

January 10, 2022

Ms. Gracy Danois
Modeling, Assessment, Listing and TMDL Section
EPA Region 4
61 Forsyth Street
Atlanta, GA 30303

Re: MDEQ Intention to Delist Total Nitrogen and Total Phosphorous from Unnamed Tributary of Catalpa Creek (809012) as a result of a facility's upgrades and modifications (Category 4b).

Dear Ms. Danois:

Through this letter, MDEQ is informing you of our intention to delist the Unnamed Tributary to Catalpa Creek (809012) from the 2022 Section 303d List of Water Bodies. Catalpa Creek is currently listed for Sediment, Total Nitrogen and Total Phosphorous. These listings are being removed due to a recent sediment TMDL, as well as upgrades and modifications to Artesia POTW (MS0020770) that we believe will address the impairment in this water body segment.

Monitoring for Unnamed Tributary of Catalpa Creek in 2003 by the MBISQ Program showed the waterbody did not support the Aquatic Life Use Support standard (biological impairment). A Stressor Identification was completed in September of 2019 and identified Sediment and Total Nitrogen and Total Phosphorous as probable primary stressors. MDEQ proposed a TMDL for sediment for this segment that was approved on May 10, 2021 to address the sediment listing.

With this letter MDEQ requests to change Unnamed Tributary of Catalpa Creek to Category 4b. In 2016 enforcement actions were taken and Artesia POTW (MS0020770) was placed on an Agreed Order. Since then, the facility has made the required modifications and upgrades to bring them into compliance. This action is expected to address the probable primary sources of impairment identified in the Stressor ID process for Unnamed Tributary to Catalpa Creek and negates the need for a TMDL for this listing. A completed STREAM model confirms permit limitations are sufficient to protect water quality.

Enclosed is the decision form regarding the delisting of this water body segment, supporting documentation of the sampling, and the Stressor ID documentation We would appreciate your timely review of our proposed delisting. If you have any questions, please contact me at (601) 961-5629.

Sincerely,

Shawn A. Clark, P.E., BCEE
Manager, Modeling and TMDL Branch

Enclosure

DATE 3/9/20State of Mississippi
Section 303 (d) List of Waterbodies
Decision Form DELIST ADD RE CATEGORIZE MODIFY

303(d) INFORMATION

Name of 303(d) Waterbody Unnamed Tributary to Cataupa CreekBasin Tombigbee River Basin Waterbody ID 809012Watershed 8-digit Cataloging Unit Code 3160104 County LowndesWaterbody Use Classification Impaired Fish and WildlifeListed Cause of Impairment Sediment, Total Nitrogen, and Total PhosphorousBasis of Previous 303(d) Listing This water body segment was added based on Water Quality Monitoring Program in 2003. A Stressor ID in September 2019 identified Sediment/Total Nitrogen and Total Phosphorous as Probable Primary Stressors.

DECISION JUSTIFICATION

Basis of Decision This waterbody was included in a sediment TMDL approved by EPA on 5/10/21. There is only one point source in this watershed (Artesia POTW). In 2016 enforcement actions were taken and Artesia POTW (MS0020770) was placed on an Agreed Order. Since then, the facility has made the required modifications and upgrades to bring them into compliance. This action is expected to address the probable primary sources of impairment identified in the Stressor ID process for Unnamed Tributary to Cataupa Creek and negates the need for a TMDL for this listing. A completed STREAM model confirms permit limitations will protect water quality.Data Source(s) MDEQ



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET, SW
ATLANTA, GEORGIA 30303-3104

May 10, 2021

Mr. Mike Freiman, P.E.
Chief
Surface Water Division
Mississippi Department of Environmental Quality
P.O. Box 2261
Jackson, Mississippi 39225-2261

Dear Mr. Freiman:

The Environmental Protection Agency has concluded its review of the "Total Maximum Daily Loads for Designated Streams in the Tombigbee River Basin Impaired for Sediment" report as submitted by email on April 22, 2021 by the Mississippi Department of Environmental Quality, Surface Water Division. Based upon our review, we have determined that the statutory requirements of the Clean Water Act section 303(d) have been met and hereby approve the six total maximum daily loads (TMDLs) for the Tombigbee River watershed identified in the report.

The enclosed decision document summarizes the elements of the review which were found to support the EPA's approval of the TMDLs. If you have any comments or questions relating to the approval of the TMDLs, please contact me at (404) 562-9345, or have a member of your staff contact Bill Melville in the Monitoring, Assessment, Listing and TMDL program at (404) 562-9266.

Sincerely,
**JEANEANNE
GETTLE**
Jeaneanne M. Gettle, Director
Water Division

Digitally signed by
JEANEANNE GETTLE
Date: 2021.05.10
08:29:30 -04'00'

Enclosure

DEPARTMENT OF ENVIRONMENTAL QUALITY
STREAM REPORTS

Engineer **TOM SULLIVAN** Model : **ARTESIA MARCH2011**
 Description
 NPDES List **MS0020770**

Waste Source data

#	River Name	River Mile	Source Name	Source Type	DO (mg/l)	Flow	Flow Units	CBOD	CBOD Units	Ratio	NH3-N
1	trib	1.000	Artesia	Point Source	6.000	0.155	MGD	10.025	CBOD-5 (mg/l)	1.5	0.835

HeadWater or Tributary Boundary Data

#	River Name	River Mile	DO (mg/l)	Flow	Flow Units	CBOD	CBOD Units	Ratio	NH3-N	NH3-N Units
1	Catalpa Cree	11.700	7.000	0.010	cfs	0.108	CBOD-5 (mg/l)	1.5	0.005	NH3N (mg/l)
2	trib	1.600	7.000	0.010	cfs	0.108	CBOD-5 (mg/l)	1.5	0.005	NH3N (mg/l)

Specific Input

#	River Name	River Mile	DO (mg/l)	Flow	Flow Units	CBOD	CBOD Units	Ratio	NH3-N	NH3-N Units
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Reach Rates

Reach#	River Name	River Mile	Temp Deg C	Kr	Rr Kd	Rr Kn	Rr P	Rr R	Rr S
1	Catalpa Cree	11.7	26.000	0.150	0.150	0.300	0.000	0.000	0.000
2	Catalpa Cree	10	26.000	0.300	0.300	0.300	0.000	0.000	0.000
3	Catalpa Cree	6.7	26.000	0.300	0.300	0.300	0.000	0.000	0.000
4	Catalpa Cree	5.8	26.000	0.300	0.300	0.300	0.000	0.000	0.000
5	Catalpa Cree	0	26.000	0.300	0.300	0.300	0.000	0.000	0.000
6	trib	1.6	26.000	0.150	0.150	0.300	0.000	0.000	0.000
7	trib	1	26.000	0.300	0.300	0.300	0.000	0.000	0.000
8	trib	0	26.000	0.300	0.300	0.300	0.000	0.000	0.000

Sequence Output

#	River Name	Tributary Name1	Tributary Name2	Origin River Mile	Terminus River Mile	KR	KD	KN	KA	P	R	C	CS
1	Catalpa Cree			11.700	10.000	0.190	0.190	0.380	1.245	0.000	0.000	0.000	8.221
2	Catalpa Cree	trib		10.000	6.700	0.380	0.380	0.380	1.245	0.000	0.000	0.000	8.221
3	Catalpa Cree			6.700	5.800	0.380	0.380	0.380	0.622	0.000	0.000	0.000	8.221
4	Catalpa Cree			5.800	0.000	0.380	0.380	0.380	2.282	0.000	0.000	0.000	8.221
5	trib			1.600	1.000	0.190	0.190	0.380	1.245	0.000	0.000	0.000	8.221
6	trib			1.000	0.000	0.380	0.380	0.380	1.245	0.000	0.000	0.000	8.221

Generated Output

#	River Name	River	Flow	DO	DEFICIT	CBODu	NH3N	VEL
1	Catalpa Cree	11.7000	0.010	7.0000	1.2206	1.9913	0.0998	0.1000
2	Catalpa Cree	11.6000	0.010	7.0571	1.1635	1.9684	0.0975	0.1000
3	Catalpa Cree	11.5000	0.010	7.1105	1.1100	1.9457	0.0953	0.1000
4	Catalpa Cree	11.4000	0.010	7.1605	1.0600	1.9233	0.0931	0.1000
5	Catalpa Cree	11.3000	0.010	7.2073	1.0132	1.9012	0.0910	0.1000
6	Catalpa Cree	11.2000	0.010	7.2512	0.9694	1.8793	0.0889	0.1000
7	Catalpa Cree	11.1000	0.010	7.2922	0.9283	1.8577	0.0869	0.1000

DEPARTMENT OF ENVIRONMENTAL QUALITY
STREAM REPORTS

#	River Name	River	Flow	DO	DEFICIT	CBODu	NH3N	VEL
8	Catalpa Cree	11.0000	0.010	7.3308	0.8898	1.8363	0.0849	0.1000
9	Catalpa Cree	10.9000	0.010	7.3669	0.8536	1.8152	0.0829	0.1000
10	Catalpa Cree	10.8000	0.010	7.4009	0.8197	1.7943	0.0810	0.1000
11	Catalpa Cree	10.7000	0.010	7.4327	0.7878	1.7737	0.0792	0.1000
12	Catalpa Cree	10.6000	0.010	7.4627	0.7579	1.7533	0.0774	0.1000
13	Catalpa Cree	10.5000	0.010	7.4909	0.7297	1.7331	0.0756	0.1000
14	Catalpa Cree	10.4000	0.010	7.5174	0.7032	1.7132	0.0739	0.1000
15	Catalpa Cree	10.3000	0.010	7.5424	0.6782	1.6934	0.0722	0.1000
16	Catalpa Cree	10.2000	0.010	7.5659	0.6546	1.6740	0.0705	0.1000
17	Catalpa Cree	10.1000	0.010	7.5881	0.6324	1.6547	0.0689	0.1000
18	Catalpa Cree	10.0000	0.010	7.6091	0.6115	1.6357	0.0673	0.1000
19	Catalpa Cree	9.9000	0.175	5.0965	3.1241	8.3979	0.6930	0.1000
20	Catalpa Cree	9.8000	0.175	5.0701	3.1505	8.2057	0.6771	0.1000
21	Catalpa Cree	9.7000	0.175	5.0514	3.1692	8.0180	0.6616	0.1000
22	Catalpa Cree	9.6000	0.175	5.0398	3.1807	7.8345	0.6465	0.1000
23	Catalpa Cree	9.5000	0.175	5.0346	3.1859	7.6553	0.6317	0.1000
24	Catalpa Cree	9.4000	0.175	5.0353	3.1853	7.4801	0.6172	0.1000
25	Catalpa Cree	9.3000	0.175	5.0412	3.1794	7.3090	0.6031	0.1000
26	Catalpa Cree	9.2000	0.175	5.0519	3.1687	7.1417	0.5893	0.1000
27	Catalpa Cree	9.1000	0.175	5.0668	3.1537	6.9783	0.5758	0.1000
28	Catalpa Cree	9.0000	0.175	5.0856	3.1349	6.8187	0.5627	0.1000
29	Catalpa Cree	8.9000	0.175	5.1079	3.1126	6.6626	0.5498	0.1000
30	Catalpa Cree	8.8000	0.175	5.1333	3.0872	6.5102	0.5372	0.1000
31	Catalpa Cree	8.7000	0.175	5.1615	3.0591	6.3612	0.5249	0.1000
32	Catalpa Cree	8.6000	0.175	5.1921	3.0284	6.2157	0.5129	0.1000
33	Catalpa Cree	8.5000	0.175	5.2249	2.9956	6.0735	0.5012	0.1000
34	Catalpa Cree	8.4000	0.175	5.2596	2.9609	5.9345	0.4897	0.1000
35	Catalpa Cree	8.3000	0.175	5.2960	2.9245	5.7987	0.4785	0.1000
36	Catalpa Cree	8.2000	0.175	5.3339	2.8867	5.6661	0.4675	0.1000
37	Catalpa Cree	8.1000	0.175	5.3730	2.8476	5.5364	0.4568	0.1000
38	Catalpa Cree	8.0000	0.175	5.4132	2.8074	5.4097	0.4464	0.1000
39	Catalpa Cree	7.9000	0.175	5.4543	2.7663	5.2860	0.4362	0.1000
40	Catalpa Cree	7.8000	0.175	5.4961	2.7244	5.1650	0.4262	0.1000
41	Catalpa Cree	7.7000	0.175	5.5386	2.6820	5.0468	0.4164	0.1000
42	Catalpa Cree	7.6000	0.175	5.5815	2.6390	4.9314	0.4069	0.1000
43	Catalpa Cree	7.5000	0.175	5.6248	2.5957	4.8185	0.3976	0.1000
44	Catalpa Cree	7.4000	0.175	5.6684	2.5522	4.7083	0.3885	0.1000
45	Catalpa Cree	7.3000	0.175	5.7121	2.5085	4.6006	0.3796	0.1000
46	Catalpa Cree	7.2000	0.175	5.7559	2.4647	4.4953	0.3709	0.1000
47	Catalpa Cree	7.1000	0.175	5.7997	2.4209	4.3924	0.3624	0.1000
48	Catalpa Cree	7.0000	0.175	5.8434	2.3772	4.2919	0.3542	0.1000
49	Catalpa Cree	6.9000	0.175	5.8869	2.3336	4.1937	0.3461	0.1000
50	Catalpa Cree	6.8000	0.175	5.9303	2.2903	4.0978	0.3381	0.1000
51	Catalpa Cree	6.7000	0.175	5.9734	2.2472	4.0040	0.3304	0.1000
52	Catalpa Cree	6.6000	0.175	5.9333	2.2873	3.9124	0.3228	0.1000
53	Catalpa Cree	6.5000	0.175	5.8975	2.3230	3.8229	0.3155	0.1000
54	Catalpa Cree	6.4000	0.175	5.8658	2.3547	3.7354	0.3082	0.1000
55	Catalpa Cree	6.3000	0.175	5.8381	2.3825	3.6500	0.3012	0.1000
56	Catalpa Cree	6.2000	0.175	5.8140	2.4066	3.5665	0.2943	0.1000
57	Catalpa Cree	6.1000	0.175	5.7933	2.4272	3.4849	0.2876	0.1000

DEPARTMENT OF ENVIRONMENTAL QUALITY
 STREAM REPORTS

#	River Name	River	Flow	DO	DEFICIT	CBODu	NH3N	VEL
58	Catalpa Cree	6.0000	0.175	5.7760	2.4446	3.4051	0.2810	0.1000
59	Catalpa Cree	5.9000	0.175	5.7617	2.4588	3.3272	0.2745	0.1000
60	Catalpa Cree	5.8000	0.175	5.7505	2.4701	3.2511	0.2683	0.1000
61	Catalpa Cree	5.7000	0.175	5.9758	2.2448	3.1767	0.2621	0.1000
62	Catalpa Cree	5.6000	0.175	6.1740	2.0466	3.1040	0.2561	0.1000
63	Catalpa Cree	5.5000	0.175	6.3486	1.8720	3.0330	0.2503	0.1000
64	Catalpa Cree	5.4000	0.175	6.5026	1.7180	2.9636	0.2445	0.1000
65	Catalpa Cree	5.3000	0.175	6.6386	1.5819	2.8958	0.2390	0.1000
66	Catalpa Cree	5.2000	0.175	6.7590	1.4616	2.8295	0.2335	0.1000
67	Catalpa Cree	5.1000	0.175	6.8657	1.3549	2.7648	0.2281	0.1000
68	Catalpa Cree	5.0000	0.175	6.9604	1.2602	2.7015	0.2229	0.1000
69	Catalpa Cree	4.9000	0.175	7.0447	1.1759	2.6397	0.2178	0.1000
70	Catalpa Cree	4.8000	0.175	7.1198	1.1008	2.5793	0.2128	0.1000
71	Catalpa Cree	4.7000	0.175	7.1870	1.0336	2.5203	0.2080	0.1000
72	Catalpa Cree	4.6000	0.175	7.2471	0.9734	2.4626	0.2032	0.1000
73	Catalpa Cree	4.5000	0.175	7.3012	0.9194	2.4063	0.1986	0.1000
74	Catalpa Cree	4.4000	0.175	7.3498	0.8707	2.3512	0.1940	0.1000
75	Catalpa Cree	4.3000	0.175	7.3938	0.8267	2.2974	0.1896	0.1000
76	Catalpa Cree	4.2000	0.175	7.4337	0.7869	2.2449	0.1852	0.1000
77	Catalpa Cree	4.1000	0.175	7.4699	0.7507	2.1935	0.1810	0.1000
78	Catalpa Cree	4.0000	0.175	7.5029	0.7177	2.1433	0.1769	0.1000
79	Catalpa Cree	3.9000	0.175	7.5331	0.6875	2.0943	0.1728	0.1000
80	Catalpa Cree	3.8000	0.175	7.5608	0.6597	2.0464	0.1689	0.1000
81	Catalpa Cree	3.7000	0.175	7.5864	0.6342	1.9995	0.1650	0.1000
82	Catalpa Cree	3.6000	0.175	7.6100	0.6106	1.9538	0.1612	0.1000
83	Catalpa Cree	3.5000	0.175	7.6318	0.5887	1.9091	0.1575	0.1000
84	Catalpa Cree	3.4000	0.175	7.6522	0.5684	1.8654	0.1539	0.1000
85	Catalpa Cree	3.3000	0.175	7.6712	0.5494	1.8227	0.1504	0.1000
86	Catalpa Cree	3.2000	0.175	7.6889	0.5316	1.7810	0.1470	0.1000
87	Catalpa Cree	3.1000	0.175	7.7056	0.5149	1.7403	0.1436	0.1000
88	Catalpa Cree	3.0000	0.175	7.7214	0.4992	1.7005	0.1403	0.1000
89	Catalpa Cree	2.9000	0.175	7.7362	0.4844	1.6616	0.1371	0.1000
90	Catalpa Cree	2.8000	0.175	7.7503	0.4703	1.6235	0.1340	0.1000
91	Catalpa Cree	2.7000	0.175	7.7636	0.4569	1.5864	0.1309	0.1000
92	Catalpa Cree	2.6000	0.175	7.7763	0.4442	1.5501	0.1279	0.1000
93	Catalpa Cree	2.5000	0.175	7.7885	0.4321	1.5146	0.1250	0.1000
94	Catalpa Cree	2.4000	0.175	7.8001	0.4205	1.4800	0.1221	0.1000
95	Catalpa Cree	2.3000	0.175	7.8112	0.4094	1.4461	0.1193	0.1000
96	Catalpa Cree	2.2000	0.175	7.8218	0.3987	1.4130	0.1166	0.1000
97	Catalpa Cree	2.1000	0.175	7.8321	0.3885	1.3807	0.1139	0.1000
98	Catalpa Cree	2.0000	0.175	7.8419	0.3786	1.3491	0.1113	0.1000
99	Catalpa Cree	1.9000	0.175	7.8515	0.3691	1.3182	0.1088	0.1000
100	Catalpa Cree	1.8000	0.175	7.8607	0.3599	1.2881	0.1063	0.1000
101	Catalpa Cree	1.7000	0.175	7.8695	0.3510	1.2586	0.1039	0.1000
102	Catalpa Cree	1.6000	0.175	7.8781	0.3424	1.2298	0.1015	0.1000
103	Catalpa Cree	1.5000	0.175	7.8864	0.3341	1.2017	0.0992	0.1000
104	Catalpa Cree	1.4000	0.175	7.8945	0.3260	1.1742	0.0969	0.1000
105	Catalpa Cree	1.3000	0.175	7.9023	0.3182	1.1473	0.0947	0.1000
106	Catalpa Cree	1.2000	0.175	7.9100	0.3106	1.1211	0.0925	0.1000
107	Catalpa Cree	1.1000	0.175	7.9173	0.3032	1.0954	0.0904	0.1000

DEPARTMENT OF ENVIRONMENTAL QUALITY
STREAM REPORTS

#	River Name	River	Flow	DO	DEFICIT	CBODu	NH3N	VEL
108	Catalpa Cree	1.0000	0.175	7.9245	0.2960	1.0703	0.0883	0.1000
109	Catalpa Cree	0.9000	0.175	7.9315	0.2891	1.0458	0.0863	0.1000
110	Catalpa Cree	0.8000	0.175	7.9383	0.2823	1.0219	0.0843	0.1000
111	Catalpa Cree	0.7000	0.175	7.9449	0.2756	0.9985	0.0824	0.1000
112	Catalpa Cree	0.6000	0.175	7.9514	0.2692	0.9757	0.0805	0.1000
113	Catalpa Cree	0.5000	0.175	7.9576	0.2629	0.9534	0.0787	0.1000
114	Catalpa Cree	0.4000	0.175	7.9638	0.2568	0.9316	0.0769	0.1000
115	Catalpa Cree	0.3000	0.175	7.9697	0.2508	0.9102	0.0751	0.1000
116	Catalpa Cree	0.2000	0.175	7.9756	0.2450	0.8894	0.0734	0.1000
117	Catalpa Cree	0.1000	0.175	7.9812	0.2393	0.8691	0.0717	0.1000
118	Catalpa Cree	0.0000	0.175	7.9868	0.2338	0.8492	0.0701	0.1000
119	trib	1.6000	0.010	7.0000	1.2206	1.9913	0.0998	0.1000
120	trib	1.5000	0.010	7.0571	1.1635	1.9684	0.0975	0.1000
121	trib	1.4000	0.010	7.1105	1.1100	1.9457	0.0953	0.1000
122	trib	1.3000	0.010	7.1605	1.0600	1.9233	0.0931	0.1000
123	trib	1.2000	0.010	7.2073	1.0132	1.9012	0.0910	0.1000
124	trib	1.1000	0.010	7.2512	0.9694	1.8793	0.0889	0.1000
125	trib	1.0000	0.010	7.2922	0.9283	1.8577	0.0869	0.1000
126	trib	0.9000	0.165	5.8896	2.3309	11.1044	0.9213	0.1000
127	trib	0.8000	0.165	5.7226	2.4980	10.8503	0.9003	0.1000
128	trib	0.7000	0.165	5.5755	2.6450	10.6021	0.8797	0.1000
129	trib	0.6000	0.165	5.4468	2.7738	10.3595	0.8595	0.1000
130	trib	0.5000	0.165	5.3348	2.8858	10.1225	0.8399	0.1000
131	trib	0.4000	0.165	5.2381	2.9824	9.8909	0.8207	0.1000
132	trib	0.3000	0.165	5.1556	3.0649	9.6646	0.8019	0.1000
133	trib	0.2000	0.165	5.0860	3.1345	9.4434	0.7835	0.1000
134	trib	0.1000	0.165	5.0282	3.1923	9.2274	0.7656	0.1000
135	trib	0.0000	0.165	4.9812	3.2393	9.0162	0.7481	0.1000

River Name: Catalpa Cree

1595 ARTESIA MARCH2011 River Mile vs Dissolved Oxygen



