

Enclosure B: DECISION DOCUMENT FOR LOUISIANA'S 2006 §303(d) LIST

The statutory and regulatory requirements, and the Environmental Protection Agency's (EPA's) review of Louisiana's compliance with each requirement, are described in detail below.

1. Date of Transmittal Letter "FINAL 2006 §303(d) list" From the State: February 12, 2007, Date of Receipt by EPA: February 20, 2007
2. Date of Corrections and Updates to Louisiana's 2006 §303(d) List and Integrated Report from the State: May 24, 2007
3. Date of Corrections and Updates to Louisiana's 2006 §303(d) List and Integrated Report from the State: September 20, 2007
4. Decision Document for Louisiana's 2004 §303(d) List
5. Assessment Method and Summary Data/Integrated Report Rationale
6. EPA's 2008 Integrated Reporting Guidance (http://www.epa.gov/owow/tmdl/2008_ir_memorandum.html)
7. Revisions to Louisiana's 2004 §303(d) List and Integrated Report (fax)

Purpose

The purpose of this review document is to describe the rationale for EPA's approval of Louisiana's 2006 §303(d) List of water quality limited waters (WQLS) requiring TMDLs. The following sections identify those key elements to be included in the list submittal based on the Clean Water Act and EPA regulations. See 40 CFR 130.7. EPA reviewed the methodology used by the State in developing the §303(d) List and the State's description of the data and information it considered. EPA's review of Louisiana's §303(d) List is based on whether the State reasonably considered all existing and readily available water quality-related data and information and reasonably identified waters required to be listed.

Statutory and Regulatory Background

Identification of WQLSs for Inclusion on section 303(d) List

Section 303(d)(1) of the Act directs states to identify those waters within its jurisdiction for which effluent limitations required by section 301(b)(1)(A) and (B) are not stringent enough to implement any applicable water quality standard, and to establish a priority ranking for such waters, taking into account the severity of the pollution and the uses to be made of such waters. The section 303(d) listing requirements apply to waters impaired by point and/or nonpoint source pollutants, pursuant to EPA's long-standing interpretation of section 303(d).

EPA regulations provide that states do not need to list waters where the following controls are adequate to implement applicable standards: (1) technology-based effluent limitations required by the Act, (2) more stringent effluent limitations required by state or

local authority, and (3) other pollution control requirements required by state, local, or federal authority. See 40 CFR 130.7(b)(1).

Consideration of Existing and Readily Available Water Quality-Related Data and Information

In developing §303(d) Lists, the states are required to assemble and evaluate all existing and readily available water quality-related data and information, including, at a minimum, consideration of existing and readily available data and information about the following categories of waters: (1) waters identified as partially meeting or not meeting designated uses, or as threatened, in the state's most recent section 305(b) report; (2) waters for which dilution calculations or predictive modeling indicate non-attainment of applicable standards; (3) waters for which water quality problems have been reported by governmental agencies, members of the public, or academic institutions; and (4) waters identified as impaired or threatened in any section 319 nonpoint assessment submitted to EPA, See 40 CFR 130.7(b)(5). In addition to these minimum categories, the states are required to consider any other data and information that are existing and readily available. EPA's 1991 Guidance for Water Quality-Based Decisions describes categories of water quality-related data and information that may be existing and readily available. *See "Guidance for Water Quality-Based Decisions: The TMDL Process"*, EPA Office of Water, 1991, Appendix C ("EPA's 1991 Guidance"). While the states are required to evaluate all existing and readily available water quality-related data and information, the states may decide to rely or not rely on particular data or information in determining whether to list particular waters.

In addition to requiring the states to assemble and evaluate all existing and readily available water quality-related data and information, EPA regulations at 40 CFR 130.7(b)(6) require the states to include as part of their submissions to EPA documentation to support decisions to rely or not rely on particular data and information for decisions to list or not list waters. Such documentation needs to include, at a minimum, the following information: (1) a description of the methodology used to develop the list; (2) a description of the data and information used to identify waters; and (3) any other reasonable information requested by the Region. The state described in Chapter 2 of the Integrated Report submittal titled "Assessment Method and Summary Data/Integrated Report Rationale" how it used existing and readily available data in the preparation of the Louisiana's 2006 §303(d) List.

Priority Ranking

EPA regulations also codify and interpret the requirement in §303(d)(1)(A) of the Act that the states establish a priority ranking for listed waters. The regulations at 40 CFR 130.7(b)(4) require the states to prioritize waters on their §303(d) Lists for TMDL development, and also to identify those water quality limited segments (WQLSs) targeted for TMDL development in the next two years. In prioritizing and targeting waters, the states must, at a minimum, take into account the severity of the pollution and the uses to be made of such waters. See section 303(d)(1)(A). As long as these factors are taken into

account, the Act provides that the states establish priorities. The states may consider other factors relevant to prioritizing waters for TMDL development, including immediate programmatic needs, vulnerability of particular waters as aquatic habitats; recreational, economic, and aesthetic importance of particular waters; degree of public interest and support; and the state or national policies and priorities. See 57 FR 33040, 33045 (July 24, 1992), and EPA's 1991 Guidance.

Review of Louisiana's Submission

Consideration of Existing and Readily Available Water Quality-Related Data and Information.

EPA has reviewed the State's submission, and has concluded that the State developed its §303(d) List in partial compliance with section 303(d) of the Act and 40 CFR 130.7. EPA has determined that Louisiana's submission does not include all waters that meet section 303(d) listing requirements. Therefore, EPA is partially approving and partially disapproving Louisiana's list submission and proposing a final list inclusive of the list submitted by Louisiana and additional waters and pollutants that EPA has determined meet the listing requirements to the final 2006 §303(d) List. EPA's review is based on its analysis of whether the State reasonably considered existing and readily available water quality related data and information and reasonably identified waters required to be listed, including a careful review of the waters addressed in the April 1, 2002 Consent Decree (CD) in *Sierra Club and Louisiana Environmental Action Network, Inc. v. EPA*, Civil Action Number: 96-0527. Based on EPA's review, 133 waters (or waterbody pollutant or impairment combinations) are proposed for addition to Louisiana's 2006 §303(d) list and 2 water body pollutant combinations are proposed for removal from Category 5 of the List.

Louisiana chose to combine the 2006 section 305(b) report and section 303(d) list into a single report following EPA's listing guidance titled "Guidance for the 2006 Integrated Assessment and Reporting on the Quality of States' Waters" ("Integrated Report"). A single assessment methodology for the Integrated Report was used for both the 305(b) reporting and the 303(d) listing activities.

The Integrated Report included five categories as established in EPA guidance. Category 5, which is the 2006 §303(d) list, was also included in the report. Category 5 is the portion of the Integrated Report on which EPA is taking action today. Although EPA reviewed Louisiana's listing methodology as part of our review of the listing submission, EPA's approval of the State's listing decisions should not be construed as concurrence with or approval of the listing methodology. EPA is not required to take action on the listing methodology. See 40 CFR 130.7. EPA's decision to partially approve and partially disapprove Louisiana's listing decisions is based on EPA's review of the data and information submitted concerning individual waters and the State's evaluations of those waters. While EPA considered the State's listing methodology as part of its review, our evaluation was intended to determine whether the State had identified all waters that

meet federal listing requirements specified in section 303(d) and 40 CFR 130.7. Although EPA has concerns about some aspects of the State's listing methodology, those concerns are considered in our final listing decision to add waters not included in the list submitted by the State of Louisiana.

The listing methodology employed by Louisiana for 2006 describes a set of decision criteria that were flexibly applied. In general, waters were listed in cases where a certain percentage of samples exceeded the applicable water quality criteria during the past years. The applicable percentages are provided in the Assessment Method and Summary Data/Integrated Report Rationale for Louisiana's 2006 Integrated Report of the Louisiana submittal. See item no. 5 of Administrative Record for information regarding LDEQ's Assessment Methodology. EPA technical staff determined the assessment methodology is a reasonable approach consistent with EPA 1997 Guidance document and is consistent with Louisiana's water quality standards. However, EPA determined that the assessment of dissolved oxygen criterion using a minimum of 3 mg/l and a median of 5 mg/l, is inconsistent with Louisiana's water quality standards which state, "The following dissolved oxygen (DO) values represent minimum criteria for the type of water specified. . . . For a diversified population of fresh warmwater biota including sport fish, the DO concentration shall be at or above 5 mg/L."

EPA has determined that Louisiana took reasonable steps to solicit all existing and readily available water quality-related data and information from members of the public and government agencies via the public participation for Louisiana's 2006 Integrated Report by the State of Louisiana as outlined:

1. Public notice posted on **September 25, 2006** requesting relevant data, comments on draft 2006 303(d) List and the rationale for development of the 303(d) list. These requests were also posted on LDEQ's website. Notice was placed in newspapers on or before **September 27, 2006** depending on the paper. Notices were placed in the following newspapers:

Baton Rouge, The Advocate (official State journal)
Lake Charles American Press
Lafayette, The Advertiser
Monroe New-Star
Alexandria, The Town Talk
Shreveport, The Times
New Orleans, The Times-Picayune

2. Public comment period ran until **October 27, 2006** at 4:30 pm.

3. Following conclusion of public comment period LDEQ prepared a response to comments document. This document was included in the Integrated Report submittal to EPA on **February 12, 2007**.

EPA has reviewed Louisiana's description of the data and information it considered, its

methodology for identifying waters. EPA concludes that the State properly assembled all existing and readily available data and information, including data and information relating to the categories of waters specified in 40 CFR 130.7(b)(5). EPA concludes that the State's decisions to list the waters identified in its listing submittal are consistent with federal listing requirements. However, EPA concludes that the State's decision not to list waters and pollutants detailed below is inconsistent with federal listing requirements. As discussed in detail below, the available information leads to a conclusion that these waters are water quality limited under Louisiana water quality standards and need to be listed pursuant to 303(d). Therefore, EPA is proposing to add these waters to Louisiana's 2006 list and will be seeking public comment on these proposed additions.

Decision to Add Waters to Louisiana's 2006 section 303(d) List

In the evaluation of the Final 2006 §303(d) List submission, EPA identified waters where pollutant concentrations exceeded applicable water quality criteria resulting in a finding of non-support. These waters are as identified below. See item no. 4 of Administrative Record for additional information regarding the basis for these decisions to add waters to Louisiana's 2004 §303(d) List.

Data support a conclusion that Marine Dissolved Copper numeric criteria are exceeded for the waterbodies listed.

For purposes of developing the Louisiana Integrated Report, LDEQ applied the metals marine criterion only to those waterbodies where salinity was measured at greater than 16 parts per thousand (ppt). EPA finds that LDEQ's interpretation is not consistent with the updated compilation of nationally recommended water quality criteria and is inconsistent with the Louisiana water quality standards.

Marine Water Biota as defined in LAC:33:IX:1105 is "those aquatic life species whose populations typically inhabit waters with salinities equal to or greater than 2 ppt including but not limited to characteristic fishes, invertebrates and wildlife of coastal waters and the Gulf of Mexico." Furthermore, LAC:33:IX:1113C.6.b. provides that "The criteria for protection of aquatic life are based on acute and chronic concentrations in fresh and marine waters specified in EPA criteria documents". Based on the definition of marine water biota cited above, it is necessary that the use of the marine criterion would be triggered by salinities greater than 2 ppt concentration cited in the definition of Marine water biota. Additionally, EPA in the document, "National Recommended Water Quality Criteria: 2002" issued the following "National Guidance on the applicability of Freshwater and Saltwater Criteria. "EPA recommends that the aquatic life criteria in this compilation apply as follows:

1. For water in which the salinity is equal to or less than 1 ppt 95% or more of the time, the applicable criteria are the freshwater criteria;
2. For water in which the salinity is equal to or greater than 10 ppt 95% or more of the time, the applicable criteria are the saltwater criteria;

3. For water in which the salinity is between 1 and 10 ppt the applicable criteria are the more stringent of the freshwater or saltwater criteria, as described in item (1) and (2) of this section. However, an alternative freshwater or saltwater criteria may be used if scientifically defensible information and data demonstrate that on a site-specific basis the biology of the waterbody is dominated by freshwater aquatic life and that freshwater criteria are more appropriate; or conversely, the biology of the waterbody is dominated by saltwater aquatic life and that saltwater criteria are more appropriate.

EPA's evaluation applied the more stringent of the freshwater or marine criteria where the salinity was between 1 and 10 ppt resulting in the addition of the following 3 waters to the 2006 §303(d) List. EPA followed LDEQ's assessment methodology that greater than 1 exceedance of the applicable criteria results in a finding of non-support of the more stringent marine dissolved copper criterion.

Sub-segment	Description	Parameter
Pontchartrain Basin (03)		
040904	Bayou Cane- U.S. Hwy 190 to Lake Pontchartrain	Dissolved Copper
041202	Bayou Trepagnier- Norco to bayou Labranche (Scenic) (Estuarine)	Dissolved Copper
041203	Duncan Canal (Parish Line Canal)- From source at Kenner corporation limits to Lake Pontchartrain (Estuarine)	Dissolved Copper

Dissolved Oxygen general evaluation criteria for finding of non-support

The evaluations of the dissolved oxygen data to assess for non-support based on applicable criteria are discussed below. A number of general criteria were applied to the data as outlined.

Typology of dissolved oxygen general evaluation criteria applied to all data		
Topic	Evaluation Criteria	Application to criteria
Rounding rules applied ¹	<p>When the digit immediately after the one to be retained is less than five, the retained figure is kept unchanged</p> <p>When the digit immediately after the one to be retained is greater than five, the retained figure is increased by one.</p>	<p>For example: 2.541 becomes 2.5 to two significant figures</p> <p>For example: 2.453 becomes 2.5 to two significant figures.</p>

¹ Taylor, John Keenan. 1987. Quality Assurance of Chemical Measurements. P. 200-201. Lewis Publishers, Inc.

	<p>When the digit immediately after the one to be retained is exactly five and the retained digit is even, it is left unchanged and conversely.</p> <p>When two or more figures are to the right of the last figure to be retained, they are considered as a group in rounding decisions.</p>	<p>For example 3.450 becomes 3.4; but 3.550 becomes 3.6 to two significant figures.</p> <p>Thus in 2.4(501), the group (501) is considered to be >5 while for 2.5(499) is considered to be <5.</p>
Dissolved Oxygen (DO) Measurement Accuracy	EPA Method 360.1: $\pm 2\%$ ²	Freshwater Criteria <4.9 mg/L Estuarine <3.9 mg/L

Additionally, if DO criteria were found to be not supported then nutrients could be one of the suspected causes of the impairment. If nutrients or a specific nutrient (nitrogen, phosphorus, ammonia) was previously listed on Attachment A of the Court Ordered Consent Decree agreement dated April 2, 2002 then these listings were included on the 2006 303(d) List. If nutrients were not listed in Attachment A of the 2002 Consent Decree, but DO was found to be impaired, only DO was included on the 2006 303(d) list.

Freshwater Dissolved Oxygen without site-specific criteria finding of non-support

LDEQ assessment methods for the purpose of evaluation of waters without site specific water quality criteria defines a waterbody unimpaired for DO that has a median concentration of greater than 5 mg/L with no more than ten percent of all samples less than 3 mg/L. This assessment methodology is applied to a series of daily grab samples generally collected once per month over a year. EPA Region 6 does not agree with this assessment methodology. EPA’s concern is that the assessment methodology is not consistent with LDEQ’s water quality standards, which established a minimum of 5 mg/L as the criterion, not a median of 5mg/L. Such an application can lead to situations where numerous values are lower than the established minimum criterion without finding that a segment is water quality limited.

LDEQ cites the language in the standards statement that “Naturally occurring variations below the criterion specified may occur for short periods,” as the basis for their interpretation. EPA disagrees with this interpretation. EPA finds that the language, as written, clearly is meant to interpret short-term variations that occur as a result of the photosynthetic variability within a normal diel cycle. Such daily variability cannot be assessed using monthly grab samples.

² Technical Bulletins: ©2002 Hydrolab Inc. and ©YSI Environmental

EPA conducted a reassessment of all DO information on those sub-segments without site-specific criteria in the review of the 2006 303(d) list. EPA guidance recommends that “a greater than 10% exceedance” be used for determining whether water quality is adequate to support the designated aquatic life use. The allowed percent exceedance is meant to account for reasonable amount of natural occurring variability. Dissolved oxygen information was reassessed using an Exact Binomial Test described below for Minimum Dissolved Oxygen for selected waterbodies remaining in dispute between the State and EPA. See item no. 4 of Administrative Record for additional information regarding the basis for these decisions to add waters to Louisiana’s 2004 §303(d) List.

The baseline condition assumed that no more than 10% of the samples had DO values <4.9 mg/L. The alternative condition was that more than 10% of the samples failed to attain this DO criterion. Therefore, the null hypothesis (H_0) and the alternative hypothesis (H_a) are:

- H_0 : the proportion of the X samples with DO <4.9mg/L is ≤ 0.10
 H_a : the proportion of the X samples with DO <4.9mg/L is > 0.10

Both the Type I and Type II statistical errors were balanced giving equal weight for the listing/de-listing decisions with an allowable exceedance of 10 percent. The following table outlines the minimum number of exceedances to reject H_0 for the anticipated range of sample sizes.

Sample Size	Minimum No. to Reject H_0	Type I Error	Type II Error	Power (%) (1-Type II Error)
4 – 9	1	0.34	0.32	68.4
10 – 15	2	0.26	0.24	75.6
16 – 21	3	0.21	0.20	80.3
22 – 27	4	0.17	0.16	83.8
28 – 33	5	0.14	0.14	86.5
34 – 39	6	0.12	0.11	88.6
40 – 45	7	0.10	0.10	90.4
46	8	0.08	0.08	91.8

The minimum numbers of exceedances for listing a waterbody as impaired can be generated by a number of statistical packages. In this instance, the Microsoft Excel function CRITBINOM (trials, probability_s, alpha) was used to calculate the smallest number of criterion exceedances out of “n” sampling events that may be observed when the null hypothesis is accepted. The statistical power for each sample size was calculated using the Microsoft Excel function BINOMDIST (number_s, trials, probability_s, cumulative).

Using the Exact Binomial Test for Minimum Dissolved Oxygen, EPA determined that the following 69 sub-segments should be listed as impaired for DO based on a finding of

non-support. Waterbody subsegments contained in basins where no new data was collected as part of the Rotating Basin Monitoring Plan were assumed to have the same categorical designation as in the previous 2004 section 303(d) List. See item no. 5 of the Administrative Record for the schedule of LDEQ's Rotating Basin Monitoring Plan.

Sub-segment Description	Parameter
Atchafalaya (01)	
010301 West Atchafalaya Basin Floodway-Simmesport to Butte LaRose Bay and Henderson Lake	Organic enrichment/low DO
Barataria (01)	
020402 Bayou Lafourche-Intracoastal Waterway at Larose to Yankee Canal (Estuarine)	Organic enrichment/low DO
Calcasieu (02)	
030506 Bundicks Creek-Headwaters to Bundicks Lake	Organic enrichment/low DO
030802 Hickory Branch-Headwaters to West Fork Calcasieu River	Organic enrichment/low DO
Mermentau (01)	
050102 Bayou Joe Marcel-Headwaters to Bayou Des Cannes	Organic enrichment/low DO
Mississippi (03)	
070503 Capitol Lake	Organic enrichment/low DO Nutrients
070601 Mississippi River Basin Coastal Bays and Gulf Waters to State three-mile limit	Organic enrichment/low DO
Ouachita (11)	
080601 Bayou D'Arbonne-Headwaters to Lake Claiborne	Organic enrichment/low DO
080605 Bayou D'Arbonne-From Bayou D'Arbonne Lake to Ouachita River (Scenic)	Organic enrichment/low DO
080608 Corney Lake	Organic enrichment/low DO
080802 Cheniere Brake Lake	Organic enrichment/low DO
080908 Lake Lafourche	Organic enrichment/low DO
081301 Little River-Archie Dam to Ouachita River	Organic enrichment/low DO
081502 Chatham Lake in Chatham, Louisiana	Organic enrichment/low DO
081601 Little River-Confluence of Castor Creek and Dugdemonia River to junction with Bear Creek (Scenic) east of Georgetown, Louisiana	Organic enrichment/low DO
081602 Little River-From Bear Creek to Catahoula Lake (Scenic)	Organic enrichment/low DO
081610 Old River-Catahoula Lake to Little River	Organic enrichment/low DO
081611 Bayou Funny Louis-Headwaters to Little River	Organic enrichment/low DO

Pearl (03)		
090105	Pearl River Navigation Canal-From Pools Bluff to Lock No. 3	Organic enrichment/low DO
090204	Pearl River Navigation Canal below Lock No. 3	Organic enrichment/low DO
090207	Middle River and West Middle River-From West Pearl River to Little Lake	Organic enrichment/low DO
Ponchartrain (12)		
040402	Amite River Diversion Canal	Nutrients Organic enrichment/low DO
040503	Natalbany River-Headwaters to Tickfaw River	Phosphorus Organic enrichment/low DO
040504	Yellow Water River-Origin to Pontchatoula Creek	Phosphorus Organic enrichment/low DO
040702	Tangipahoa River-From I-12 to Lake Pontchartrain	Ammonia Nutrients Organic enrichment/low DO
040802	Lower Tchefuncta River-From the Bogue Falaya River down to La Hwy 22 excluding any tributaries from the Bogue Falaya River south to La. Hwy. 22 (Scenic)	Organic enrichment/low DO
041901	Mississippi River Gulf Outlet-Intracoastal Waterway to Breton Sound (mile 30)	Organic enrichment/low DO
042209	Breton Sound near LLOG well head	Organic enrichment/low DO
Red (17)		
100304	Twelve Mile Bayou -Origin to Red River	Organic enrichment/low DO
100404	Cypress Bayou Reservoir	Organic enrichment/low DO
100405	Black Bayou (including Black Bayou Reservoir)	Organic enrichment/low DO
100406	Flat River-Headwaters to Loggy Bayou	Organic enrichment/low DO Nutrients
100501	Bayou Dorcheat-Arkansas State Line to Lake Bistineau (Scenic)	Organic enrichment/low DO
100601	Bayou Pierre-Headwaters to Sawing Lake	Organic enrichment/low DO Nutrients
100602	Boggy Bayou-Headwaters to Wallace Lake at U.S. Hwy 171	Organic enrichment/low DO Nutrients
100702	Black Lake Bayou-Webster-Bienville Parish Line to Black Lake (Scenic)	Organic enrichment/low DO
100703	Black Lake and Clear Lake	Organic enrichment/low DO

100803	Saline Bayou-from Saline Lake to Red River	Organic enrichment/low DO
101301	Rigolette Bayou-Headwaters to Red River	Organic enrichment/low DO
101302	Latt Lake	Organic enrichment/low DO
101506	Big Creek-Headwaters to Saline Lake	Organic enrichment/low DO
101604	Lake Concordia	Organic enrichment/low DO

Sabine (01)

110401	Bayou Toro-Headwaters to La. Hwy. 473	Organic enrichment/low DO
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Terrebonne (17)

120105	Chamberlin Canal	Nutrients Organic enrichment/low DO
120106	Bayou Plaquemine-Plaquemine Lock to Intracoastal Waterway Louisiana	Nutrients Organic enrichment/low DO
120107	Upper Grand River and Lower Flat River-Headwaters to Intracoastal Waterway	Organic enrichment/low DO
120110	Bayou Cholpi-Headwaters to Intracoastal Waterway	Organic enrichment/low DO
120204	Lake Verret and Grassy Lake	Nutrients Organic enrichment/low DO
120304	Intracoastal Waterway Houma to LaRose	Nutrients Organic enrichment/low DO
120401	Bayou Penchant-Bayou Chene to Lake Penchant	Organic enrichment/low DO
120403	Intracoastal Waterway-Bayou Boeuf Locks to boundary between segments 1204 and 1203, at Houma (includes segments of Bayous Boeuf, Black and Chene)	Organic enrichment/low DO
120404	Lake Penchant	Organic enrichment/low DO
120405	Lake Hache, Lake Theriot	Nutrients Organic enrichment/low DO
120604	Bayou Blue-Intracoastal Waterway to boundary between segments 1206 and 1207	Organic enrichment/low DO
120709	Bayou Petit Caillou-From Houma Navigation Canal to Terrebonne Bay at Tambour Bay, Louisiana	Organic enrichment/low DO

Data support a conclusion that Water Quality Standards are exceeded for the Category 4c waterbodies listed

LDEQ for purposes of evaluating waters for the Integrated Report placed approximately 95 waterbody pollutant combinations in category 4c as exceeding their applicable criteria

due to “natural conditions”. According to LDEQ’s 2006 Integrated Report, the decision to place these waterbodies in Category 4c was based on field surveys and reviewed by regional staff. LDEQ argued that the standards for these segments in many cases were not appropriate and Use Attainability Analyses were needed to change criteria, therefore these waters did not belong in Category 5 of the 2006 303(d) list. EPA disagrees with LDEQ’s decision not to list some Category 4c waterbody pollutant combinations in Category 5 on the 2006 §303(d) List.

Louisiana’s Water Quality Standards (See LAC 33, Part IX, Chapter 11) make reference to natural conditions, i.e., natural background levels, for both General Criteria (See LAC 33, Part IX, Chapter 11, §1113.B) and Numeric Criteria (See LAC 33, Part IX, Chapter 11, §1113.C) in the context of establishing site-specific water quality criteria. Specifically, general and numerical water quality criteria may be modified to take into account site-specific, local conditions. The provisions do not allow for development and application of criteria based on natural background levels outside of the site-specific context. In this case, in the absence of either a natural background provision supporting criteria that may be set equal to a less stringent natural background level or site-specific criteria based on natural background levels, the otherwise applicable criteria stands as the basis for determining whether a waterbody is impaired. In such circumstances, when a criterion is not achieved in a waterbody, EPA would generally expect the State to include that waterbody on its 303(d) list. See item 6 of the Administrative Record. Therefore EPA has determined the following 32 pollutant waterbody combinations should be listed as impaired based on a finding of nonsupport.

Sub-segment	Description	Parameter
<hr/>		
Barataria (03)		
020302	Bayou Gauche	Nutrients Organic enrichment/low DO
020902	Little Lake (Estuarine)	Total Fecal Coliform
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Calcasieu (04)		
030501	Whiskey Chitto Creek-Headwaters to southern boundary of Fort Polk Military Reservation	Total Fecal Coliform
030802	Hickory Branch-Headwaters to West Fork Calcasieu River	Total Fecal Coliform
030806	Houston River-From junction with Bear Head Creek at Parish Road to West Fork Calcasieu River	pH, low
030807	Bear Head Creek-Headwaters to junction with Houston River at Parish Road	pH, low
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Ouachita (11)		
080601	Bayou D’Arbonne-Headwaters to Lake Clairborne	Color
080601	Bayou D’Arbonne-Headwaters to Lake Claiborne	pH, low
080606	Cypress Creek Headwaters to Bayou D’Arbonne	Sulfates

	(includes Colvin Creek)	
080606	Cypress Creek-Headwaters to Bayou D'Arbonne (includes Colvin Creek)	Total Dissolved Solids
080607	Corney Bayou-From Arkansas State Line to Corney Creek (Scenic)	pH, low
080608	Corney Lake	pH, low
080801	Cheniere Creek	Organic enrichment/low DO
080801	Cheniere Creek	pH, low
081301	Little River-Archie Dam to Ouachita River	Sulfates
081503	Beaucoup Creek-Headwaters to Castor Creek	pH, low
081504	Flat Creek-Headwaters to Castor Creek	Total Dissolved Solids

Red (08)		
100301	Black Bayou-Texas State Line to La. Hwy. 1 at Bayou Lake	Organic enrichment/low DO
100302	Black Bayou Lake-From La. Hwy. 1 to spillway	Organic enrichment/low DO
100308	Paw Paw Bayou and Tributaries-Texas State Line to Cross Lake	Organic enrichment/low DO
100309	Cross Bayou-Texas State Line to Cross Lake	Organic enrichment/low DO
101501	Big Saline Bayou-Catahoula Lake to Saline Lake	Organic enrichment/low DO
100308	Paw Paw Bayou and Tributaries-Texas State Line to Cross Lake	Color
101103	Bayou Kisatchie-Entrance into Kisatchie National Forest to Old River (Scenic)	pH, low
101506	Big Creek-Headwaters to Saline Lake	pH, low

Terrebonne (06)		
120204	Lake Verret and Grassy Lake	Turbidity
120401	Bayou Penchant-Bayou Chene to Lake Penchant	Turbidity
120405	Lake Hache, Lake Theriot	Turbidity
120605	Bayou Pointe au Chien-Source to boundary between 1206 and 1207	Chloride
120605	Bayou Pointe au Chien-Source to boundary between 1206 and 1207	Sulfates

A list of waters LDEQ reported in Category 4c, upon which EPA will not take a re-listing action, is included in Appendix A of this document. EPA did not add these waters to Category 5 of the 2006 §303(d) list for the following reasons:

- Some waters were not listed in the previous 2004 303(d) cycle and no new data has been collected as part of the Rotating Basin Monitoring Program for the 2006 §303(d) cycle. These waters were considered to have the same category as in the 2004 listing cycle. See item no. 5 of administrative record for a description of LDEQ's Rotating Basin Monitoring Plan
- TMDLs were completed and approved by EPA for some waterbodies
- LDEQ was able to provide new data to show some pollution concentrations were no longer exceeding the applicable criteria.

It should be noted that EPA also disagrees with LDEQ's argument to place waters, where the impairment is due to natural conditions, in Category 4c. According to EPA's 2008 Integrated Reporting Guidance, waterbodies should be placed in Category 4c when "the State demonstrates that the failure to meet water quality standards is not caused by a pollutant, but is instead caused by pollution". Examples of circumstances where an impaired segment may be placed in Category 4c include waterbodies impaired solely due to lack of adequate flow or to stream channelization. See item no. 6 of Administrative Record for information on Category 4c. EPA believes that the segments LDEQ placed in Category 4c are clearly impaired due to pollutants. EPA feels that Category 3 would be an appropriate category for those waterbodies presently listed in Category 4c where no additional data or information was available and no re-listing action was taken.

Data support a conclusion that Water Quality Standards are exceeded for the Category 2 waterbodies listed.

LDEQ, for purposes of evaluating waterbodies for the 2006 Integrated Report, placed approximately 100 waterbody pollutant combinations in Category 2, as data demonstrate that some, but not all, uses are being met. These waters were previously reported in Category 3 ("insufficient information to make use support determination") on Louisiana's 2004 §303(d) List submittal. See Item no. 7 of Administrative Record for information on LDEQ's argument for placing waterbodies in Category 3. No additional information was submitted to EPA to justify the change in classification from Category 3 to Category 2 on the 2006 §303(d) list. LDEQ has argued that these waters were exceeding applicable criteria due to drought, natural conditions or unknown sources and that additional information was needed to make an appropriate assessment. LDEQ did not provide the supporting information to EPA to justify that some of these Category 2 waterbodies should not be reported in Category 5 of the 2006 Integrated Report. EPA disagrees with LDEQ's decision to not place some of these waters in Category 5 on the 2006 303(d) list. Therefore EPA has determined that the following 29 waterbody-

pollutant combinations should be listed in Category 5 for Chloride, Sulfates, Total Dissolved Solids and Turbidity.

Sub-segment	Description	Parameter
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Barataria (14)		
020201	Bayou Des Allemands Lac Des Allemands to U.S. Hwy 90 (Scenic)	Turbidity
020301	Bayou Des Allemands U.S. Hwy 90 to Lake Salvador (Scenic)	Turbidity
020302	Bayou Gauche	Chloride
020302	Bayou Gauche	Sulfates
020302	Bayou Gauche	Total Dissolved Solids
020303	Lake Cataouatche and Tributaries	Chloride
020303	Lake Cataouatche and Tributaries	Total Dissolved Solids
020304	Lake Salvador	Chloride
020304	Lake Salvador	Sulfates
020304	Lake Salvador	Total Dissolved Solids
020501	St. Charles Parish Canals and Bayous in Segment 0205	Chloride
020501	St. Charles Parish Canals and Bayous in Segment 0205	Sulfates
020501	St. Charles Parish Canals and Bayous in Segment 0205	Total Dissolved Solids
020701	Bayou Segnette-origin to Bayou Villars	Sulfates
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Calcasieu (01)		
030601	Barnes Creek-Headwaters to entrance of Little Barnes Creek	Total Dissolved Solids
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Ponchartrain (02)		
040901	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	Chloride
040903	Bayou Cane-Headwaters to U.S. Hwy. 190 (Scenic)	Chloride
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Ouachita (03)		
080906	Turkey Creek-From Turkey Creek Cutoff to Turkey Creek Lake	Chloride
080906	Turkey Creek-From Turkey Creek Cutoff to Turkey Creek Lake	Total Dissolved Solids
081605	Little River-From Catahoula Lake to dam at Archie	Organic Enrichment/low DO
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Red (04)		
100101	Red River-Arkansas State Line to Alexandria (La. Hwy. 165)	Sulfates

100308	Paw Paw Bayou and Tributaries-Texas State Line to Cross Lake	Chloride
100308	Paw Paw Bayou and Tributaries-Texas State Line to Cross Lake	Sulfates
100308	Paw Paw Bayou and Tributaries-Texas State Line to Cross Lake	Total Dissolved Solids
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Terrebonne (05)		
120505	Bayou Du Large-from Houma to Marmande Canal	Chloride
120505	Bayou Du Large-from Houma to Marmande Canal	Total Dissolved Solids
120505	Bayou Du Large-from Houma to Marmande Canal	Sulfates
120604	Bayou Blue-Intracoastal Waterway to boundary between segments 1206 and 1207	Total Dissolved Solids
120109	Intracoastal Waterway-Morgan City to Port Allen Route-Port Allen Locks to Bayou Sorrel Locks	Sulfates

EPA did not re-list all waters reported in Category 2 of LDEQ’s 2006 Integrated Report. A list of waters LDEQ reported in Category 2, which EPA did not take a re-listing action on is included in Appendix B of this document. EPA did not take a re-listing action on these waters for the following reasons:

- Some waters were not listed in the previous 2004 303(d) cycle and no new data has been collected as part of the Rotating Basin Monitoring Program for the 2006 303(d) cycle. These waters were considered to have the same category as in the 2004 listing cycle. See item no. 5 of administrative record for a description of LDEQ’s Rotating Basin Monitoring Plan
- TMDLs were completed and approved by EPA for some waterbodies
- LDEQ provided new data to demonstrate that some waters were no longer exceeding the applicable criteria.

Decision to Remove Waters from Louisiana’s 2006 Section 303(d) List

EPA is delisting the following waterbody pollutant combinations from Category 5 of the 2006 section 303(d) List. The decision to delist was based on contradictory results for dissolved oxygen grab sample data collected as part of the LDEQ’s routine monitoring program and dissolved oxygen continuous monitoring data. The following waterbody pollutant combination will be reported in Category 3 as “insufficient information to make use support determination” and reassessed in future cycles to determine use attainment.

Sub-segment Description	Parameter
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Terrebonne(2)	
120707 Lake Boudreaux	Organic enrichment/low DO Nutrients

Priority Ranking and Targeting

EPA reviewed the State's priority ranking of listed waters for TMDL development, and concluded that the State properly took into account the severity of pollution and the uses to be made of such waters. The State's priority ranking falls into seven categories consistent with the Consent Decree Attachment B schedule.

In addition, EPA reviewed the State's identification of WQLSs targeted for TMDL development in the next two years and concluded that the targeted waters are appropriate for TMDL development in this time frame. EPA concludes that the State's priority ranking and targeting commitments are consistent with federal requirements and Consent Decree commitments.

Administrative Record Supporting This Action

In support of this decision to partially approve the State's listing decisions, EPA carefully reviewed the materials submitted by the State with its 303(d) listing decision. The administrative record supporting EPA's decision comprises the materials submitted by the State, copies of section 303(d), associated federal regulations, assessment methodology, EPA guidance concerning preparation of section 303(d) lists, and this decision letter and supporting reports. EPA determined that the materials provided by the State with its submittal provided sufficient documentation to support our analysis and findings that the State listing decisions meet the requirements of the Clean Water Act and associated federal regulations. We are aware that the State compiled and considered additional materials (e.g. raw data and water quality analysis reports) as part of its list development process that were not included in the materials submitted to EPA. EPA did not consider these additional materials as part of its review of the listing submission. It was unnecessary for EPA to consider all of the materials considered by the State in order to determine that, based on the materials submitted to EPA by the State, the State complied with the applicable federal listing requirements. Moreover, federal regulations do not require the State to submit all data and information considered as part of the listing submission.

Appendix A
Category 4c Waterbodies Which EPA Did Not Add To the 2006 303(d) List

Sub-segment Description	Parameter
<hr/> Calcasieu (01) <hr/>	
030803 Beckwith Creek-Headwaters to West Fork Calcasieu River	Organic enrichment/low DO
<hr/> Pearl (06) <hr/>	
090506 Thigpen Creek at Mill Creek Road	Organic Enrichment/low DO
090104 Peters Creek-Headwaters to Pearl River	pH, low
090504 Lawrence Creek-Headwaters to the Bogue Chitto River	pH, low
090505 Bonner Creek-Headwaters to the Bogue Chitto River	pH, low
090506 Thigpen Creek-Headwaters to the Bogue Chitto River	pH, low
090107 Pearl River-From Pearl River Navigation Canal to Holmes Bayou	Sulfates
<hr/> Ponchartrain (11) <hr/>	
041202 Bayou Trepagnier north of Norco, Louisiana	Organic Enrichment/low DO
041804 Bayou Dupre adjacent to Toca loading dock	Organic Enrichment/low DO
041806 Bayou Pirogue near New Canal, Louisiana	Organic Enrichment/low DO
041807 Bayou Terre Beau near New Canal, Louisiana	Organic Enrichment/low DO
041808 New Canal (Estuarine)	Organic Enrichment/low DO
042004 Bayou Bienvenue-Mississippi River Gulf Outlet to Bayou Villere (Estuarine)	Total Fecal Coliform
042102 River Aux Chenes (Oak River) Estuarine	Total Fecal Coliform
042103 Bayou Gentilly-From Bayou Terre Aux Boeufs to Lake Petite (Estuarine)	Total Fecal Coliform
042104 Lake Petit	Total Fecal Coliform
040901 Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	pH, low
040902 Bayou Lacombe-US Hwy. 190 to Lake Pontchartrain (Scenic)(Estuarine)	pH, low
<hr/> Ouachita (01) <hr/>	
081503 Beaucoup Creek –Headwaters to Castor Creek	Organic enrichment/low DO
<hr/> Red (37) <hr/>	
100401 Bodcau Bayou northwest of Belleview, Louisiana	Organic Enrichment/low DO
100403 Cypress Bayou at Highway 160 Hughes, Louisiana	Organic Enrichment/low DO
100603 Wallace Lake	Organic Enrichment/low DO
100604 Wallace Bayou-Wallace Lake to Bayou Pierre	Organic Enrichment/low DO
100605 Lake Edwards and Smithport Lake	Organic Enrichment/low DO
100701 Black Lake Bayou at Highway 793, southeast of Dubberly, Louisiana	Organic Enrichment/low DO
100704 Kepler Creek west of Bienville, Louisiana	Organic Enrichment/low DO
100709 Grand Bayou-Headwaters to Black Lake Bayou	Organic Enrichment/low DO
100801 Saline Bayou—from its origin near Arcadia to La. Hwy.156 in Win Parish (Scenic)	Organic Enrichment/low DO
100802 Saline Lake	Organic Enrichment/low DO
100901 Bayou Nantaches-Headwaters to Nantaches Lake	Organic Enrichment/low DO
101103 Bayou Kisatchie-Entrance into Kisatchie National Forest to Old River (Scenic)	Organic enrichment/low DO
101401 Buhlow Lake (Pineville)	Organic Enrichment/low DO
101505 Larto Lake	Organic Enrichment/low DO
100309 Cross Bayou-Texas State Line to Cross Lake	Color

100404	Cypress Bayou Reservoir	Color
100405	Black Bayou (including Black Bayou Reservoir)	Color
101101	Cane River-Above Natchitoches to Red River	Color
100701	Black Lake Bayou-Headwaters to Webster Bienville Parish Line	pH, Low
100704	Kepler Creek west of Bienville, Louisiana	pH, Low
100705	Kepler Lake	pH, Low
100708	Unnamed Tributary to Castor Creek near Town of Castor	pH, Low
101301	Rigolette Bayou-Headwaters to Red River	pH, Low
100707	Castor Creek-Headwaters to Black Lake Bayou	Total Fecal Coliform
100709	Grand Bayou-Headwaters to Black Lake Bayou	Total Fecal Coliform
100708	Unnamed Tributary to Castor Creek near Town of Castor To Old River	Sulfates
101505	Larto Lake	Sulfates
100701	Black Lake Bayou-Headwaters to Webster Bienville Parish Line	Total Dissolved Solids
100708	Unnamed Tributary to Castor Creek near Town of Castor	Total Dissolved Solids
100709	Grand Bayou-Headwaters to Black Lake Bayou	Total Dissolved Solids
101101	Cane River-Above Natchitoches to Red River	Total Dissolved Solids
101103	Bayou Kisatchie-Entrance into Kisatchie National Forest Solids to Old River (Scenic)	Total Dissolved Solids
101301	Rigolette Bayou-Headwaters to Red River	Total Dissolved Solids
101303	Latt Creek-Headwaters to Latt Lake	Total Dissolved Solids
101505	Larto Lake	Total Dissolved Solids
101401	Buhlow Lake (Pineville)	Turbidity
101505	Larto Lake	Turbidity
101602	Cocodrie Lake	Turbidity
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Sabine (02)		
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110502	East Anacoco Creek northeast of Anacoco, Louisiana	Organic Enrichment/low DO
110504	Bayou Anacoco-Vernon Lake to Anacoco Lake	Total Fecal Coliform
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Terrebonne (01)		
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120202	Bayou Black-Intracoastal Waterway to Houma	Organic Enrichment/low DO

Appendix B
Category 2 Waterbodies Which EPA did not add to Category 5 of the 2006 303(d)
List

Sub-segment	Description	Parameter
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Atchafalaya (01)		
060209	Irish Ditch/Big Bayou-Unnamed Ditch to Irish Ditch to Big Bayou to Irish Ditch No. 2 to Confluence with Bayou Rapides	Chloride
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Barataria (02)		
020301	Bayou Des Allemands U.S. Hwy.90 to Lake Salvador	Chloride
020301	Bayou Des Allemands U.S. Hwy.90 to Lake Salvador	Sulfates
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Ouachita (02)		
080906	Turkey Creek-From Turkey Creek Cutoff to Turkey Creek Lake	Chloride
080906	Turkey Creek-From Turkey Creek Cutoff to Turkey Creek Lake	Total Dissolved Solids
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Pearl (01)		
090102	East Pearl River-From confluence with Holmes Bayou to I-10	Chloride
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Ponchartrain (24)		
040502	Tickfaw River-La. Hwy. 42 to Lake Maurepas	Chloride
040803	Lower Tchefuncte River-From La. Hwy. 22 to Lake Ponchartrain	Chloride
040804	Bogue Falaya River-Headwaters to Tchefuncte River (Scenic)	Chloride
040901	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	Chloride
040902	Bayou Lacombe-U.S. Hwy. 190 to Lake Ponchartrain (Scenic)(Estuarine)	Chloride
040905	Bayou Liberty-Headwaters to La. Hwy. 433	Chloride
041101	Bonnet Carre Spillway	Chloride
040502	Tickfaw River-La. Hwy. 42 to Lake Maurepas	Sulfates
040803	Lower Tchefuncte River-From La. Hwy. 22 to Lake Ponchartrain	Sulfates
040901	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	Sulfates
040902	Bayou Lacombe-U.S. Hwy. 190 to Lake Ponchartrain (Scenic)(Estuarine)	Sulfates
040903	Bayou Cane-Headwaters to U.S. Hwy. 190 (Scenic)	Sulfates
040905	Bayou Liberty-Headwaters to La. Hwy. 433	Sulfates
041101	Bonnet Carre Spillway	Sulfates
040502	Tickfaw River-La. Hwy. 42 to Lake Maurepas	Total Dissolved Solids
040803	Lower Tchefuncte River-From La. Hwy. 22 to Lake Ponchartrain	Total Dissolved Solids
040901	Bayou Lacombe-Headwaters to U.S. Hwy. 190 (Scenic)	Total Dissolved Solids
040902	Bayou Lacombe-U.S. Hwy. 190 to Lake Ponchartrain	Total Dissolved Solids
040903	Bayou Cane-Headwaters to U.S. Hwy. 190 (Scenic)	Total Dissolved Solids
040905	Bayou Liberty-Headwaters to La. Hwy. 433	Total Dissolved Solids
040907	Bayou Bonfouca-Headwaters to La. Hwy. 433	Total Dissolved Solids
041101	Bonnet Carre Spillway	Total Dissolved Solids
040907	Bayou Bonfouca-Headwaters to La. Hwy. 433	Total Dissolved Solids

041202	Bayou Trepagnier-Norco to Bayou Labranche (Scenic) (Estuarine)	Turbidity
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Red (16)		
100202	Little River-Headwaters to Old River near Marksville	Organic Enrichment/low DO
101101	Cane River-Above Natchitoches to Red River	Organic Enrichment/low DO
101201	Cotlie Reservoir	Organic Enrichment/low DO
101503	Old Saline Bayou-From Saline Lake to Red River	Organic Enrichment/low DO
101601	Bayou Cocodrie-From Little Cross Bayou to Wild Cow Bayou (Scenic)	Organic Enrichment/low DO
101602	Cocodrie Lake	Organic Enrichment/low DO
101606	Bayou Cocodrie-Wild Cow Bayou To Red River	Organic Enrichment/low DO
100309	Cross Bayou-Texas State Line to Cross Lake	Turbidity
100602	Boggy Bayou Headwaters to Wallace Lake at U.S. Hwy. 171	Turbidity
100701	Black Lake Bayou-Headwaters to Webster-Bienville Parish Line	Turbidity
101503	Old Saline Bayou-From Saline Lake to Red River	Turbidity
100306	Kelly Bayou - Arkansas State Line to Black Bayou	Pesticides
100406	Flat River - Headwaters to Loggy Bayou	Pesticides
100506	Loggy Bayou - Flat River to Red River	Pesticides
100605	Lake Edwards and Smithport Lake	Unknown Toxicity
101606	Bayou Cocodrie - Wild Cow Bayou to Red River	Pesticides
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Sabine (01)		
110601	Vinton Waterway-Vinton to Intracoastal Waterway (Estuarine)	Turbidity
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Terrebonne (34)		
120101	Bayou Portage	Turbidity
120102	Bayou Poydras	Turbidity
120105	Chamberlin Canal	Turbidity
120206	Grand Bayou and Little Grand Bayou-Headwaters to Lake Verret	Total Suspended Solids
120101	Bayou Portage	Pesticides
120105	Chamberlin Canal	Pesticides
120106	Bayou Plaquemine-Plaquemine Lock to Intracoastal Waterway	Non-priority organics Priority organics
120108	False River	Pesticides
120109	Intracoastal Waterway-Morgan City to Port Allen Route-Port Allen Locks to Bayou Sorrel Locks	Pesticides
120201	Lower Grand River and Belle River-Bayou Sorrel Lock to Lake Palourde (includes Bay Natchez, Lake Natchez, Bayou Milhomme, and Bayou Long)	Pesticides
120202	Bayou Black-Intracoastal Waterway to Houma	Pesticides
120204	Lake Verret and Grassy Lake	Pesticides
120205	Lake Palourde	Pesticides
120301	Bayou Terrebonne-Thibodaux to boundary between segments 1203 and 1206, at Houma	Pesticides
120302	Company Canal-From Bayou Lafourche to Intracoastal Waterway	Pesticides
120303	Lake Long	Pesticides
120402	Bayou Chene- from Intracoastal Waterway to Bayou Penchant	Priority Organics
120403	Intracoastal Waterway-Bayou Boeuf Locks to boundary between segments 1204 and 1203, at Houma (includes segments of Bayous Boeuf, Black, and Chene)	Priority Organics

120501	Bayou Grand Caillou-Houma to Bayou Pelton	Pesticides
120502	Bayou Grand Caillou - From Bayou Pelton to the boundary between segments 1205 and 1207 (Estuarine)	Pesticides
120503	Bayou Petite Caillou - From Bayou Terrebonne to Klondyke Road Bridge	Pesticides
120504	Bayou Petite Caillou - Klondyke Road Bridge to boundary between segments 1205 and 1207 (Estuarine)	Pesticides
120505	Bayou Du Large - Houma to Marmande Canal	Pesticides
120506	Bayou Du Large - Marmande Canal to the boundary between segments 1205 and 1207 (Estuarine)	Pesticides
120509	Houma Navigation Canal - Houma to Bayou Pelton	Priority Organics
120601	Bayou Terrebonne - Houma to Company Canal (Estuarine)	Priority Organics
120603	Company Canal - from Intracoastal Waterway to Bayou Terrebonne	Priority Organics
120604	Bayou Blue - Intracoastal Waterway to boundary between segments 1206 and 1207	Priority Organics
120605	Bayou Pointe Au Chien - Source to boundary between segments 1206 and 1207 (Estuarine)	Priority Organics Pesticides
120703	Bayou du Large - From the boundary between segments 1205 and 1207 to Caillou Bay (Estuarine)	Priority Organics
120704	Bayou Terrebonne - From Humble Canal to Lake Barre (Estuarine)	Priority Organics
120707	Lake Boudreaux	Priority Organics