Water-Data Report 2006

350643089502001 Local number SH:UR-20

Mississippi embayment aquifer system
Memphis Sand

Shelby County, TN

LOCATION.--Lat 35°06'43.0", long 89°50'20.0" referenced to North American Datum of 1983, Shelby County, TN, Hydrologic Unit 08010210.

WATER-QUALITY RECORDS

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 20

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

Date	Time	Depth of well, feet below LSD (72008)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Potassium, water, fltrd, mg/L (00935)
May 22...	1650	76.1	3.0	755	.8	9	5.8	154	20.9	40	8.85	4.35	1.26

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 20

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

Date	Sodium adsorption ratio (00931)	Sodium fraction of cations percent (00932)	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)	Silica, water, fltrd, mg/L (00955)	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of constituents mg/L (70301)	Residue water, fltrd, tons/acre-ft (70303)	Residue on evap. at 180degC wat flt mg/L (70300)
May 22...	1	45	15.6	62	75	.10	5.75	.18	20.1	3.73	97	.13	97

350643089502001 Local number SH:UR-20—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 3 of 20
[Remark codes: <, less than; E, estimated.]

Date	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)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Organic carbon, water, fltrd, mg/L (00681)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)
May													
22...	<.04	<.06	<.008	<.006	E.2	<1.6	<.20	<.12	112	<.06	<8	E.03	.25

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 4 of 20
[Remark codes: <, less than; E, estimated.]

Date	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
May													
22...	.390	.7	8	<.08	1.3	29.7	<.4	2.39	.08	<.2	42.0	E.09	4.9

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 5 of 20
[Remark codes: <, less than; E, estimated.]

Date	1-Naph-thol, water, fltrd 0.7u GF ug/L (49295)	2,4-D methyl ester, water, fltrd, ug/L (50470)	2,4-D, water, fltrd, ug/L (39732)	2,4-DB, water, fltrd 0.7u GF ug/L (38746)	2,6-Di-ethyl-aniline water, fltrd 0.7u GF ug/L (82660)	2Chloro -2',6'-diethyl acet-anilide wat flt ug/L (61618)	CIAT, water, fltrd, ug/L (04040)	CEAT, water, fltrd, ug/L (04038)	2-Ethyl -6-methyl-aniline water, fltrd, ug/L (61620)	OIET, water, fltrd, ug/L (50355)	3,4-Di-chloro-aniline water, fltrd, ug/L (61625)	3-Hydroxy carbo-furan, wat flt 0.7u GF ug/L (49308)	4-Chloro-2methyl phenol, water, fltrd, ug/L (61633)
May													
22...	<.09	<.190	<.04	<.02	<.006	<.006	<.014	<.08	<.010	<.032	<.004	<.008	<.005

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 6 of 20
[Remark codes: <, less than; E, estimated.]

Date	Acetochlor, water, fltrd, ug/L (49260)	Acifluorfen, water, fltrd 0.7u GF ug/L (49315)	Alachlor, water, fltrd, ug/L (46342)	Aldicarb sulfone water, fltrd 0.7u GF ug/L (49313)	Aldicarb sulfoxide, wat flt 0.7u GF ug/L (49314)	Aldicarb, water, fltrd 0.7u GF ug/L (49312)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl oxon, water, fltrd, ug/L (61635)	Azinphosmethyl, water, fltrd 0.7u GF ug/L (82686)	Bendiocarb, water, fltrd, ug/L (50299)	Benfluralin, water, fltrd 0.7u GF ug/L (82673)	Benomyl water, fltrd, ug/L (50300)	Bensulfuronmethyl, water, fltrd, ug/L (61693)
May													
22...	<.006	<.028	<.005	<.02	<.100	<.15	<.007	<.04	<.050	<.08	<.010	<.022	<.02

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 7 of 20
[Remark codes: <, less than; E, estimated.]

Date	Bentazon, water, fltrd 0.7u GF ug/L (38711)	Bromacil, water, fltrd, ug/L (04029)	Bromoxynil, water, fltrd 0.7u GF ug/L (49311)	Caffeine, water, fltrd, ug/L (50305)	Carbaryl, water, fltrd 0.7u GF ug/L (49310)	Carbofuran, water, fltrd 0.7u GF ug/L (49309)	Chloramben methyl ester, water, fltrd, ug/L (61188)	Chlorimuron, water, fltrd, ug/L (50306)	Chlorodiamino-s-triazine, wat flt ug/L (04039)	Chlorpyrifos oxon, water, fltrd, ug/L (61636)	Chlorpyrifos water, fltrd, ug/L (38933)	cis-Permethrin water fltrd 0.7u GF ug/L (82687)	Clopyralid, water, fltrd 0.7u GF ug/L (49305)
May													
22...	<.02	<.02	<.04	<.018	<.02	<.016	<.02	<.032	<.04	<.06	<.005	<.006	<.07

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 8 of 20
[Remark codes: <, less than; E, estimated.]

Date	Cycloate, water, fltrd, ug/L (04031)	Cyfluthrin, water, fltrd, ug/L (61585)	Cypermethrin water, fltrd, ug/L (61586)	Dacthal monoacid, water, fltrd 0.7u GF ug/L (49304)	DCPA, water, fltrd 0.7u GF ug/L (82682)	Desulfinyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dicamba water, fltrd 0.7u GF ug/L (38442)	Dichlorprop, water, fltrd 0.7u GF ug/L (49302)	Dicrotophos, water, fltrd, ug/L (38454)	Dieldrin, water, fltrd, ug/L (39381)	Dimethoate, water, fltrd 0.7u GF ug/L (82662)	Dinoseb water, fltrd 0.7u GF ug/L (49301)
May													
22...	<.01	<.053	<.046	<.03	<.003	<.012	<.005	<.04	<.03	<.08	<.009	<.006	<.04

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 9 of 20
[Remark codes: <, less than; E, estimated.]

Date	Diphenamid, water, fltrd, ug/L (04033)	Diuron, water, fltrd 0.7u GF ug/L (49300)	Ethion monoxon water, fltrd, ug/L (61644)	Ethion, water, fltrd, ug/L (82346)	Fenamiphos sulfone water, fltrd, ug/L (61645)	Fenamiphos sulfoxide, water, fltrd, ug/L (61646)	Fenamiphos, water, fltrd, ug/L (61591)	Fenuron water, fltrd 0.7u GF ug/L (49297)	Desulfinylfipronil amide, wat flt ug/L (62169)	Fipronil sulfide water, fltrd, ug/L (62167)	Fipronil sulfone water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Flumetsulam, water, fltrd, ug/L (61694)
May													
22...	<.01	<.02	<.02	<.016	<.053	<.04	<.03	<.10	<.029	<.013	<.024	<.016	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 10 of 20
[Remark codes: <, less than; E, estimated.]

Date	Fluometuron water, fltrd 0.7u GF ug/L (38811)	Fonofos water, fltrd, ug/L (04095)	Hexazinone, water, fltrd, ug/L (04025)	Imazaquin, water, fltrd, ug/L (50356)	Imazethapyr, water, fltrd, ug/L (50407)	Imidacloprid water, fltrd, ug/L (61695)	Iprodione, water, fltrd, ug/L (61593)	Isofenphos, water, fltrd, ug/L (61594)	Linuron water, fltrd 0.7u GF ug/L (38478)	Malaoxon, water, fltrd, ug/L (61652)	Malathion, water, fltrd, ug/L (39532)	MCPA, water, fltrd 0.7u GF ug/L (38482)	MCPB, water, fltrd 0.7u GF ug/L (38487)
May													
22...	<.02	<.005	<.026	<.04	<.04	<.020	<.026	<.011	<.01	<.039	<.027	<.07	<.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 11 of 20
[Remark codes: <, less than; E, estimated.]

Date	Metalaxyl, water, fltrd, ug/L (61596)	Methialthion water, fltrd, ug/L (61598)	Methiocarb, water, fltrd 0.7u GF ug/L (38501)	Methomyl, water, fltrd 0.7u GF ug/L (49296)	Methyl paraoxon, water, fltrd, ug/L (61664)	Methyl parathion, water, fltrd 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Metsulfuron, water, fltrd, ug/L (61697)	Myclobutanil water, fltrd, ug/L (61599)	N-(4-Chlorophenyl)-N'-methylurea, ug/L (61692)	Neburon water, fltrd 0.7u GF ug/L (49294)	Nicosulfuron, water, fltrd, ug/L (50364)
May													
22...	<.007	<.009	<.034	<.070	<.02	<.015	<.006	<.028	<.07	<.033	<.04	<.01	<.04

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 12 of 20
[Remark codes: <, less than; E, estimated.]

Date	Norflurazon, water, fltrd 0.7u GF ug/L (49293)	Oryzalin, water, fltrd 0.7u GF ug/L (49292)	Oxamyl, water, fltrd 0.7u GF ug/L (38866)	Pendimethalin, water, fltrd 0.7u GF ug/L (82683)	Phorate oxon, water, fltrd, ug/L (61666)	Phorate water, fltrd 0.7u GF ug/L (82664)	Picloram, water, fltrd 0.7u GF ug/L (49291)	Prometon, water, fltrd, ug/L (04037)	Prometryn, water, fltrd, ug/L (04036)	Propyzamide, water, fltrd 0.7u GF ug/L (82676)	Propham water, fltrd 0.7u GF ug/L (49236)	Propiconazole, water, fltrd, ug/L (50471)	Propoxur, water, fltrd 0.7u GF ug/L (38538)
May													
22...	<.02	<.02	<.05	<.022	<.03	<.055	<.03	<.01	<.006	<.004	<.030	<.01	<.008

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 13 of 20
[Remark codes: <, less than; E, estimated.]

Date	Siduron water, fltrd, ug/L (38548)	Simazine, water, fltrd, ug/L (04035)	Sulfometruron, water, fltrd, ug/L (50337)	Tebuthiuron water, fltrd 0.7u GF ug/L (82670)	Terbacil, water, fltrd, ug/L (04032)	Terbufos oxon sulfone water, fltrd, ug/L (61674)	Terbufos, water, fltrd 0.7u GF ug/L (82675)	Terbuthylazine, water, fltrd, ug/L (04022)	Triclopyr, water, fltrd 0.7u GF ug/L (49235)	Trifluralin, water, fltrd 0.7u GF ug/L (82661)	1,1,1,2-Tetrachloroethane, water, unfltrd ug/L (77562)	1,1,1-Trichloroethane, water, unfltrd ug/L (34506)	1,1,2,2-Tetrachloroethane, water, unfltrd ug/L (34516)
May													
22...	<.02	<.005	<.090	<.02	<.026	<.04	<.02	<.01	<.03	<.009	<.03	<.03	<.08

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 14 of 20
[Remark codes: <, less than; E, estimated.]

Date	CFC-113 water, unfltrd ug/L (77652)	1,1,2-Trichloroethane, water, unfltrd ug/L (34511)	1,1-Dichloroethane, water, unfltrd ug/L (34496)	1,1-Dichloroethene, water, unfltrd ug/L (34501)	1,1-Dichloropropene water, unfltrd ug/L (77168)	1,2,3,4-Tetramethylbenzene water, unfltrd ug/L (49999)	1,2,3,5-Tetramethylbenzene water, unfltrd ug/L (50000)	1,2,3-Trichlorobenzene water, unfltrd ug/L (77613)	1,2,3-Trichloropropane water, unfltrd ug/L (77443)	1,2,3-Trimethylbenzene water, unfltrd ug/L (77221)	1,2,4-Trichlorobenzene water, unfltrd ug/L (34551)	1,2,4-Trimethylbenzene water, unfltrd ug/L (77222)	Dibromochloropropane water, unfltrd ug/L (82625)
May													
22...	<.04	<.04	<.04	<.02	<.03	<.1	<.2	<.2	<.18	<.1	<.1	<.06	<.5

350643089502001 Local number SH:UR-20—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 15 of 20
[Remark codes: <, less than; E, estimated.]

Date	1,2-Dibromoethane, water, unfltrd ug/L (77651)	1,2-Dichlorobenzene water, unfltrd ug/L (34536)	1,2-Dichloroethane, water, unfltrd ug/L (32103)	1,2-Dichloropropane water, unfltrd ug/L (34541)	1,3,5-Trimethylbenzene water, unfltrd ug/L (77226)	1,3-Dichlorobenzene water, unfltrd ug/L (34566)	1,3-Dichloropropane water, unfltrd ug/L (77173)	1,4-Dichlorobenzene water, unfltrd ug/L (34571)	2,2-Dichloropropane water, unfltrd ug/L (77170)	2-Chlorotoluene water, unfltrd ug/L (77275)	2-Ethyltoluene water, unfltrd ug/L (77220)	3-Chloropropene water, unfltrd ug/L (78109)	4-Chlorotoluene water, unfltrd ug/L (77277)
May													
22...	<.04	<.05	<.1	<.03	<.04	<.03	<.1	<.03	<.05	<.04	<.06	<.50	<.05

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 16 of 20
[Remark codes: <, less than; E, estimated.]

Date	4-Isopropyltoluene water, unfltrd ug/L (77356)	Acetone water, unfltrd ug/L (81552)	Acrylonitrile water, unfltrd ug/L (34215)	Benzene water, unfltrd ug/L (34030)	Bromobenzene water, unfltrd ug/L (81555)	Bromochloromethane water, unfltrd ug/L (77297)	Bromodichloromethane water, unfltrd ug/L (32101)	Bromoethene, water, unfltrd ug/L (50002)	Bromomethane water, unfltrd ug/L (34413)	Carbon disulfide water, unfltrd ug/L (77041)	Chlorobenzene water, unfltrd ug/L (34301)	Chloroethane, water, unfltrd ug/L (34311)	Chloromethane water, unfltrd ug/L (34418)
May													
22...	<.08	<6	<.8	<.02	<.03	<.12	<.03	<.1	<.3	<.04	<.03	<.1	<.2

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 17 of 20
[Remark codes: <, less than; E, estimated.]

Date	cis-1,2-Dichloroethene, water, unfltrd ug/L (77093)	cis-1,3-Dichloropropene water, unfltrd ug/L (34704)	Dibromochloromethane water, unfltrd ug/L (32105)	Dibromomethane water, unfltrd ug/L (30217)	Dichlorodifluoromethane wat unf ug/L (34668)	Dichloromethane water, unfltrd ug/L (34423)	Diethyl ether, water, unfltrd ug/L (81576)	Diisopropyl ether, water, unfltrd ug/L (81577)	Ethyl methacrylate, water, unfltrd ug/L (73570)	Ethyl methyl ketone, water, unfltrd ug/L (81595)	Ethylbenzene water, unfltrd ug/L (34371)	Hexachlorobutadiene, water, unfltrd ug/L (39702)	Hexachloroethane, water, unfltrd ug/L (34396)
May													
22...	<.02	<.05	<.1	<.05	<.18	<.1	<.1	<.10	<.2	<2.0	<.03	<.1	<.1

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WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 18 of 20
[Remark codes: <, less than; E, estimated.]

Date	Iodo-methane water, unfltrd ug/L (77424)	Iso-butyl methyl ketone, water, unfltrd ug/L (78133)	Iso-propyl-benzene water, unfltrd ug/L (77223)	Methyl acrylo-nitrile water, unfltrd ug/L (81593)	Methyl acryl-ate, water, unfltrd ug/L (49991)	Methyl methac-rylate, water, unfltrd ug/L (81597)	Methyl tert-pentyl ether, water, unfltrd ug/L (50005)	meta- + para-Xylene, water, unfltrd ug/L (85795)	Naphth-alene, water, unfltrd ug/L (34696)	Methyl n-butyl ketone, water, unfltrd ug/L (77103)	n-Butyl benzene water, unfltrd ug/L (77342)	n-propyl-benzene water, unfltrd ug/L (77224)	o-Xylene, water, unfltrd ug/L (77135)
May													
22...	<.50	<.4	<.04	<.4	<1.0	<.2	<.04	<.06	<.5	<.4	<.1	<.04	<.04

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 19 of 20
[Remark codes: <, less than; E, estimated.]

Date	sec-Butyl-benzene water, unfltrd ug/L (77350)	Styrene water, unfltrd ug/L (77128)	t-Butyl ethyl ether, water, unfltrd ug/L (50004)	Methyl t-butyl ether, water, unfltrd ug/L (78032)	tert-Butyl-benzene water, unfltrd ug/L (77353)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tetra-chloro-methane water, unfltrd ug/L (32102)	Tetra-hydro-furan, water, unfltrd ug/L (81607)	Toluene water, unfltrd ug/L (34010)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	trans-1,3-Di-chloro-propene water, unfltrd ug/L (34699)	trans-1,4-Di-chloro-2-butene, wat unf ug/L (73547)	Tri-bromo-methane water, unfltrd ug/L (32104)
May													
22...	<.06	<.04	<.03	<.1	<.08	E.02	<.06	<1	<.02	<.03	<.09	<.7	<.10

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
Part 20 of 20
[Remark codes: <, less than; E, estimated.]

Date	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Tri-chloro-fluoro-methane water, unfltrd ug/L (34488)	Tri-chloro-methane water, unfltrd ug/L (32106)	Vinyl chlor-ide, water, unfltrd ug/L (39175)	Di-chlor-vos, water, fltrd, ug/L (38775)
May					
22...	<.04	<.08	<.02	<.1	<.01