

Water-Data Report 2012

345112086313401 Local number EHR-LUS13

Undefined Aquifer
Fort Payne Chert/formation

Madison County, AL

LOCATION.--Lat 34°51'12.4", long 86°31'34.2" referenced to North American Datum of 1983, in NW ¼ SW ¼ NE ¼ sec.21, T.2 S., R.1 E., Madison County, AL, Hydrologic Unit 06030002.

GROUNDWATER RECORDS

**WATER LEVELS IN FEET BELOW LAND-SURFACE DATUM
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012**

[Measurement method: T, electric tape. Water-
level status: - - , static.]

Date	Water level	Measurement method	Water- level status
Mar 27	23.64	T	--

Period of record highest: 21.48, Apr 19, 2011; lowest:
24.76, May 19, 2008

Record available from Dec 7, 1999, to Mar 27, 2012; 16
entries

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WATER-QUALITY RECORDS

WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[%, percent; CaCO₃, calcium carbonate; N, nitrogen; NTRU, nephelometric turbidity ratio unit; P, phosphorus; SiO₂, silicon dioxide; mg/L, milligrams per liter; mm Hg, millimeters of mercury; nm, nanometers; °C, degrees Celsius; µS/cm, microsiemens per centimeter; µg/L, micrograms per liter; <, less than; U, analyzed for but not detected]

Date	Sample start time	Temperature, water, °C (00010)	Barometric pressure, mm Hg (00025)	Specific conductance, unfiltered, water, µS/cm at 25°C (00095)	Specific conductance, unfiltered, laboratory, water, µS/cm at 25°C (90095)	Dissolved oxygen, unfiltered, water, mg/L (00300)	Dissolved oxygen, unfiltered, % saturation (00301)	Caffeine, water, filtered, recoverable, µg/L (50305)	pH, water, unfiltered, field, standard units (00400)	Hydrogen ion, water, unfiltered, calculated, mg/L (00191)
03-27-2012	1400	19.3	745	212	202	5.2	57	0.008	6.8	0.00017

Date	Sample start time	pH, water, unfiltered, laboratory, standard units (00403)	Carbon dioxide, unfiltered, water, mg/L (00405)	Bicarbonate, water, filtered, inflection-point, incremental titration method, field, mg/L (00453)	Alkalinity, water, filtered, inflection-point, incremental titration method, field, mg/L as CaCO ₃ (39086)	Turbidity, water, unfiltered, broad band light source (400-680 nm), detectors at multiple angles including 90 +/- 30 degrees, ratiometric correction, NTRU (63676)	Organic nitrogen, water, filtered, mg/L (00607)	Ammonia, water, filtered, mg/L as N (00608)	Nitrite, water, filtered, mg/L as N (00613)
03-27-2012	1400	7.4	27	102	84	0.5	< .04	< .010	< .0010

WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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Date	Sample start time	Nitrate, water, filtered, mg/L as N (00618)	Nitrate plus nitrite, water, filtered, mg/L as N (00631)	Ammonia, water, filtered, mg/L as NH ₄ (71846)	Nitrate, water, filtered, mg/L (71851)	Nitrite, water, filtered, mg/L (71856)	Hydrogen sulfide, water, unfiltered, mg/L (71875)	Orthophosphate, water, filtered, mg/L (00660)	Orthophosphate, water, filtered, mg/L as P (00671)
03-27-2012	1400	3.78	3.78	< .013	16.7	< .003	U	0.135	0.0440

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Date	Sample start time	Total nitrogen, water, filtered, analytically determined, mg/L (62854)	Organic carbon, water, filtered, mg/L (00681)	Hardness, water, mg/L as CaCO ₃ (00900)	Non-carbonate hardness, water, filtered, field, mg/L as CaCO ₃ (00904)	Calcium, water, filtered, mg/L (00915)	Magnesium, water, filtered, mg/L (00925)	Sodium, water, filtered, mg/L (00930)	Sodium adsorption ratio, water, number (00931)	Sodium fraction of cations, water, percent in equivalents of major cations (00932)
03-27-2012	1400	3.81	< .23	107	23	24.6	11.0	1.24	0.05	2

Date	Sample start time	Potassium, water, filtered, mg/L (00935)	Chloride, water, filtered, mg/L (00940)	Sulfate, water, filtered, mg/L (00945)	Fluoride, water, filtered, mg/L (00950)	Silica, water, filtered, mg/L as SiO ₂ (00955)	Arsenic, water, filtered, µg/L (01000)	Barium, water, filtered, µg/L (01005)	Beryllium, water, filtered, µg/L (01010)	Boron, water, filtered, µg/L (01020)
03-27-2012	1400	0.530	5.47	0.409	< .04	9.14	0.068	9.01	0.0250	3.07

Date	Sample start time	Cadmium, water, filtered, µg/L (01025)	Chromium, water, filtered, µg/L (01030)	Cobalt, water, filtered, µg/L (01035)	Copper, water, filtered, µg/L (01040)	Iron, water, filtered, µg/L (01046)	Lead, water, filtered, µg/L (01049)	Manganese, water, filtered, µg/L (01056)	Thallium, water, filtered, µg/L (01057)	Molybdenum, water, filtered, µg/L (01060)
03-27-2012	1400	0.183	0.323	0.0239	2.53	< 3.2	1.29	0.136	0.0124	0.117

WATER-QUALITY DATA

WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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Date	Sample start time	Nickel, water, filtered, µg/L (01065)	Silver, water, filtered, µg/L (01075)	Strontium, water, filtered, µg/L (01080)	Vanadium, water, filtered, µg/L (01085)	Zinc, water, filtered, µg/L (01090)	Antimony, water, filtered, µg/L (01095)	Aluminum, water, filtered, µg/L (01106)	Lithium, water, filtered, µg/L (01130)	Selenium, water, filtered, µg/L (01145)
03-27-2012	1400	1.88	< .005	20.9	0.138	9.69	< .027	< 2.2	1.65	0.036

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Date	Sample start time	Dissolved				
		solids dried at 180°C, water, filtered, mg/L (70300)	solids, water, filtered, sum of constituents, mg/L (70301)	solids, water, filtered, tons per acre-foot (70303)	Bromide, water, filtered, mg/L (71870)	Uranium (natural), water, filtered, µg/L (22703)
03-27-2012	1400	116	119	0.16	0.0202	0.0301

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PESTICIDE ANALYSES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Terbuthyl- azine, water, filtered, recover- able, µg/L (04022)	Propa- chlor, water, filtered, recover- able, µg/L (04024)	Hexa- zinone, water, filtered, recover- able, µg/L (04025)	Bromacil, water, filtered, recover- able, µg/L (04029)	Cycloate, water, filtered, recover- able, µg/L (04031)	Terbacil, water, filtered, recover- able, µg/L (04032)	Di- phenamid, water, filtered, recover- able, µg/L (04033)	Simazine, water, filtered, recover- able, µg/L (04035)	Prometryn, water, filtered, recover- able, µg/L (04036)	Prometon, water, filtered, recover- able, µg/L (04037)
03-27-2012	< .008	--	< .012	< .06	< .04	< .046	< .04	< .006	< .010	< .012

Date	2-Chloro-6- ethyl- amino-4- amino-s- triazine, water, filtered, recover- able, µg/L (04038)	2-Chloro-4- isopropyl- amino-6- amino-s- triazine, water, filtered, recover- able, µg/L (04040)	Cyanazine, water, filtered, recover- able, µg/L (04041)	Fonofos, water, filtered, recover- able, µg/L (04095)	Dicamba, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38442)	Linuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38478)	MCPA, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38482)	MCPB, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38487)	Methio- carb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38501)	Propoxur, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38538)
03-27-2012	0.022	E .119	< .022	< .0048	< .06	< .04	< .04	< .2	< .04	< .06

Date	Siduron, water, filtered, recover- able, µg/L (38548)	Bentazon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38711)	2,4-DB, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38746)	Fluome- turon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38811)	Oxamyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (38866)	Chlor- pyrifos, water, filtered, recover- able, µg/L (38933)	Dieldrin, water, filtered, recover- able, µg/L (39381)	Metola- chlor, water, filtered, recover- able, µg/L (39415)	Malathion, water, filtered, recover- able, µg/L (39532)	Diazinon, water, filtered, recover- able, µg/L (39572)
03-27-2012	< .04	< .06	< .02	0.142	< .12	< .0036	< .008	< .020	< .016	< .0060

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PESTICIDE ANALYSES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
 [µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Atrazine, water, filtered, recover- able, µg/L (39632)	2,4-D, water, filtered, recover- able, µg/L (39732)	Alachlor, water, filtered, recover- able, µg/L (46342)	Triclopyr, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49235)	Propham, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49236)	Aceto- chlor, water, filtered, recover- able, µg/L (49260)	Picloram, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49291)	Oryzalin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49292)	Nor- flurazon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49293)	Neburon, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49294)
03-27-2012	0.0520	< .06	< .008	< .08	< .040	< .010	< .10	< .04	0.030	< .02

Date	Methomyl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49296)	Fenuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49297)	Diuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49300)	Dinoseb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49301)	Dichlor- prop, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49302)	Dacthal monoacid, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49304)	Clopyralid, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49305)	3-Hydroxy carbo- furan, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49308)	Carbo- furan, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49309)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49310)
03-27-2012	< .12	< .06	0.018	< .04	< .04	< .04	< .14	< .06	< .04	< .04

Date	Brom- oxynil, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49311)	Aldicarb, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49312)	Aldicarb sulfone, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49313)	Aldicarb sulfoxide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49314)	Acifluor- fen, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (49315)	Bendio- carb, water, filtered, recover- able, µg/L (50299)	Benomyl, water, filtered, recover- able, µg/L (50300)	Chlori- muron- ethyl, water, filtered, recover- able, µg/L (50306)	Sulfo- meturon- methyl, water, filtered, recover- able, µg/L (50337)	2-Hydroxy- 4-iso- propyl- amino-6- ethyl- amino-s- triazine, water, filtered, recover- able, µg/L (50355)
03-27-2012	< .12	< .12	< .08	< .08	< .08	< .04	< .06	< .08	< .06	0.009

PESTICIDE ANALYSES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
 [µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Imazaquin, water, filtered, recover- able, µg/L (50356)	Metalaxyl, water, filtered, recover- able, µg/L (50359)	Nico- sulfuron, water, filtered, recover- able, µg/L (50364)	Imaze- thapyr, water, filtered, recover- able, µg/L (50407)	2,4-D methyl ester, water, filtered, recover- able, µg/L (50470)	2,4-D plus 2,4-D methyl ester, sum on a molar basis, microgram s per liter as 2,4-D (66496)	Propicon- azole, water, filtered, recover- able, µg/L (50471)	Chlor- amben methyl ester, water, filtered, recover- able, µg/L (61188)	N-(4- Chloro- phenyl)- N'-methyl- urea, water, filtered, recover- able, µg/L (61692)	Ben- sulfuron- methyl, water, filtered, recover- able, µg/L (61693)
03-27-2012	< .10	< .04	< .32	< .08	< .2	< .06	< .038	< .20	< .10	< .06

Date	Flumet- sulam, water, filtered, recover- able, µg/L (61694)	Imi- dacloprid, water, filtered, recover- able, µg/L (61695)	Metsul- furon- methyl, water, filtered, recover- able, µg/L (61697)	Metri- buzin, water, filtered, recover- able, µg/L (82630)	2,6- Diethyl- aniline, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82660)	Trifluralin, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82661)	Phorate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82664)	Methyl parathion, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82667)	EPTC, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82668)	Tebu- thiuron, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82670)
03-27-2012	< .08	< .08	< .14	< .012	< .0060	< .018	< .020	< .008	< .0056	< .028

Date	Molinate, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82671)	Ethoprop, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82672)	Benfluralin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82673)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82674)	Terbufos, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82675)	Propyz- amide, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82676)	Disulfoton, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82677)	Propanil, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82679)	Carbaryl, water, filtered (0.7 micron glass fiber filter), recover- able, µg/L (82680)
03-27-2012	< .0040	< .016	< .014	< .060	< .018	< .0036	< .040	< .010	< .06

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PESTICIDE ANALYSES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

[µg/L, micrograms per liter; --, no data; <, less than; E, estimated]

Date	Thioben-carb, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82681)	DCPA, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82682)	Pendi-methalin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82683)	Propargite, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82685)	Azinphos-methyl, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82686)	cis-Permethrin, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82687)	1-Naphthol, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (49295)	2-Chloro-2',6'-diethyl-acetanilide, water, filtered, recoverable, µg/L (61618)	2-Ethyl-6-methyl-aniline, water, filtered, recoverable, µg/L (61620)	3,4-Dichloro-aniline, water, filtered, recoverable, µg/L (61625)
03-27-2012	< .016	< .0076	< .012	< .020	< .12	< .010	< .036	< .010	< .010	< .006

Date	3,5-Di-chloro-aniline, water, filtered, recoverable, µg/L (61627)	4-Chloro-2-methyl-phenol, water, filtered, recoverable, µg/L (61633)	alpha-Endo-sulfan, water, filtered, recoverable, µg/L (34362)	Azinphos-methyl oxygen analog, water, filtered, recoverable, µg/L (61635)	Chlorpyrifos oxygen analog, water, filtered, recoverable, µg/L (61636)	cis-Propiconazole, water, filtered, recoverable, µg/L (79846)	Cyfluthrin, water, filtered, recoverable, µg/L (61585)	lambda-Cyhalo-thrin, water, filtered, recoverable, µg/L (61595)	Cyper-methrin, water, filtered, recoverable, µg/L (61586)	Desulfinyl-fipronil, water, filtered, recoverable, µg/L (62170)
03-27-2012	< .006	< .008	< .006	< .042	< .08	< .008	< .016	< .010	< .020	< .012

Date	Dicroto-phos, water, filtered, recoverable, µg/L (38454)	Dimetho-ate, water, filtered (0.7 micron glass fiber filter), recoverable, µg/L (82662)	Disulfoton sulfone, water, filtered, recoverable, µg/L (61640)	Endosulfan sulfate, water, filtered, recoverable, µg/L (61590)	Ethion monoxon, water, filtered, recoverable, µg/L (61644)	Ethion, water, filtered, recoverable, µg/L (82346)	Fenami-phos sulfone, water, filtered, recoverable, µg/L (61645)	Fenami-phos sulfoxide, water, filtered, recoverable, µg/L (61646)	Fenami-phos, water, filtered, recoverable, µg/L (61591)	Desulfinyl-fipronil amide, water, filtered, recoverable, µg/L (62169)
03-27-2012	< .08	< .010	< .014	< .016	< .021	< .010	< .054	< .08	< .030	< .029

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PESTICIDE ANALYSES
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012

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Date	Fipronil sulfide, water, filtered, recoverable, µg/L (62167)	Fipronil sulfone, water, filtered, recoverable, µg/L (62168)	Fipronil, water, filtered, recoverable, µg/L (62166)	Iprodione, water, filtered, recoverable, µg/L (61593)	Isofen-phos, water, filtered, recoverable, µg/L (61594)	Malaoxon, water, filtered, recoverable, µg/L (61652)	Metalaxyl, water, filtered, recoverable, µg/L (61596)	Methidathion, water, filtered, recoverable, µg/L (61598)	Methyl paraoxon, water, filtered, recoverable, µg/L (61664)	Myclobutanil, water, filtered, recoverable, µg/L (61599)
03-27-2012	<.012	<.024	<.018	<.014	<.008	<.022	<.014	<.012	<.014	<.010

Date	Oxy-fluorfen, water, filtered, recoverable, µg/L (61600)	Phorate oxygen analog, water, filtered, recoverable, µg/L (61666)	Phosmet oxygen analog, water, filtered, recoverable, µg/L (61668)	Phosmet, water, filtered, recoverable, µg/L (61601)	Tefluthrin, water, filtered, recoverable, µg/L (61606)	Terbufos oxygen analog sulfone, water, filtered, recoverable, µg/L (61674)	trans-Propiconazole, water, filtered, recoverable, µg/L (79847)	Tribuphos, water, filtered, recoverable, µg/L (61610)	Dichlorvos, water, filtered, recoverable, µg/L (38775)
03-27-2012	<.010	<.027	<.0511	<.08	<.014	<.045	<.018	<.018	<.04