

Water-Data Report 2012

344615086272201 Local number EHR-LUS31

Undefined Aquifer
Fort Payne Chert/formation

Madison County, AL

LOCATION.--Lat 34°46'14.7", long 86°27'21.9" referenced to North American Datum of 1983, in SW ¼ SW ¼ SE ¼ sec.18, T.3 S., R.2 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
Apr 17	18.09	T	--

Period of record highest: 12.89, Apr 19, 2011; lowest: 18.90, Apr 24, 2007

Record available from Dec 7, 1999, to Apr 17, 2012; 16 entries

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; E, estimated; U, analyzed for but not detected]

Date	Sample start time	Temperature, water, °C (00010)	Barometric pressure, mm Hg (00025)	Specific conductance, water, unfiltered, µS/cm at 25°C (00095)	Specific conductance, water, unfiltered, laboratory, µS/cm at 25°C (90095)	Dissolved oxygen, water, unfiltered, mg/L (00300)	Dissolved oxygen, water, 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)
04-17-2012	1500	16.6	751	74	E 73.3	4.9	51	< .08	4.7	0.01965

Date	Sample start time	pH, water, unfiltered, laboratory, standard units (00403)	Carbon dioxide, water, unfiltered, 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)	Ammonia, water, filtered, mg/L as N (00608)	Nitrite, water, filtered, mg/L as N (00613)	Nitrate, water, filtered, mg/L as N (00618)
04-17-2012	1500	E 5.0	57	2	2	1.1	< .010	< .0010	4.41

344615086272201 Local number EHR-LUS31—Continued

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; E, estimated; U, analyzed for but not detected]

Date	Sample start time	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)	Total nitrogen, water, filtered, analytically determined, mg/L (62854)
04-17-2012	1500	4.41	< .013	19.5	< .003	U	< .012	< .004	4.29

Date	Sample start time	Organic carbon, water, filtered, mg/L (00681)	Hardness, water, mg/L as CaCO ₃ (00900)	Non-carbonate hardness, water, filtered, 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)	Potassium, water, filtered, mg/L (00935)
04-17-2012	1500	< .23	20.0	19	3.24	2.88	3.67	0.36	27	1.13

Date	Sample start time	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)	Cadmium, water, filtered, μg/L (01025)
04-17-2012	1500	7.42	< .09	< .04	9.44	< .03	106	0.0992	5.46	0.199

Date	Sample start time	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)	Nickel, water, filtered, μg/L (01065)
04-17-2012	1500	0.426	0.218	< .8	< 3.2	0.806	40.2	< .010	< .014	3.79

344615086272201 Local number EHR-LUS31—Continued

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; E, estimated; U, analyzed for but not detected]

Date	Sample start time	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)	Dissolved solids dried at 180°C, water, filtered, mg/L (70300)
04-17-2012	1500	< .005	25.1	< .08	5.29	< .027	53.9	0.945	< .03	45

Date	Sample start time	Dissolved solids, water, filtered, sum of constituents, mg/L (70301)	Dissolved solids, water, filtered, tons per acre-foot (70303)	Bromide, water, filtered, mg/L (71870)	Uranium (natural), water, filtered, µg/L (22703)
04-17-2012	1500	< 49	0.06	0.0253	0.0106

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)
04-17-2012	< .008	--	< .012	< .06	< .04	< .046	< .04	0.0459	< .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)
04-17-2012	0.036	E .0749	< .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)
04-17-2012	< .04	< .06	< .02	0.046	< .12	< .0036	< .008	0.0062	< .016	< .0060

344615086272201 Local number EHR-LUS31—Continued

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)
04-17-2012	0.0377	< .06	< .008	< .08	< .040	< .010	< .10	< .04	0.163	< .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)
04-17-2012	< .12	< .06	< .04	< .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)
04-17-2012	< .12	< .12	< .08	< .08	< .08	< .04	< .06	< .08	< .06	0.012

344615086272201 Local number EHR-LUS31—Continued

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)
04-17-2012	< .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)
04-17-2012	< .08	< .08	< .14	< .012	< .0060	0.0034	< .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), recover- able, µg/L (82673)	Carbofuran, water, filtered (0.7 micron glass fiber filter), recover- able, 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)
04-17-2012	< .0040	< .016	< .014	< .060	< .018	< .0036	< .040	< .010	< .06

344615086272201 Local number EHR-LUS31—Continued

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'-diethylacetanilide, 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)
04-17-2012	<.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-Propicon-azole, 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)	Desulfanyl-fipronil, water, filtered, recoverable, µg/L (62170)
04-17-2012	<.006	<.008	<.006	<.042	<.08	<.008	<.0174	<.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)	Desulfanyl-fipronil amide, water, filtered, recoverable, µg/L (62169)
04-17-2012	<.08	<.010	<.014	<.016	<.021	<.010	<.054	<.08	<.030	<.029

344615086272201 Local number EHR-LUS31—Continued

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

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 paraxon, water, filtered, recoverable, µg/L (61664)	Myclobutanil, water, filtered, recoverable, µg/L (61599)
04-17-2012	<.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)
04-17-2012	<.010	<.027	<.0511	<.08	<.014	<.045	<.018	<.018	<.04