413338091045601 Local number 78-02-16 ACA

Sand and gravel aquifers (glaciated regions)
Holocene Alluvium

Muscatine County, IA

LOCATION.--Lat 41°33'39.7", long 91°04'58.3" referenced to North American Datum of 1983, in NE ¼ SW ¼ NE ¼ sec.16, T.78 N., R.2 W., Muscatine County, IA, Hydrologic Unit 07080206.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--1998, 2007.

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 1 of 21

[Remark codes: <, less than; E, estimated.]

Date	Time	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Dis-solved oxygen, mg/L (00300)	pH, water, unfltrd field, std units (00400)	Specif-ic conduc-tance, wat unf µS/cm 25 degC (00095)	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)
Jul													
11...	1330	1.5	3.1	7.4	594	17.7	290	81.1	20.9	7.59	7.64	180	219

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Part 2 of 21

[Remark codes: <, less than; E, estimated.]

Date	Bromide water, fltrd, mg/L (71870)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	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)	Nitrite + nitrate 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)	Alum-inum, water, fltrd, µg/L (01106)
Jul													
11...	.05	21.3	.23	22.1	34.6	404	<.020	16.4	<.002	16.5	.092	.7	E.9

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 3 of 21
[Remark codes: <, less than; E, estimated.]

Date	Antimony, water, fltrd, µg/L (01095)	Arsenic water, fltrd, µg/L (01000)	Barium, water, fltrd, µg/L (01005)	Beryllium, water, fltrd, µg/L (01010)	Boron, water, fltrd, µg/L (01020)	Cadmium water, fltrd, µg/L (01025)	Chromium, 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)	Manganese, water, fltrd, µg/L (01056)
Jul													
11...	.08	.64	76	<.06	31	.05	.41	.05	.85	10	.34	3.7	3.5

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 4 of 21
[Remark codes: <, less than; E, estimated.]

Date	Molybdenum, water, fltrd, µg/L (01060)	Nickel, water, fltrd, µg/L (01065)	Selenium, water, fltrd, µg/L (01145)	Silver, water, fltrd, µg/L (01075)	Strontium, water, fltrd, µg/L (01080)	Thallium, water, fltrd, µg/L (01057)	Vanadium, water, fltrd, µg/L (01085)	Zinc, water, fltrd, µg/L (01090)	1-Naphthol, water, fltrd 0.7u GF µg/L (49295)	2,4-D methyl ester, water, fltrd, µg/L (50470)	2,4-D, water, fltrd, µg/L (39732)	2,4-DB, water, fltrd 0.7u GF µg/L (38746)	2,6-Diethylaniline water, fltrd 0.7u GF µg/L (82660)
Jul													
11...	.3	.39	.59	<.1	185	<.04	.20	58.4	<.09	<.200	<.04	<.02	<.006

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 5 of 21
[Remark codes: <, less than; E, estimated.]

Date	2Chloro-2',6'-diethyl acetanilide wat flt µg/L (61618)	CIAT, water, fltrd, µg/L (04040)	CEAT, water, fltrd, µg/L (04038)	2-Ethyl-6-methylaniline water, fltrd, µg/L (61620)	OIET, water, fltrd, µg/L (50355)	3,4-Dichloroaniline water, fltrd, µg/L (61625)	3,5-Dichloroaniline water, fltrd, µg/L (61627)	3-Hydroxy carbofuran, wat flt 0.7u GF µg/L (49308)	4-Chloro-2methyl phenol, water, fltrd, µg/L (61633)	Acetochlor, water, fltrd, µg/L (49260)	Acifluorfen, water, fltrd 0.7u GF µg/L (49315)	Alachlor, water, fltrd, µg/L (46342)	Aldicarb sulfone water, fltrd 0.7u GF µg/L (49313)
Jul													
11...	<.006	E.019	<.08	<.010	<.080	<.004	<.012	<.020	<.005	<.006	<.060	<.005	<.08

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 6 of 21
[Remark codes: <, less than; E, estimated.]

Date	Aldicarb sulfoxide, wat flt 0.7u GF µg/L (49314)	Aldicarb, water, fltrd 0.7u GF µg/L (49312)	alpha-Endosulfan, water, fltrd, µg/L (34362)	Atrazine, water, fltrd, µg/L (39632)	Azinphos-methyl oxon, water, fltrd, µg/L (61635)	Azinphos-methyl, water, fltrd 0.7u GF µg/L (82686)	Bendiocarb, water, fltrd, µg/L (50299)	Benfluralin, water, fltrd 0.7u GF µg/L (82673)	Benomyl water, fltrd, µg/L (50300)	Bensulfuron-methyl, water, fltrd, µg/L (61693)	Bentazon, water, fltrd 0.7u GF µg/L (38711)	Bromacil, water, fltrd, µg/L (04029)	Bromoxynil, water, fltrd 0.7u GF µg/L (49311)
Jul													
11...	<.040	<.04	<.011	E.007	<.04	<.080	<.04	<.010	<.020	<.06	<.02	<.04	<.12

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 7 of 21
[Remark codes: <, less than; E, estimated.]

Date	Caffeine, water, fltrd, µg/L (50305)	Carbaryl, water, fltrd 0.7u GF µg/L (49310)	Carbaryl, water, fltrd 0.7u GF µg/L (82680)	Carbofuran, water, fltrd 0.7u GF µg/L (49309)	Carbofuran, water, fltrd 0.7u GF µg/L (82674)	Chloramben methyl ester, water, fltrd, µg/L (61188)	Chlorimuron, water, fltrd, µg/L (50306)	Chlorpyrifos oxon, water, fltrd, µg/L (61636)	Chlorpyrifos water, fltrd, µg/L (38933)	cis-Permethrin water fltrd 0.7u GF µg/L (82687)	cis-Propiconazole, water, fltrd, µg/L (79846)	Clopyralid, water, fltrd 0.7u GF µg/L (49305)	Cyanazine, water, fltrd, µg/L (04041)
Jul													
11...	<.040	<.02	<.060	<.060	<.020	<.10	<.080	<.06	<.005	<.010	<.013	<.06	<.018

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 8 of 21
[Remark codes: <, less than; E, estimated.]

Date	Cycloate, water, fltrd, µg/L (04031)	Cyfluthrin, water, fltrd, µg/L (61585)	lambda-Cyhalothrin, water, fltrd, µg/L (61595)	Cypermethrin water, fltrd, µg/L (61586)	Dacthal mono-acid, water, fltrd 0.7u GF µg/L (49304)	DCPA, water, fltrd 0.7u GF µg/L (82682)	Desulfinylfipronil, water, fltrd, µg/L (62170)	Diazinon, water, fltrd, µg/L (39572)	Dicamba water, fltrd 0.7u GF µg/L (38442)	Dichlorprop, water, fltrd 0.7u GF µg/L (49302)	Dicrotophos, water, fltrd, µg/L (38454)	Dieldrin, water, fltrd, µg/L (39381)	Dimethoate, water, fltrd 0.7u GF µg/L (82662)
Jul													
11...	<.06	<.053	<.014	<.046	<.02	<.003	<.012	<.005	<.08	<.04	<.08	<.009	<.006

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 9 of 21
[Remark codes: <, less than; E, estimated.]

Date	Dinoseb water, fltrd 0.7u GF µg/L (49301)	Diphenamid, water, fltrd, µg/L (04033)	Disulfoton sulfone water, fltrd, µg/L (61640)	Disulfoton, water, fltrd 0.7u GF µg/L (82677)	Diuron, water, fltrd 0.7u GF µg/L (49300)	Endosulfan 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)	Ethoprop, water, fltrd 0.7u GF µg/L (82672)	Fenamiphos sulfone water, fltrd, µg/L (61645)	Fenamiphos sulfoxide, water, fltrd, µg/L (61646)	Fenamiphos, water, fltrd, µg/L (61591)
Jul													
11...	<.04	<.04	<.01	<.02	<.04	<.022	<.002	<.02	<.016	<.012	<.053	<.04	<.03

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 10 of 21
[Remark codes: <, less than; E, estimated.]

Date	Fenuron water, fltrd 0.7u GF µg/L (49297)	Desulfinylfipronil 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)	Flumetsulam, water, fltrd, µg/L (61694)	Fluometuron water, fltrd 0.7u GF µg/L (38811)	Fonofos water, fltrd, µg/L (04095)	Hexazinone, water, fltrd, µg/L (04025)	Imazaquin, water, fltrd, µg/L (50356)	Imazethapyr, water, fltrd, µg/L (50407)	Imidacloprid water, fltrd, µg/L (61695)	Iprodione, water, fltrd, µg/L (61593)
Jul													
11...	<.04	<.029	<.013	<.024	<.016	<.06	<.04	<.006	<.026	<.04	<.04	<.060	<.026

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 11 of 21
[Remark codes: <, less than; E, estimated.]

Date	Isofenphos, water, fltrd, µg/L (61594)	Linuron water, fltrd 0.7u GF µg/L (38478)	Malaoxon, water, fltrd, µg/L (61652)	Malathion, water, fltrd, µg/L (39532)	MCPA, water, fltrd 0.7u GF µg/L (38482)	MCPB, water, fltrd 0.7u GF µg/L (38487)	Metalaxyl, water, fltrd, µg/L (50359)	Metalaxyl, water, fltrd, µg/L (61596)	Methialthion water, fltrd, µg/L (61598)	Methiocarb, water, fltrd 0.7u GF µg/L (38501)	Methomyl, water, fltrd 0.7u GF µg/L (49296)	Methyl paraoxon, water, fltrd, µg/L (61664)	Methyl parathion, water, fltrd 0.7u GF µg/L (82667)
Jul													
11...	<.011	<.04	<.039	<.016	<.06	<.20	<.04	<.007	<.009	<.040	<.060	<.02	<.008

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 12 of 21
[Remark codes: <, less than; E, estimated.]

Date	Metolachlor, water, fltrd, µg/L (39415)	Metribuzin, water, fltrd, µg/L (82630)	Metsulfuron, water, fltrd, µg/L (61697)	Molinate, water, fltrd 0.7u GF µg/L (82671)	Myclobutanil water, fltrd, µg/L (61599)	N-(4-Chlorophenyl)-N'-methylurea, µg/L (61692)	Neburon water, fltrd 0.7u GF µg/L (49294)	Nicosulfuron, water, fltrd, µg/L (50364)	Norflurazon, water, fltrd 0.7u GF µg/L (49293)	Oryzalin, water, fltrd 0.7u GF µg/L (49292)	Oxamyl, water, fltrd 0.7u GF µg/L (38866)	Oxyfluorfen, water, fltrd, µg/L (61600)	Pendimethalin, water, fltrd 0.7u GF µg/L (82683)
Jul													
11...	<.010	<.012	<.14	<.003	<.033	<.06	<.02	<.10	<.04	<.04	<.04	<.017	<.020

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 13 of 21
[Remark codes: <, less than; E, estimated.]

Date	Phorate oxon, water, fltrd, µg/L (61666)	Phorate water, fltrd 0.7u GF µg/L (82664)	Phosmet oxon, water, fltrd, µg/L (61668)	Phosmet water, fltrd, µg/L (61601)	Picloram, water, fltrd 0.7u GF µg/L (49291)	Prometon, water, fltrd, µg/L (04037)	Prometryn, water, fltrd, µg/L (04036)	Propyzamide, water, fltrd 0.7u GF µg/L (82676)	Propanil, water, fltrd 0.7u GF µg/L (82679)	Propargite, water, fltrd 0.7u GF µg/L (82685)	Propham water, fltrd 0.7u GF µg/L (49236)	Propiconazole, water, fltrd, µg/L (50471)	Propoxur, water, fltrd 0.7u GF µg/L (38538)
Jul													
11...	<.03	<.020	<.05	<.008	<.12	.02	<.006	<.004	<.011	<.02	<.060	<.06	<.040

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 14 of 21
[Remark codes: <, less than; E, estimated.]

Date	Siduron water, fltrd, µg/L (38548)	Simazine, water, fltrd, µg/L (04035)	Sulfometruron, water, fltrd, µg/L (50337)	Tebuthiuron water, fltrd 0.7u GF µg/L (82670)	Tefluthrin, water, fltrd, µg/L (61606)	Terbacil, water, fltrd, µg/L (04032)	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)	Triclopyr, water, fltrd 0.7u GF µg/L (49235)
Jul													
11...	<.04	E.003	<.060	<.02	<.003	<.040	<.04	<.01	<.01	<.010	<.03	<.035	<.04

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 15 of 21
[Remark codes: <, less than; E, estimated.]

Date	Trifluralin, water, fltrd 0.7u GF µg/L (82661)	1,1,1,2-Tetrachloroethane, water, unfltrd µg/L (77562)	1,1,1-Trichloroethane, water, unfltrd µg/L (34506)	1,1,2,2-Tetrachloroethane, water, unfltrd µg/L (34516)	CFC-113 water, unfltrd µg/L (77652)	1,1,2-Trichloroethane, water, unfltrd µg/L (34511)	1,1-Dichloroethane, water, unfltrd µg/L (34496)	1,1-Dichloroethene, water, unfltrd µg/L (34501)	1,1-Dichloropropene water, unfltrd µg/L (77168)	1,2,3,4-Tetramethylbenzene water, unfltrd µg/L (49999)	1,2,3,5-Tetramethylbenzene water, unfltrd µg/L (50000)	1,2,3-Trichlorobenzene water, unfltrd µg/L (77613)	1,2,3-Trichloropropane water, unfltrd µg/L (77443)
Jul													
11...	<.009	<.04	<.04	<.10	<.04	<.04	<.06	<.02	<.04	<.1	<.1	<.1	<.12

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 16 of 21
[Remark codes: <, less than; E, estimated.]

Date	1,2,3-Trimethylbenzene water, unfltrd µg/L (77221)	1,2,4-Trichlorobenzene water, unfltrd µg/L (34551)	1,2,4-Trimethylbenzene water, unfltrd µg/L (77222)	Dibromochloropropane water, unfltrd µg/L (82625)	1,2-Dibromoethane, water, unfltrd µg/L (77651)	1,2-Dichlorobenzene water, unfltrd µg/L (34536)	1,2-Dichloroethane, water, unfltrd µg/L (32103)	1,2-Dichloropropane water, unfltrd µg/L (34541)	1,3,5-Trimethylbenzene water, unfltrd µg/L (77226)	1,3-Dichlorobenzene water, unfltrd µg/L (34566)	1,3-Dichloropropane water, unfltrd µg/L (77173)	1,4-Dichlorobenzene water, unfltrd µg/L (34571)	2,2-Dichloropropane water, unfltrd µg/L (77170)
Jul													
11...	<.1	<.1	<.04	<.5	<.04	<.04	<.1	<.02	<.04	<.04	<.1	<.04	<.06

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 17 of 21
[Remark codes: <, less than; E, estimated.]

Date	2-Chlorotoluene water, unfltrd µg/L (77275)	2-Ethyltoluene water, unfltrd µg/L (77220)	3-Chloropropene water, unfltrd µg/L (78109)	4-Chlorotoluene water, unfltrd µg/L (77277)	4-Isopropyltoluene water, unfltrd µg/L (77356)	Acetone water, unfltrd µg/L (81552)	Acrylonitrile water, unfltrd µg/L (34215)	Benzene water, unfltrd µg/L (34030)	Bromobenzene water, unfltrd µg/L (81555)	Bromochloromethane water, unfltrd µg/L (77297)	Bromodichloromethane water, unfltrd µg/L (32101)	Bromoethene, water, unfltrd µg/L (50002)	Bromomethane water, unfltrd µg/L (34413)
Jul													
11...	<.04	<.04	<.08	<.04	<.08	<6	<.4	<.02	<.02	<.06	<.04	<.1	<.4

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 18 of 21
[Remark codes: <, less than; E, estimated.]

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)
Jul													
11...	<.06	<.02	<.1	<.1	<.02	<.06	<.1	<.04	<.14	<.04	<.1	<.06	<.1

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 19 of 21
[Remark codes: <, less than; E, estimated.]

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)
Jul													
11...	<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 20 of 21
[Remark codes: <, less than; E, estimated.]

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)
Jul													
11...	<.4	<.1	<.04	<.04	<.04	<.04	<.04	<.1	<.08	<.04	<.08	<1	<.02

413338091045601 Local number 78-02-16 ACA—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
Part 21 of 21
[Remark codes: <, less than; E, estimated.]

Date	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)
Jul												
11...	<.02	<.10	<.6	<.08	<.02	<.08	<.04	<.1	<.01	.099	.22	.52