifos water, fltrd, µg/L (38933)	cis- Per- methrin water fltrd 0.7u GF µg/L (82687)	cis- Propi- cona- zole, water, fltrd, µg/L (79846)	Cyana- zine, water, fltrd, µg/L (04041)	Cyflu- thrin, water, fltrd, µg/L (61585)	lambda- Cyhalo- thrin, water, fltrd, µg/L (61595)	Cyper- methrin water, fltrd, µg/L (61586)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulf- inyl- fipro- nil, water, fltrd, µg/L (62170)	Diazi- non, water, fltrd, µg/L (39572)	Diazi- non-d10 surrog, Sch2003 wat flt percent recovry (99994)
May 23...	<.020	<.06	<.005	<.010	<.013	<.018	<.053	<.014	<.046	<.003	<.012	<.005	98.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 8 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Dicro- tophos, water, fltrd, µg/L (38454)	Diel- drin, water, fltrd, µg/L (39381)	Dimeth- oate, water, fltrd 0.7u GF µg/L (82662)	Disulf- oton sulfone water, fltrd, µg/L (61640)	Disul- foton, water, fltrd 0.7u GF µg/L (82677)	Endo- sulfan sulfate water, fltrd, µg/L (61590)	EPTC, water, fltrd 0.7u GF µg/L (82668)	Ethion monoxon water, fltrd, µg/L (61644)	Ethion, water, fltrd, µg/L (82346)	Etho- prop, water, fltrd 0.7u GF µg/L (82672)	Fenami- phos sulfone water, fltrd, µg/L (61645)	Fenami- phos sulf- oxide, water, fltrd, µg/L (61646)	Fenami- phos, water, fltrd, µg/L (61591)
May 23...	<.08	<.009	<.006	<.01	<.02	<.022	<.002	<.02	<.016	<.012	<.053	<.04	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 9 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Desulfinyl-fipronil amide, wat flt µg/L (62169)	Fipronil sulfide water, fltrd, µg/L (62167)	Fipronil sulfone water, fltrd, µg/L (62168)	Fipronil, water, fltrd, µg/L (62166)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Iprodione, water, fltrd, µg/L (61593)	Isofenphos, water, fltrd, µg/L (61594)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)	Metalaxyl, water, fltrd, µg/L (61596)	Methialthion water, fltrd, µg/L (61598)	Methyl paraoxon, water, fltrd, µg/L (61664)
May													
23...	<.029	<.013	<.024	<.016	<.006	<.026	<.026	<.011	<.039	<.016	<.007	<.009	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 10 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Methyl parathion, water, fltrd 0.7u GF µg/L (82667)	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Molinate, water, fltrd 0.7u GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd 0.7u GF µg/L (82683)	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7u GF µg/L (82664)	Phosmet water, fltrd, µg/L (61601)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propyzamide, water, fltrd 0.7u GF µg/L (82676)
May													
23...	<.008	<.010	<.012	<.003	<.033	<.017	<.020	<.03	<.020	<.008	<.01	<.006	<.004

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 11 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Propanil, water, fltrd 0.7u GF µg/L (82679)	Propargite, water, fltrd 0.7u GF µg/L (82685)	Simazine, water, fltrd, µg/L (04035)	Tebuthiuron water, fltrd 0.7u GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbufos oxon sulfone water, fltrd, µg/L (61674)	Terbufos, water, fltrd 0.7u GF µg/L (82675)	Terbuthylazine, water, fltrd, µg/L (04022)	Thiobencarb water, fltrd 0.7u GF µg/L (82681)	trans-Propiconazole, water, fltrd, µg/L (79847)	Tribuphos, water, fltrd, µg/L (61610)	Trifluralin, water, fltrd 0.7u GF µg/L (82661)	1,1,1,2-Tetrachloroethane, water, unfltrd µg/L (77562)
May													
23...	<.011	<.02	<.006	<.02	<.003	<.04	<.01	<.01	<.010	<.03	<.035	<.009	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 12 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	1,1,1-Tri-chloro-ethane, water, unfltrd µg/L (34506)	1,1,2,2-Tetra-chloro-ethane, water, unfltrd µg/L (34516)	CFC-113 water, unfltrd µg/L (77652)	1,1,2-Tri-chloro-ethane, water, unfltrd µg/L (34511)	1,1-Di-chloro-ethane, water, unfltrd µg/L (34496)	1,1-Di-chloro-ethene, water, unfltrd µg/L (34501)	1,1-Di-chloro-propene water, unfltrd µg/L (77168)	1,2,3,4-Tetra-methyl-benzene water, unfltrd µg/L (49999)	1,2,3,5-Tetra-methyl-benzene water, unfltrd µg/L (50000)	1,2,3-Tri-chloro-benzene water, unfltrd µg/L (77613)	1,2,3-Tri-chloro-propane water, unfltrd µg/L (77443)	1,2,3-Tri-methyl-benzene water, unfltrd µg/L (77221)	1,2,4-Tri-chloro-benzene water, unfltrd µg/L (34551)
May													
23...	<.04	<.10	<.04	<.04	<.06	<.02	<.04	<.1	<.1	<.1	<.12	<.1	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 13 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	1,2,4-Tri-methyl-benzene water, unfltrd µg/L (77222)	Dibromo chloro-propane water, unfltrd µg/L (82625)	1,2-Di-bromo-ethane, water, unfltrd µg/L (77651)	1,2-Di-chloro-benzene water, unfltrd µg/L (34536)	1,2-Di-chloro-ethane, water, unfltrd µg/L (32103)	1,2-Di-chloro-ethane-d4, sur Sch2090 wat unf pct rcv (99832)	1,2-Di-chloro-propane water, unfltrd µg/L (34541)	1,3,5-Tri-methyl-benzene water, unfltrd µg/L (77226)	1,3-Di-chloro-benzene water, unfltrd µg/L (34566)	1,3-Di-chloro-propane water, unfltrd µg/L (77173)	1,4-Di-chloro-benzene water, unfltrd µg/L (34571)	14Bromo fluoro-benzene surrog. VOC Sch wat unf pct rcv (99834)	2,2-Di-chloro-propane water, unfltrd µg/L (77170)
May													
23...	<.04	<.5	<.04	<.04	<.1	123	<.02	<.04	<.04	<.1	<.04	73.8	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 14 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	2-Chloro-toluene water, unfltrd µg/L (77275)	2-Ethyl-toluene water, unfltrd µg/L (77220)	3-Chloro-propene water, unfltrd µg/L (78109)	4-Chloro-toluene water, unfltrd µg/L (77277)	4-Iso-propyl-toluene water, unfltrd µg/L (77356)	Acetone water, unfltrd µg/L (81552)	Acrylo-nitrile water, unfltrd µg/L (34215)	Benzene water, unfltrd µg/L (34030)	Bromo-benzene water, unfltrd µg/L (81555)	Bromo-chloro-methane water, unfltrd µg/L (77297)	Bromo-di-chloro-methane water, unfltrd µg/L (32101)	Bromo-ethene, water, unfltrd µg/L (50002)	Bromo-methane water, unfltrd µg/L (34413)
May													
23...	<.04	<.04	<.08	<.04	<.08	<6	<.4	<.02	<.02	<.06	<.04	<.1	<.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 15 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Carbon di-sulfide water, unfltrd µg/L (77041)	Chloro-benzene water, unfltrd µg/L (34301)	Chloro-ethane, water, unfltrd µg/L (34311)	Chloro-methane water, unfltrd µg/L (34418)	cis-1,2-Di-chloro-ethene, water, unfltrd µg/L (77093)	cis-1,3-Di-chloro-propene water, unfltrd µg/L (34704)	Di-bromo-chloro-methane water, unfltrd µg/L (32105)	Di-bromo-methane water, unfltrd µg/L (30217)	Di-chloro-di-fluoro-methane wat unf µg/L (34668)	Di-chloro-methane water, unfltrd µg/L (34423)	Di-ethyl ether, water, unfltrd µg/L (81576)	Diiso-propyl ether, water, unfltrd µg/L (81577)	Ethyl methac-rylate, water, unfltrd µg/L (73570)
May 23...	<.06	<.02	<.1	<.1	<.02	<.06	<.1	<.04	<.14	<.04	<.1	<.06	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 16 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Ethyl methyl ketone, water, unfltrd µg/L (81595)	Ethyl-benzene water, unfltrd µg/L (34371)	Hexa-chloro-buta-diene, water, unfltrd µg/L (39702)	Hexa-chloro-ethane, water, unfltrd µg/L (34396)	Iodo-methane water, unfltrd µg/L (77424)	Iso-butyl methyl ketone, water, unfltrd µg/L (78133)	Iso-propyl-benzene water, unfltrd µg/L (77223)	Methyl acrylo-nitrile water, unfltrd µg/L (81593)	Methyl acryl-ate, water, unfltrd µg/L (49991)	Methyl methac-rylate, water, unfltrd µg/L (81597)	Methyl tert-pentyl ether, water, unfltrd µg/L (50005)	meta- + para-Xylene, water, unfltrd µg/L (85795)	Naphth-alene, water, unfltrd µg/L (34696)
May 23...	<1.6	<.02	<.1	<.1	<.40	<.2	<.04	<.4	<.4	<.2	<.04	<.08	<.4

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 17 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Methyl n-butyl ketone, water, unfltrd µg/L (77103)	n-Butyl benzene water, unfltrd µg/L (77342)	n-propyl-benzene water, unfltrd µg/L (77224)	o-Xylene, water, unfltrd µg/L (77135)	sec-Butyl-benzene water, unfltrd µg/L (77350)	Styrene water, unfltrd µg/L (77128)	t-Butyl ethyl ether, water, unfltrd µg/L (50004)	Methyl t-butyl ether, water, unfltrd µg/L (78032)	tert-Butyl-benzene water, unfltrd µg/L (77353)	Tetra-chloro-ethene, water, unfltrd µg/L (34475)	Tetra-chloro-methane water, unfltrd µg/L (32102)	Tetra-hydro-furan, water, unfltrd µg/L (81607)	Toluene water, unfltrd µg/L (34010)
May 23...	<.4	<.1	<.04	<.04	<.04	<.04	<.04	<.1	<.08	<.04	<.08	<1	<.02

442541093142201 Local number PDCJ-U20 111N20W16 BBBB 0000236844—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 18 of 18
[Remark codes: <, less than; E, estimated; U, analyzed for but not detected.]

Date	Toluene -d8, surrog, Sch2090 wat unf percent recovry (99833)	trans-1,2-Dichloroethene, water, unfltrd µg/L (34546)	trans-1,3-Dichloropropene water, unfltrd µg/L (34699)	trans-1,4-Dichloro-2-butene, wat unf µg/L (73547)	Tribromomethane water, unfltrd µg/L (32104)	Trichloroethene, water, unfltrd µg/L (39180)	Trichlorofluoromethane water, unfltrd µg/L (34488)	Trichloromethane water, unfltrd µg/L (32106)	Vinyl chloride, water, unfltrd µg/L (39175)	Dichlorvos, water, fltrd, µg/L (38775)	Ra-226, water, fltrd, radon method pCi/L (09511)	Ra-228, water, fltrd, pCi/L (81366)	Uranium natural water, fltrd, µg/L (22703)
May													
23...	101	<.02	<.10	<.6	<.08	<.02	<.08	<.04	<.1	<.01	2.76	1.37	.06