

APPENDIX A

Index of Joint Exhibits

JOINT EXHIBIT NO.	DESCRIPTION
J-1	Advisory Comm. on Water Information, Subcomm. on Ground Water, <i>A National Framework for Ground-Water Monitoring in the United States</i> (rev. July 2013)
J-2	Alley, W.M., Reilly, T.E., Franke, O.L., <i>Sustainability of Ground-Water Resources</i> , USGS Circular 1186 (1999)
J-3	Arthur, J. Kerry and Taylor, R. E., <i>Definition of the Geohydrologic Framework and Preliminary Simulation of Ground-Water Flow in the Mississippi Embayment Aquifer System, Gulf Coastal Plain, United States</i> , USGS Water-Resources Investigations Report 86-4364 (1990) (with Plates 1-2)
J-4	Arthur, J. Kerry and Taylor, Richard E., <i>Ground-Water Flow Analysis of the Mississippi Embayment Aquifer System, South-Central United States</i> , USGS Professional Paper 1416-I (1998) (with Plates 1-9)
J-5	Arthur, J. Kerry and Taylor, Richard E., <i>Ground-Water Flow Analysis of the Mississippi Embayment Aquifer System, South-Central United States</i> , USGS Open-File Report 91-451 (1991)

J-6	Barlow, J.R.B., Clark, B.R., <i>Simulation of Water-Use Conservation Scenarios for the Mississippi Delta Using an Existing Regional Groundwater Flow Model</i> , USGS Scientific Investigations Report 2011-5019 (2011)
J-7	Bell, Edwin A. and Nyman, Dale J., <i>Flow Pattern and Related Chemical Quality of Ground Water in the 500-Foot Sand in the Memphis Area, Tennessee</i> , USGS Water-Supply Paper 1853 (1968) (with plates 1-4)
J-8	Bradley, Michael W., <i>Ground-Water Hydrology and the Effects of Vertical Leakage and Leachate Migration on Ground-Water Quality Near the Shelby County Landfill, Memphis, Tennessee</i> , USGS Water-Resources Investigations Report 90-4075 (1991)
J-9	Bradley, Michael, Carmichael, Jack and Kingsbury, Jim, USGS, <i>Groundwater Network and Water-level Response in the Memphis Area</i> (June 23, 2015)
J-10	Brahana, J.V., <i>Digital Ground-Water Model of the Memphis Sand and Equivalent Units, Tennessee-Arkansas-Mississippi</i> (1981)
J-11	Brahana, J.V., <i>Ground Water Supply, Chapter 3 – Final Report, Memphis Metropolitan Area Urban Water Resources Study</i> , USGS Report (1981)

J-12	Brahana, J.V., <i>Two-Dimensional Digital Ground-Water Model of the Memphis Sand and Equivalent Units, Tennessee-Arkansas-Mississippi</i> , USGS Open-File Report 82-99 (1982)
J-13	Brahana, J. V., Parks, W. S., and Gaydos, M.W., <i>Quality of Water from Freshwater Aquifers and Principal Well Fields in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 87-4052 (1987)
J-14	Brahana, J. V. and Mesko, T. O., <i>Hydrogeology and Preliminary Assessment of Regional Flow in the Upper Cretaceous and Adjacent Aquifers in the Northern Mississippi Embayment</i> , USGS Water-Resources Investigations Report 87-4000 (1988)
J-15	Brahana, J.V. and Broshears, R.E., <i>Hydrogeology and Ground-Water Flow in the Memphis and Fort Pillow Aquifers in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 89-4131 (2001)
J-16	Busby, J.F., Kimball, B.A., Downey, J.S., Peter, K.D., <i>Geochemistry of water in aquifers and confining units of the Northern Great Plains in parts of Montana, North Dakota, South Dakota, and Wyoming</i> , USGS Professional Paper 1402-F (1995) (with Plates 1-2)
J-17	Carmichael, John K., Kingsburg, James A., Larsen, Daniel, and Schoefnacker,

	Scott, <i>Preliminary Evaluation of the Hydrogeology and Groundwater Quality of the Mississippi River Valley Alluvial Aquifer and Memphis Aquifer at the Tennessee Valley Authority Allen Power Plants, Memphis, Shelby County, Tennessee</i> , USGS Open-File Report 2018-1097 (2018)
J-18	Clark, Brian R. and Hart, Rheannon M., <i>The Mississippi Embayment Regional Aquifer Study (MERAS): Documentation of a Groundwater-Flow Model Constructed to Assess Water Availability in the Mississippi Embayment</i> , USGS Scientific Investigations Report 2009-5172 (2009)
J-19	Clark, B.R., Hart, R.M., Gurdak, J.J., <i>Groundwater Availability of the Mississippi Embayment</i> , USGS Professional Paper 1785 (2011)
J-20	Clark, B.R., Westerman, D.A., Fugitt, D.T., <i>Enhancements to the Mississippi Embayment Regional Aquifer Study (MERAS) Groundwater-Flow Model and Simulations of Sustainable Water-Level Scenarios</i> , USGS Scientific Investigations Report 2013-5161 (2013)
J-21	Crider, A.F. and Johnson, L.C., <i>Summary of the Underground Water Resources of Mississippi</i> , USGS Water-Supply and Irrigation Paper No. 159 (1906)
J-22	Criner, J. H., Sun, P-C. P., and Nyman, D. J., <i>Hydrology of Aquifer Systems in the</i>

	<i>Memphis Area, Tennessee</i> , USGS Water-Supply Paper 1779-O (1964) (with Plates 1-7)
J-23	Criner, James H. and Armstrong, Clarence A., <i>Ground-Water Supply of the Memphis Area</i> , USGS Circular 408 (1958) (with Plate 1)
J-24	Criner, James H. and Parks, William S., <i>Historic Water-Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee: 1886-1975</i> , USGS Water-Resources Investigations Report 76-67 (1976)
J-25	Cushing, E. M., Boswell, E. H., and Hosman, R. L., <i>General Geology of the Mississippi Embayment</i> , USGS Professional Paper 448-B (1964) (with Plates 1-2)
J-26	Czarnecki, J.B., Gillip, J.A., Jones, P.M., Yeatts, D.S., <i>Groundwater-Flow Model of the Ozark Plateaus Aquifer System, Northwestern Arkansas, Southeastern Kansas, Southwestern Missouri, and Northeastern Oklahoma</i> , USGS Scientific Investigation Report 2009-5148 (2010)
J-27	Fetter, C.W., <i>Applied Hydrogeology, 4th Edition</i> (Upper Saddle River, NJ: Prentice Hall, 2001)
J-28	Freethy, G.W., Cordy, G.E., <i>Geohydrology of Mesozoic rocks in the upper Colorado River basin in Arizona, Colorado, New Mexico, Utah, and Wyoming</i> ,

	<i>excluding the San Juan Basin</i> , USGS Professional Paper 1411-C (1991) (with Plates 1-6)
J-29	Freeze, R.A., and Cherry, J.A., <i>Groundwater</i> (Englewood Cliffs, NJ: Prentice Hall, 1979)
J-30	Fuller, M., <i>Contributions to the Hydrology of Eastern United States</i> , USGS Water-Supply and Irrigation Paper No. 102 (1903)
J-31	Glenn, L.C., <i>Underground Waters of Tennessee and Kentucky West of Tennessee River and of an Adjacent Area in Illinois</i> , USGS Water-Supply and Irrigation Paper No. 164 (1906)
J-32	Gonthier, Joseph B., <i>A Description of Aquifer Units in Eastern Oregon</i> , USGS Water-Resources Investigations Report 84-4095 (1985) (with Plates 1-4)
J-33	Graham, David D., <i>Potentiometric Map of the Memphis Sand in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 79-80 (1978)
J-34	Graham, David D., <i>Effects of Urban Development on the Aquifers in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 82-4024 (1982) (with Plate 1)
J-35	Graham, D.D. and Parks, W.S., <i>Potential for Leakage Among Principal Aquifers in the Memphis Area, Tennessee</i> , USGS

	Water-Resources Investigations Report 85-4295 (1986)
J-36	Hart, R.M., Clark, B.R., Bolyard, S.E., <i>Digital Surfaces and Thicknesses of Selected Hydrogeologic Units within the Mississippi Embayment Regional Aquifer Study (MERAS)</i> , USGS Scientific Investigations Report 2008-5098 (2008)
J-37	Hart, R.M., Clark, B.R., <i>Geophysical Log Database for the Mississippi Embayment Regional Aquifer Study (MERAS)</i> , USGS Scientific Investigations Report 2008-5192 (2008)
J-38	Haugh, C.J., <i>Effects of Groundwater Withdrawals Associated with Combined-Cycle Combustion Turbine Plants in West Tennessee and Northern Mississippi</i> , USGS Scientific Investigations Report 2012-5072 (2012)
J-39	Haugh, Connor J., <i>Evaluation of Effects of Groundwater Withdrawals at the Proposed Allen Combined-Cycle Combustion Turbine Plant, Shelby County, Tennessee</i> , USGS Scientific Investigations Report 2016-5072 (2016)
J-40	Heath, Ralph C., <i>Basic Ground-Water Hydrology</i> , USGS Water-Supply Paper 2220 (Revised 2004)
J-41	Hosman, R. L., Long, A. T., Lambert, T. W., and others, <i>Tertiary Aquifers in the Mississippi Embayment</i> , USGS

	Professional Paper 448-D (1968) (with Plates 1-8)
J-42	Hosman, R.L.; Weiss, J.S., <i>Geohydrologic Units of the Mississippi Embayment and Texas Coastal Uplands Aquifer Systems, South-Central United States</i> , USGS Professional Paper 1416-B (1991) (with Plates 1-19)
J-43	Hosman, R. L., <i>Regional Stratigraphy and Subsurface Geology of Cenozoic Deposits, Gulf Coastal Plain, South-Central United States</i> , USGS Professional Paper 1416-G (1996) (with Plates 1-14)
J-44	Jones, L. Elliott and Torak, Lynn J., U.S. Dep't of Interior, <i>Simulated Effects of Impoundment of Lake Seminole on Ground-Water Flow in the Upper Floridan Aquifer in Southwestern Georgia and Adjacent Parts of Alabama and Florida</i> , USGS Scientific Investigations Report 2004-5077 (2004)
J-45	Jorgenson, D.G., Helgesen, J.O., Imes, J.L., <i>Regional aquifers in Kansas, Nebraska, and parts of Arkansas, Colorado, Missouri, New Mexico, Oklahoma, South Dakota, Texas, and Wyoming; geohydrologic framework</i> , USGS Professional Paper 1414-B (1993) (with Plates 1-25)
J-46	Kahle, Sue C., Caldwell, Rodney R. and Bartolino, James R., U.S. Dep't of Interior, <i>Compilation of Geologic, Hydrologic, and Ground-Water Flow Modeling Information for the Spokane Valley-Rathdrum</i>

	<i>Prairie Aquifer, Spokane County, Washington, and Bonner and Kootenai Counties, Idaho</i> , USGS Scientific Investigations Report 2005-5227 (2005) (with Plates 1-2)
J-47	Kahle, S.C., Bartolino, J.R., <i>Hydrogeologic Framework and Ground-Water Budget of the Spokane Valley-Rathdrum Prairie Aquifer, Spokane County, Washington, and Bonner and Kootenai Counties, Idaho</i> , USGS Scientific Investigation Report 2007-5041 (2007) (with plates 1-2)
J-48	Kingsbury, James A., <i>Altitude of the Potentiometric Surface, September 1990, and Historic Water-Level Changes in the Memphis Aquifer in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 92-4002 (1992)
J-49	Kingsbury, James A. and Parks, William S., <i>Hydrogeology of the Principal Aquifers and Relation of Faults to Interaquifer Leakage in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 93-4075 (1993) (with Plates 1-5)
J-50	Kingsbury, James A., <i>Altitude of the Potentiometric Surfaces, September 1995, and Historical Water-Level Changes in the Memphis and Fort Pillow Aquifers in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 96-4278 (1996)
J-51	Konikow, L.F., <i>Hydrogeologic Considerations for an Interstate Ground-Water</i>

	<i>Compact on the Madison Aquifer, Northern Great Plains</i> , USGS Open-File Report 78-138 (1978)
J-52	Lloyd, Jr., O.B. and Lyke, W.L., <i>Ground Water Atlas of the United States, Segment 10: Illinois, Indiana, Kentucky, Ohio, Tennessee</i> , USGS Hydrological Investigations Atlas 730-K (1995)
J-53	Masterson, John P., Pope, Jason P., Monti, Jr., Jack, Nardi, Mark R., Finkelstein, Jason S. and McCoy, Kurt J., <i>Hydrogeology and Hydrologic Conditions of the Northern Atlantic Coastal Plain Aquifer System From Long Island, New York, to North Carolina</i> , USGS Scientific Investigations Report 2013-5133 (Sept. 2015)
J-54	Masterson, John P., Pope, Jason P., Fienen, Michael N., Monti, Jr., Jack, Nardi, Mark R. and Finkelstein, Jason S., <i>Assessment of Groundwater Availability in the Northern Atlantic Coastal Plain Aquifer System From Long Island, New York, to North Carolina</i> , USGS Professional Paper 1829 (2016)
J-55	Miller, J.A., <i>The Ground Water Atlas of the United States</i> , USGS Hydrologic Atlas 730 (2000)
J-56	Mississippi Dept. of Environmental Quality, <i>City of Southaven water diversion / withdrawal permit from the Sparta Aquifer System for municipal use</i> , Office of

	Land and Water Resources. Permit No. MS-GW-15732 (March 8, 2004)
J-57	Mississippi Dept. of Environmental Quality, <i>Annual Report for Fiscal Year 2014</i> (2014)
J-58	Moore, Gerald K., <i>Geology and Hydrology of the Claiborne Group in Western Tennessee</i> , USGS Water-Supply Paper 1809-F (1965) (with Plates 1-8)
J-59	Nyman, Dale J., <i>Predicted Hydrologic Effects of Pumping from the Lichterman Well Field in the Memphis Area, Tennessee</i> , USGS Water-Supply Paper 1819-B (1965) (with Plate 1)
J-60	Parks, William S. and Lounsbury, Richard W., <i>Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee</i> , USGS Water-Resources Investigations Report 4-76 (1976)
J-61	Parks, W. S. and Carmichael, J. K., <i>Geology and Ground-Water Resources of the Fort Pillow Sand in Western Tennessee</i> , USGS Water-Resources Investigations Report 89-4120 (1989) (with Plates 1-2)
J-62	Parks, W. S. and Carmichael, J. K., <i>Altitude of Potentiometric Surface, Fall 1985, and Historic Water-Level Changes in the Memphis Aquifer in Western Tennessee</i> , USGS Water-Resources Investigations Report 88-4180 (1990) (with Plate 1)

J-63	Parks, W.S. and Carmichael, J.K., <i>Geology and Ground-Water Resources of the Memphis Sand in Western Tennessee</i> , USGS Water-Resources Investigations Report 88-4182 (1990) (with Plates 1-2)
J-64	Parks, William S., <i>Hydrogeology and Preliminary Assessment of the Potential for Contamination of the Memphis Aquifer in the Memphis Area, Tennessee</i> , USGS Water-Resources Investigations Report 90-4092 (1990) (with Plates 1-4)
J-65	Parks, William S., Mirecki, June E., and Kingsbury, James A., <i>Hydrogeology, Ground-Water Quality, and Source of Ground Water Causing Water-Quality Changes in the Davis Well Field at Memphis, Tennessee</i> , USGS Water-Resources Investigations Report 94-4212 (1995)
J-66	Payne, J. N., <i>Hydrologic Significance of the Lithofacies of the Sparta Sand in Arkansas, Louisiana, Mississippi and Texas</i> , USGS Professional Paper 569-A (1968) (with Plates 1-10)
J-67	Reed, J.E., <i>Analog Simulation of Water-Level Declines in the Sparta Sand, Mississippi Embayment</i> , USGS Hydrologic Investigations HA-434 (1972)
J-68	Reilly, Thomas E., Dennehy, Kevin F., Alley, William M., and Cunningham, William L., <i>Ground-Water Availability in the United States</i> , USGS Circular 1323 (2008)

J-69	Renken, R.A., <i>Hydrogeology of the Southeastern Coastal Plain aquifer system in Mississippi, Alabama, Georgia, and South Carolina</i> , USGS Professional Paper 1410-B (1996) (with plates 1-42)
J-70	Removed as duplicate – see exhibit J-55, section 5
J-71	Schrader, Tony P., U.S. Dep't of Interior, <i>Potentiometric Surface in the Sparta-Memphis Aquifer of the Mississippi Embayment, Spring 2007</i> , USGS Scientific Investigations Map 3014 (2008)
J-72	Terry, J.E., Hosman, R. L., and Bryant, C. T., <i>Summary Appraisals of the Nation's Ground-Water Resources – Lower Mississippi Region</i> , USGS Professional Paper 813-N (1979)
J-73	U.S. Dep't of Interior, <i>National Water Summary 1983—Hydrologic Events and Issues</i> , USGS Water-Supply Paper 2250 (1984)
J-74	US Geological Survey, <i>Mississippi Alluvial Plain (MAP) Regional Water Availability Study</i> (November 23, 2016) (Excerpts), https://www2.usgs.gov/water/lowermississippigulf/map/index.html
J-75	Withdrawn
J-76	Waldron, Brian, Larsen, Daniel, et al., <i>Mississippi Embayment Regional Groundwater Study</i> , EPA 600/R-10/130 (2011) (with Plates 1-7)

J-77	Wells, F. G., <i>Ground-Water Resources of Western Tennessee</i> , USGS Water-Supply Paper 656 (1933) (with Plates 1-16)
J-78	Williamson, A.K., Grubb, H.F., Weiss, J.S., <i>Ground-Water Flow in the Gulf Coast Aquifer Systems, South Central United States – A Preliminary Analysis</i> , USGS Water-Resources Investigations Report 89-4071 (1990) (with Plates 1-4)
J-79	Winter, Thomas C., Harvey, Judson W., Franke, O. Lehn and Alley, William M., <i>Ground Water and Surface Water: A Single Resource</i> , USGS Circular 1139 (1998)
J-80	Young, H.L., Siegel, D.I., <i>Hydrogeology of the Cambrian-Ordovician aquifer system in the northern Midwest, United States; Regional aquifer-system analysis</i> , USGS Professional Paper 1405-B (1992) (with Plate 1)

APPENDIX B

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P-3	Miss. Code Ann. § 51-3-3, Definitions
P-4	Miss. Code Ann. § 51-3-5, Water use permit required
P-5	Miss. Admin. Code § 11-7:1.1 through 7:1.7
P-6	U.S. Geological Survey Map of Principal Aquifers of the United States
P-7-50	Removed and submitted as Joint Exhibits
P-51	James Eddie Outlaw, Jr., <i>A Ground Water Flow Analysis of the Memphis Sand Aquifer in the Memphis, Tennessee Area</i> (1994)
P-52	"Memphis Water Termed 'Sweetest in the World,'" <i>Water World</i> (March 2003)
P-53	Ward Archer, Jr., "Liquid Assets," <i>Memphis</i> magazine (March 2005)
P-54	Palmer Water Pumping Station Wellfield (map)

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P-57	Excerpt from Well Field Maps to which scale has been added by GMA and well location information including address, longitude and latitude
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P-59	Charles T. Branch, P.E., letter to Jim Hanes (Tennessee Department of Environment and Conservation), dated June 26, 1995
P-60	Jamie Crawford (Chief, Ground Water Planning Branch – MDEQ) letter to Charlie Pickel (MLGW), dated June 6, 1995 (with attachments)
P-61	MLGW Water Scanner Team Spring 2003 Presentation
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P-66	Milton H. Hamilton, Jr. letter to Jon Kinsey and Willie W. Herenton dated February 16, 2000 (with attachments)
P-67	Alonzo Weaver Interdepartmental Memorandum to Larry Thompson, Max Williams and Charlie Pickel dated April 25, 2000
P-68	Jerry Collins Interoffice Memorandum to Dr. Willie W. Herenton dated April 3, 2000
P-69	Memorandum from Willie W. Herenton, Ph.D. to Herman Morris dated April 4, 2000 (with attachments)
P-70	Alonzo Weaver Interdepartmental Memorandum to Larry Thompson, Max Williams, Charlie Pickel dated April 25, 2000 (with attached Willie W. Herenton, Ph.D. Interoffice Memorandum to Herman Morris dated April 4, 2000)
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P-87	Mississippi Department of Environmental Quality Water Use Permit issued to City of Southaven and related proof of publication documents (collective)
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	water use permits issued to City of Southaven
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P-101	John G. Morgan (Comptroller of the Tennessee Treasury, Office of Research), <i>Special Report – Tennessee’s Water Supply: Toward a Long-Term Water Policy for Tennessee</i> (March 2002) (Pickel Dep. Exh. 12)
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P-122	Brahana Dep. Exh. 11: Map "Altitude of the water level surface in the Memphis Sand, Fall 1980, and general direction of ground-water flow"
P-123	Brahana Dep. Exh. 12: Map (same map as Ex. 11; different Bates number)
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P-125	Brahana Dep. Exh. 14: Parks USGS WRI 4-76 "Summary of Some Current and Possible Future Environmental Problems Related to Geology and Hydrology at Memphis, Tennessee"
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P-129	Brahana Dep. Exh. 18: Map “Figure 41 – Flow net of the Memphis Sand, 1943,” prepared by J. V. Brahana
P-130	Brahana Dep. Exh. 19: Map “Figure 40 – Flow net of the Memphis Sand, 1964 (after Bell & Nyman, 1968)” prepared by J. V. Brahana
P-131	Brahana Dep. Exh. 20: Maps “Figure 39 – Flow net of the Memphis Sand, 1980” and various figures
P-132	Brahana Dep. Exh. 21: Criner USGS Report cover page only, “Approximate Potentiometric Surface for the Aquifer Units A2, A3 & A4 . . . ”
P-133	Brahana Dep. Exh. 22: Criner USGS WRI 76-67 cover page and table of contents only, “Historic Water Level Changes and Pumpage from the Principal Aquifers of the Memphis Area, Tennessee 1886 – 1975”
P-134	Brahana Dep. Exh. 23: Criner 1779-O cover page and table of contents only, “Hydrology of Aquifer Systems in the Memphis Area, Tennessee”
P-135	Brahana Dep. Exh. 24: Nyman 1819-B cover page and table of contents only, “Predicted Hydrologic Effects of Pumping from the Lichterman Well Field in Memphis Area, Tennessee”

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P-136	Brahana Dep. Exh. 25: Wells 1933, cover page and table of contents only, "Ground Water Resources of Western Tennessee"
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P-138	Brahana Dep. Exh. 27: Bell USGS 1853, cover page and table of contents only, "Flow Pattern and Related Chemical Quality of Ground Water in the 500-Foot Sand in the Memphis Area, Tennessee"
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P-143	Gentry Dep. Exh. 1: Gentry Curriculum Vitae
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P-146	Gentry Dep. Exh. 4: David Lewis Feldman, Ph.D. and Julia O. Elmendorf, J.D., <i>Final Report – Water Supply Challenges Facing Tennessee: Case Study Analyses and the Need for Long-Term Planning</i> (June 2000) prepared for the Environmental Policy Office, Tennessee Department of Environment and Conservation, Nashville, Tennessee
P-147	Gentry Dep. Exh. 5: Map of potentiometric surface of Memphis Sands in 1988 (Parks, 1990)
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P-187	“Generalized Geology of Embayment and Pre-Development Potentiometric Surface of Middle Claiborne Aquifer,” Figure No. 4 from 07/31/2017 Addendum #1 to June 2017 <i>Update Report on Diversion and Withdrawal of Groundwater from Northern Mississippi Into the State of Tennessee</i> prepared by David A. Wiley, P.G., WSP
P-188	“1886 Estimated Potentiometric Surface Map for Predevelopment Conditions,” Figure No. 5 from 07/31/2017 Addendum #1 to June 2017 <i>Update Report on Diversion and Withdrawal of Groundwater from Northern Mississippi Into the State of Tennessee</i>

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P-189	“Pre-Development and 2007 Water Budget in DeSoto County Mississippi from USGS MERAS Model,” Figure No. 6 from 07/31/2017 Addendum #1 to June 2017 <i>Update Report on Diversion and Withdrawal of Groundwater from Northern Mississippi Into the State of Tennessee</i> prepared by David A. Wiley, P.G., WSP
P-190	“Heads Above and Below the Top of MSSA Aquifer from Equal Amounts of Pumpage Occurring in Mississippi and Tennessee (Based on 2016 MLGW and DeSoto County Estimates)” Figure No. 7 from 07/31/2017 Addendum #1 to June 2017 <i>Update Report on Diversion and Withdrawal of Groundwater from Northern Mississippi Into the State of Tennessee</i> prepared by David A. Wiley, P.G., WSP
P-191	“Figure 1: Groundwater Distribution in the Shallow Subsurface (modified from Alley et al., 1999),” from p. 7 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared by Richard K. Spruill, Ph.D., P.G., Principal

	Hydrogeologist, Groundwater Management Associates, Inc.
P-192	“Figure 2: Confined versus Unconfined Aquifers and Artesian Wells,” from p. 9 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.
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P-194	“Figure 4: Stratigraphic Correlation of Paleocene and Younger Sedimentary Units and Aquifers in Northern Mississippi and Western Tennessee (Haugh, 2016, Table 1),” from p. 14 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis,</i>

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P-195	“Figure 5: Surface Distribution of Regional Aquifers and Confining Unites in the Mississippi Embayment and Gulf Coastal Plain (Grubb, 1998, Figure 7),” from p. 15 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.
P-196	“Figure 6: Cones of Depression and Groundwater Flow Paths Associated with Municipal Well Fields in Shelby County, Tennessee (LB&G, 2014, Figure 31),” from p. 18 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.

P-197	<p>“Figure 7: Block Diagram Illustrating Surface Recharge and Groundwater Flow Paths within the Sparta-Memphis Sand Aquifer in Northern Mississippi (LB&G, 2014, Figure 6),” from p. 19 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i>, prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.</p>
P-198	<p>“Figure 8: Schematic West-East Cross-Section of the Geology of the Mississippi Embayment and Generalized Pre-Development Groundwater Flow Patterns (modified from Figure 4 of Hart et al., 2008),” from p. 20 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i>, prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.</p>
P-199	<p>“Figure 9: Pre-Development Groundwater Equipotential Map and Flow Patterns in the Middle Claiborne Aquifer (modified from Plate 5 of Arthur and Taylor, 1998),” from p.</p>

	21 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared June 30, 2017, by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.
P-200	“Figure 10: Post-Development Groundwater Equipotential Map and Flow Patterns in the Middle Claiborne Aquifer (modified from Plate 7 of Arthur and Taylor, 1998),” from p. 22 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.
P-201	“Figure 11: Unconfined Aquifers and Local Flow Systems (Modified from Grannemann et al., 2000),” from p. 25 of June 30, 2017, <i>Expert Report, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i> , prepared by Richard K. Spruill, Ph.D., P.G., Principal

	Hydrogeologist, Groundwater Management Associates, Inc.
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P-205	<p>“Figure 3: Criner and Parks (1976) Equipotential Map for Confined Portions of the Middle Claiborne Aquifer (aka, SMS or Memphis Aquifer) in 1886,” from p. 12 of July 31, 2017, <i>Expert Report, Addendum #1, Hydrogeologic Evaluation and Opinions for State of Mississippi versus State of Tennessee, City of Memphis, and Memphis Light, Gas & Water Division</i>, prepared by Richard K. Spruill, Ph.D., P.G., Principal Hydrogeologist, Groundwater Management Associates, Inc.</p>
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D-149	Mississippi's Responses to Memphis and MLGW's First Set of Interrogatories
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D-175-183	Removed and submitted as Joint Exhibits
D-184	Barksdale, HC; Greenman, DW; Lang, SM; Hilton, GS; Outlaw, DE, <i>Ground-water Resources in the Tri-state Region Adjacent to the Lower Delaware River</i> , New Jersey Department of Conservation and Economic Development, Division of Water Policy and Supply Special Report 13 (1958)
D-185-189	Removed and submitted as Joint Exhibits
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D-193	Rebuttal Expert Report of David Langseth, Sc.D., P.E., D. WRE (July 28, 2017)
D-194	Expert Report of Brian Waldron, Ph.D (June 30, 2017)
D-195	Rebuttal Expert Report of Brian Waldron, Ph.D (July 31, 2017)
D-196	Sur-Rebuttal Expert Report of Brian Waldron, Ph.D. (August 30, 2017)
D-197	Expert Report of Steven P. Larson (June 30, 2017)
D-198	Expert Rebuttal Report of Steven P. Larson (July 31, 2017)

APPENDIX D**Index of Special Master Public Docket****Mississippi v. Tennessee, No. 143, Original**

The official docket sheet for this case is maintained by the United States Court of Appeals for the Sixth Circuit. It is available online at <https://www.ca6.uscourts.gov/special-master>.

Docket No.	Date	Filings
1	2014 Jun 6	Motion for leave to file a bill of complaint filed
2	2014 Jul 17	Order extending time to file response to motion for leave to file a bill of complaint to and including September 5, 2014, for all respondents
3	2014 Sept 5	Brief of respondent City of Memphis, Tennessee, and Memphis Light, Gas and Water Division in opposition filed
4	2014 Sept 5	Brief of respondent Tennessee in opposition filed
5	2014 Sept 24	DISTRIBUTED for Conference of October 17, 2014
6	2014 Sept 24	Reply of petitioner Mississippi, Plaintiff filed (Distributed)
7	2014 Oct 1	DISTRIBUTED for Conference of October 17, 2014

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8	2014 Oct 20	The Solicitor General is invited to file a brief in this case expressing the views of the United States
9	2015 May 12	Brief amicus curiae of United States filed
10	2015 May 22	Supplemental brief of Mississippi, Plaintiff filed
11	2015 Jun 9	DISTRIBUTED for Conference of June 25, 2015
12	2015 Jun 29	Motion for leave to file a bill of complaint GRANTED. Defendants are allowed 30 days within which to file an answer
13	2015 Jul 20	The time to file an answer has been extended for all defendants to and including September 14, 2015
14	2015 Sept 11	Answer of Defendants City of Memphis, Tennessee, and Memphis Light, Gas & Water Division filed
15	2015 Sept 14	Answer of Defendant State of Tennessee filed
16	2015 Sept 16	DISTRIBUTED for Conference of October 9, 2015
17	2015 Nov 10	It is ordered that the Honorable Eugene E. Siler, Jr., of London, Kentucky, is appointed Special Master in this case with authority to fix the time and conditions

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		for the filing of additional pleadings, to direct subsequent proceedings, to summon witnesses, to issue subpoenas, and to take such evidence as may be introduced and such as he may deem it necessary to call for. The Special Master is directed to submit Reports as he may deem appropriate. The cost of printing his Reports, and all other proper expenses, including travel expenses shall be submitted to the Court.
18	2015 Nov 18	Oath of Special Master filed
19	2015 Dec 11	Notice of Initial Conference
20	2016 Jan 15	Notice of Date and Time of Initial Conference
21	2016 Jan 26	Initial Conference Held
22	2016 Jan 27	Email Service List
23	2016 Feb 17	Agreed Proposed Order on Initial Conference
24	2016 Feb 18	Letter Re: Order on Initial Conference
25	2016 Feb 18	Order on Initial Conference

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26	2016 Feb 18	Updated Email Service List
27	2016 Feb 24	Letter Re: Motion of Memphis and Memphis Light, Gas & Water Division for Judgment on the Pleadings
28	2016 Feb 24	Motion of Memphis and Memphis Light, Gas & Water Division for Judgment on the Pleadings
29	2016 Feb 25	Letter Re: Motion of Tennessee for Judgment on the Pleadings
30	2016 Feb 25	Motion of Tennessee for Judgment on the Pleadings
31	2016 Mar 3	Letter Re: Brief of the United States as Amicus Curiae in Support of Motions of Defendants for Judgment on the Pleadings
32	2016 Mar 3	Brief of the United States as Amicus Curiae in Support of the Motions of Defendants for Judgment on the Pleadings
33	2016 Mar 22	Letter Re: Agreed Proposed Order Modifying the Briefing Schedule
34	2016 Mar 22	Agreed Proposed Order Modifying the Briefing Schedule
35	2016 Mar 22	Letter Re: Order Modifying the Briefing Schedule
36	2016 Mar 22	Order Modifying the Briefing Schedule

37	2016 Apr 4	Letter Re: Agreed Proposed Order Modifying the Briefing Schedule
38	2016 Apr 4	Agreed Proposed Order Modifying the Briefing Schedule
39	2016 Apr 4	Letter Re: Order Modifying the Briefing Schedule
40	2016 Apr 4	Order Modifying the Briefing Schedule
41	2016 Apr 6	Letter Re: Response of Mississippi in Opposition to the Motions of Defendants for Judgment on the Pleadings and Motion of Mississippi to Exclude
42	2016 Apr 6	Response of Mississippi in Opposition to the Motions of Defendants for Judgment on the Pleadings
43	2016 Apr 6	Motion of Mississippi to Exclude
44	2016 Apr 28	Letter Re: Reply of Memphis and Memphis Light, Gas & Water Division in Support of Their Motion for Judgment on the Pleadings and Response of Memphis and Memphis Light, Gas & Water Division in Opposition to the Motion of Mississippi to Exclude
45	2016 Apr 28	Reply of Memphis and Memphis Light, Gas & Water Division in Support of Their Motion for Judgment on the Pleadings

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46	2016 Apr 28	Response of Memphis and Memphis Light, Gas & Water Division in Opposition to the Motion of Mississippi to Exclude
47	2016 Apr 28	Letter Re: Memorandum of the United States as Amicus Curiae in Opposition to the Motion of Mississippi to Exclude
48	2016 Apr 28	Memorandum of the United States as Amicus Curiae in Opposition to the Motion of Mississippi to Exclude
49	2016 Apr 28	Letter Re: Reply of Tennessee in Support of Its Motion for Judgment on the Pleadings and Response of Tennessee in Opposition to the Motion of Mississippi to Exclude
50	2016 Apr 28	Reply of Tennessee in Support of Its Motion for Judgment on the Pleadings
51	2016 Apr 28	Response of Tennessee in Opposition to the Motion of Mississippi to Exclude
52	2016 May 5	Letter Re: Reply of Mississippi in Support of Its Motion to Exclude
53	2016 May 5	Reply of Mississippi in Support of Its Motion to Exclude

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54	2016 Aug 12	Letter Re: Memorandum of Decision and Case Management Order
55	2016 Aug 12	Memorandum of Decision
56	2016 Oct 12	Order
57	2016 Oct 26	Case Management Order
58	2017 May 25	Order
59	2017 July 19	Order
60	2017 Aug 9	Order
61	2017 Nov 1	Case Management Order
62	2017 Dec 13	Order Extending Case Management Plan
63	2018 Feb 20	Order Amending Certain Deadlines in the Case Management Order
64	2018 Feb 28	Plaintiff's and Defendants' Joint Statement of Stipulated and Contested Facts
65	2018 Mar 20	Joint Proposed Pre-Hearing Scheduling Order
66	2018 Mar 20	Tennessee Letter Brief re: Pre-Hearing Scheduling Order
67	2018 Mar 20	Mississippi Letter Brief re: Pre-Hearing Scheduling Order

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68	2018 Mar 22	Mississippi Reply Brief & Objection re: Pre-Hearing Scheduling Order
69	2018 Apr 11	Pre-Hearing Scheduling Order
69 (Corrected)	2018 Apr 12	Corrected Pre-Hearing Scheduling Order
70	2018 Jun 1	Defendants' Motion for Summary Judgment
70 (Exhibits)	2018 June 1	Exhibits attached to Defendants' Motion for Summary Judgment
71	2018 July 6	Plaintiff's Response to Defendants' Motion for Summary Judgment
71 (Exhibits)	2018 July 6	Exhibits attached to Plaintiff's Response to Defendants' Motion for Summary Judgment
72	2018 July 24	Defendants' Reply Brief in support of Summary Judgment
72 (Exhibit)	2018 July 24	Exhibit 19 submitted with Defendants' Reply
73	2018 Nov 2	Plaintiff's Expert Credentials
74	2018 Nov 2	Defendant MLGW's Expert Credentials
75	2018 Nov 2	Defendant State of Tennessee's Expert Credentials
76	2018 Nov 2	Plaintiff's Motion to Exclude (with Exhibits)

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77	2018 Nov 2	Defendants' Motion To Exclude Plaintiff's Expert
78	2018 Nov 2	Defendants' Motion in Limine
79	2018 Nov 2	Defendants' Motion to Exclude Plaintiff's Expert
80	2018 Nov 2	Defendants' Motion to Exclude Deposition Testimony
81	2018 Nov 2	Defendants' Motion to Exclude Irrelevant Evidence
82	2018 Nov 2	Defendants' Motion to Exclude Exhibits
83	2018 Nov 2	Exhibits in Support of Defendants' Motions in Limine
84	2018 Nov 20	Plaintiff's Response to Defendants' Motion to Exclude
85	2018 Nov 20	Plaintiff's Response to Exclude Two Aquifers
86	2018 Nov 20	Plaintiff's Response to Exclude Spruill Testimony
87	2018 Nov 20	Plaintiff's Response to Exclude Designated Deposition Testimony
88	2018 Nov 20	Plaintiff's Response to Exclude Irrelevant Evidence
89	2018 Nov 20	Defendants' Joint Response to Plaintiff's Motion to Exclude
90	2018 Nov 27	Order Setting Preliminary Conference

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91	2018 Nov 27	Order on Motion to Withdraw
92	2018 Nov 29	Letter Re: Memorandum of Decision
93	2018 Nov 29	Memorandum of Decision
94	2018 Dec 7	Defendants' Reply to Exclude Irrelevant Evidence
95	2018 Dec 7	Defendants' Reply to Exclude Plaintiff's Expert
96	2018 Dec 7	Defendants' Reply to Exclude Plaintiff's Expert
97	2018 Dec 7	Defendants' Reply to Preclude Two Aquifer Theory
98	2018 Dec 7	Defendants' Reply to Exclude Designated Deposition Testimony
99	2018 Dec 7	Defendants' Reply Exhibits
100	2018 Dec 7	Plaintiff's Reply to Exclude Defendants' Expert
101	2018 Dec 21	Defendant Tennessee's Pre-Hearing Brief
102	2018 Dec 21	Defendant MLGW and City of Memphis Pre-Hearing Brief
103	2018 Dec 21	Plaintiff Mississippi's Pre-Hearing Brief
104	2019 Jan 14	Order Approving Continuance of Evidentiary Hearing and Revising Scheduling Order

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105	2019 May 30	Transcript of Evidentiary Hearing Day One
106	2019 May 30	Transcript of Evidentiary Hearing Day Two
107	2019 May 30	Transcript of Evidentiary Hearing Day Three
108	2019 May 30	Transcript of Evidentiary Hearing Day Four
109	2019 May 30	Transcript of Evidentiary Hearing Day Five
110	2019 Aug 12	Order Extending Deadline Post-Hearing Briefing
111	2019 Sep 9	Plaintiff's Unopposed Motion for Extension of Time to File Post-Hearing Briefing
112	2019 Sep 9	Order Granting Extension of Time to File Post-Hearing Briefing
113	2019 Sep 19	Defendants MLGW and City of Memphis's Post-Hearing Brief
114	2019 Sep 19	Defendant Tennessee's Post-Hearing Brief
115	2019 Sep 19	Defendants' Proposed Findings of Fact
116	2019 Sep 19	Defendants' Proposed Conclusions of Law
117	2019 Sep 19	Plaintiff Mississippi's Post-Hearing Brief

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118	2019 Sep 19	Plaintiff Mississippi's Proposed Findings of Fact and Conclusions of Law
119	2019 Sep 20	Plaintiff Mississippi's Corrected Post-Hearing Brief
120	2019 Sep 23	Order for Joint Proposal on Procedure and Schedule for Closing Arguments
121	2019 Oct 11	Joint Proposal on Procedure and Schedule for Closing Arguments
122	2019 Oct 15	Motion for Leave to File Brief and Tendered Brief of Amici Curiae Law Professors
123	2019 Oct 16	Order Granting Motion for Leave to File Amicus Brief
124	2019 Oct 16	Brief of Amici Curiae Law Professors
125	2019 Oct 21	Defendant Tennessee's Response to Plaintiff's Post-Hearing Brief
126	2019 Oct 21	Defendants MLGW and City of Memphis's Response to Plaintiff's Post-Hearing Brief
127	2019 Oct 21	Plaintiff Mississippi's Combined Response to Defendants' Post-Hearing Briefs
128	2019 Oct 28	Order on Procedure and Schedule for Closing Arguments

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129	2020 Feb 19	Plaintiff Mississippi's Notice of Appearances and Change of Addresses
130	2020 Feb 20	Updated Email Service List
131	2020 Mar 6	Transcript of Closing Arguments
132	2020 Mar 6	Plaintiff Mississippi's Closing Argument Exhibit
133	2020 Mar 6	Defendant Tennessee's Closing Argument Exhibit
134	2020 Mar 6	Defendants MLGW and City of Memphis's Closing Argument Exhibit
