Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use						
Dissolved Oxygen grab average	No Concern	Eastern end of reservoir near dam	4,123	30	1	
Dissolved Oxygen grab average	No Concern	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Dissolved Oxygen grab average	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	9	1	
Dissolved Oxygen grab average	No Concern	Western end of reservoir near upper segment boundary	2,770	30	0	
Dissolved Oxygen grab minimum	Fully Supporting	Eastern end of reservoir near dam	4,123	30	0	
Dissolved Oxygen grab minimum	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Dissolved Oxygen grab minimum	No Concern-Limited Data	Northern arm of reservoir near town of Somerville	1,184	9	0	
Dissolved Oxygen grab minimum	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	30	0	
Dissolved Oxygen 24hr average	Not Assessed	Eastern end of reservoir near dam	4,123	0		
Dissolved Oxygen 24hr average	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
Dissolved Oxygen 24hr average	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
Dissolved Oxygen 24hr average	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Eastern end of reservoir near dam	4,123	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
Dissolved Oxygen 24hr minimum	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
Acute Metals in water	Not Assessed	Eastern end of reservoir near dam	4,123	1		
Chronic Metals in water	Not Assessed	Eastern end of reservoir near dam	4,123	1		
Acute Organics in water	Not Assessed	Eastern end of reservoir near dam	4,123	2		
Chronic Organics in water	Not Assessed	Eastern end of reservoir near dam	4,123	2		

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use (continued)						
Overall Aquatic Life Use	Fully Supporting	Eastern end of reservoir near dam	4,123			
Overall Aquatic Life Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
Overall Aquatic Life Use	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
Overall Aquatic Life Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Contact Recreation Use						
E. coli single sample	Not Assessed	Eastern end of reservoir near dam	4,123	0		
E. coli single sample	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
E. coli single sample	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
E. coli single sample	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
E. coli geometric mean	Not Assessed	Eastern end of reservoir near dam	4,123	0		
E. coli geometric mean	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
E. coli geometric mean	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
E. coli geometric mean	Not Assessed	Western end of reservoir near upper segment boundary	2,770	0		
Fecal coliform single sample	Fully Supporting	Eastern end of reservoir near dam	4,123	27	0	
Fecal coliform single sample	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Fecal coliform single sample	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10	0	
Fecal coliform single sample	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29	0	
Fecal coliform geometric mean	Fully Supporting	Eastern end of reservoir near dam	4,123	27		2.9
Fecal coliform geometric mean	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10		4.3
Fecal coliform geometric mean	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10		4

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Contact Recreation Use (continued)						
Fecal coliform geometric mean	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29		6.7
Overall Recreation Use	Fully Supporting	Eastern end of reservoir near dam	4,123			
Overall Recreation Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
Overall Recreation Use	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
Overall Recreation Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
General Use						
Water Temperature	Fully Supporting	Eastern end of reservoir near dam	4,123	26	0	
Water Temperature	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Water Temperature	No Concern-Limited Data	Northern arm of reservoir near town of Somerville	1,184	9		
Water Temperature	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	31	0	
pH	Partially Supporting	Eastern end of reservoir near dam	4,123	26	5	
pH	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
pH	No Concern-Limited Data	Northern arm of reservoir near town of Somerville	1,184	9		
pH	Use Concern	Western end of reservoir near upper segment boundary	2,770	31	4	
Chloride	Fully Supporting	Eastern end of reservoir near dam	4,123	81		48.1
Chloride	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	81		48.1
Chloride	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	81		48.1
Chloride	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	81		48.1
Sulfate	Fully Supporting	Eastern end of reservoir near dam	4,123	79		58.2
Sulfate	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	79		58.2

Segment ID: 1212 Water body name: Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
General Use (continued)						
Sulfate	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	79		58.2
Sulfate	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	79		58.2
Total Dissolved Solids	Fully Supporting	Eastern end of reservoir near dam	4,123	82		263.1
Total Dissolved Solids	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	82		263.1
Total Dissolved Solids	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	82		263.1
Total Dissolved Solids	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	82		263.1
Overall General Use	Partially Supporting	Eastern end of reservoir near dam	4,123			
Overall General Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
Overall General Use	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
Overall General Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Fish Consumption Use						
Human Health Criteria Metals	Not Assessed	Eastern end of reservoir near dam	4,123	1		
Human Health Criteria Organics	Not Assessed	Eastern end of reservoir near dam	4,123	2		
Overall Fish Consumption Use	Not Assessed	Eastern end of reservoir near dam	4,123			
Overall Fish Consumption Use	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
Overall Fish Consumption Use	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
Overall Fish Consumption Use	Not Assessed	Western end of reservoir near upper segment boundary	2,770			
Public Water Supply Use						
Finished Water: Running Avg	Fully Supporting	Eastern end of reservoir near dam	4,123			
Finished Water: Running Avg	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
Finished Water: Running Avg	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Use (continued)						
Finished Water: Running Avg	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Surface Water: Long-term average Metals	Not Assessed	Eastern end of reservoir near dam	4,123	1		
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Eastern end of reservoir near dam	4,123	28		0.07
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10		0.1
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10		0.05
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29		0.12
Surface Water: Long-term average Organics	Not Assessed	Eastern end of reservoir near dam	4,123	2		
Surface Water: Running average Metals	Not Assessed	Eastern end of reservoir near dam	4,123	1	0	
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Eastern end of reservoir near dam	4,123	28	0	
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184	10	0	
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Western end of reservoir near upper segment boundary	2,770	29	0	
Surface Water: Running average Organics	Not Assessed	Eastern end of reservoir near dam	4,123	2	0	
Overall Public Water Supply Use	Fully Supporting	Eastern end of reservoir near dam	4,123			
Overall Public Water Supply Use	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
Overall Public Water Supply Use	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Use (continued)						
Overall Public Water Supply Use	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Overall Use Support						
	Partially Supporting	Eastern end of reservoir near dam	4,123			
	Fully Supporting	Middle of reservoir near Birch Creek State Park	4,483			
	Fully Supporting	Northern arm of reservoir near town of Somerville	1,184			
	Fully Supporting	Western end of reservoir near upper segment boundary	2,770			
Nutrient Enrichment Concern						
Ammonia Nitrogen	Not Assessed	Eastern end of reservoir near dam	4,123	3	0	
Ammonia Nitrogen	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
Ammonia Nitrogen	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
Ammonia Nitrogen	Not Assessed	Western end of reservoir near upper segment boundary	2,770	1	0	
Nitrite + Nitrate Nitrogen	No Concern	Eastern end of reservoir near dam	4,123	28	2	
Nitrite + Nitrate Nitrogen	No Concern	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Nitrite + Nitrate Nitrogen	No Concern	Northern arm of reservoir near town of Somerville	1,184	10	0	
Nitrite + Nitrate Nitrogen	No Concern	Western end of reservoir near upper segment boundary	2,770	29	3	
Orthophosphorus	No Concern	Eastern end of reservoir near dam	4,123	28	2	
Orthophosphorus	No Concern	Middle of reservoir near Birch Creek State Park	4,483	10	0	
Orthophosphorus	No Concern	Northern arm of reservoir near town of Somerville	1,184	10	0	
Orthophosphorus	No Concern	Western end of reservoir near upper segment boundary	2,770	28	3	
Total Phosphorus	Not Assessed	Eastern end of reservoir near dam	4,123	3	0	

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Nutrient Enrichment Concern (continued)						
Total Phosphorus	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
Total Phosphorus	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
Total Phosphorus	Not Assessed	Western end of reservoir near upper segment boundary	2,770	1	0	
Overall Nutrient Enrichment Concerns	No Concern	Eastern end of reservoir near dam	4,123			
Overall Nutrient Enrichment Concerns	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Overall Nutrient Enrichment Concerns	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Overall Nutrient Enrichment Concerns	No Concern	Western end of reservoir near upper segment boundary	2,770			
Algal Growth Concern						
Chlorophyll a	Not Assessed	Eastern end of reservoir near dam	4,123	3	2	
Chlorophyll a	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483	0		
Chlorophyll a	Not Assessed	Northern arm of reservoir near town of Somerville	1,184	0		
Chlorophyll a	Not Assessed	Western end of reservoir near upper segment boundary	2,770	1	1	
Sediment Contaminants Concern						
Overall Sediment Contaminant Concerns	Not Assessed	Eastern end of reservoir near dam	4,123			
Overall Sediment Contaminant Concerns	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
Overall Sediment Contaminant Concerns	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
Overall Sediment Contaminant Concerns	Not Assessed	Western end of reservoir near upper segment boundary	2,770			

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Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Fish Tissue Contaminants Concern						
Overall Fish Tissue Contaminant Concerns	Not Assessed	Eastern end of reservoir near dam	4,123			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Western end of reservoir near upper segment boundary	2,770			
Public Water Supply Concern						
Finished Water: Chloride	No Concern	Eastern end of reservoir near dam	4,123			
Finished Water: Chloride	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Finished Water: Chloride	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Finished Water: Chloride	No Concern	Western end of reservoir near upper segment boundary	2,770			
Finished Water: Sulfate	No Concern	Eastern end of reservoir near dam	4,123			
Finished Water: Sulfate	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Finished Water: Sulfate	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Finished Water: Sulfate	No Concern	Western end of reservoir near upper segment boundary	2,770			
Finished Water: Total Dissolved Solids	No Concern	Eastern end of reservoir near dam	4,123			
Finished Water: Total Dissolved Solids	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Finished Water: Total Dissolved Solids	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Finished Water: Total Dissolved Solids	No Concern	Western end of reservoir near upper segment boundary	2,770			
Finished Water: MTBE	No Concern	Eastern end of reservoir near dam	4,123			
Finished Water: MTBE	No Concern	Middle of reservoir near Birch Creek State Park	4,483			

Segment ID: 1212 **Water body name:** Somerville Lake

Reservoir | Brazos River Basin | Total size: 12,560 Acres

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Concern (continued)						
Finished Water: MTBE	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Finished Water: MTBE	No Concern	Western end of reservoir near upper segment boundary	2,770			
Finished Water: Perchlorate	Not Assessed	Eastern end of reservoir near dam	4,123			
Finished Water: Perchlorate	Not Assessed	Middle of reservoir near Birch Creek State Park	4,483			
Finished Water: Perchlorate	Not Assessed	Northern arm of reservoir near town of Somerville	1,184			
Finished Water: Perchlorate	Not Assessed	Western end of reservoir near upper segment boundary	2,770			
Finished Water: Overall	No Concern	Eastern end of reservoir near dam	4,123			
Finished Water: Overall	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Finished Water: Overall	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Finished Water: Overall	No Concern	Western end of reservoir near upper segment boundary	2,770			
Surface Water: Chloride	No Concern	Eastern end of reservoir near dam	4,123	81		48.1
Surface Water: Chloride	No Concern	Middle of reservoir near Birch Creek State Park	4,483	81		48.1
Surface Water: Chloride	No Concern	Northern arm of reservoir near town of Somerville	1,184	81		48.1
Surface Water: Chloride	No Concern	Western end of reservoir near upper segment boundary	2,770	81		48.1
Surface Water: Sulfate	No Concern	Eastern end of reservoir near dam	4,123	79		58.2
Surface Water: Sulfate	No Concern	Middle of reservoir near Birch Creek State Park	4,483	79		58.2
Surface Water: Sulfate	No Concern	Northern arm of reservoir near town of Somerville	1,184	79		58.2
Surface Water: Sulfate	No Concern	Western end of reservoir near upper segment boundary	2,770	79		58.2
Surface Water: Total Dissolved Solids	No Concern	Eastern end of reservoir near dam	4,123	82		263.1
Surface Water: Total Dissolved Solids	No Concern	Middle of reservoir near Birch Creek State Park	4,483	82		263.1

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Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Public Water Supply Concern (continued)						
Surface Water: Total Dissolved Solids	No Concern	Northern arm of reservoir near town of Somerville	1,184	82		263.1
Surface Water: Total Dissolved Solids	No Concern	Western end of reservoir near upper segment boundary	2,770	82		263.1
Surface Water: Overall	No Concern	Eastern end of reservoir near dam	4,123			
Surface Water: Overall	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Surface Water: Overall	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Surface Water: Overall	No Concern	Western end of reservoir near upper segment boundary	2,770			
Overall Public Water Supply Concerns	No Concern	Eastern end of reservoir near dam	4,123			
Overall Public Water Supply Concerns	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Overall Public Water Supply Concerns	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Overall Public Water Supply Concerns	No Concern	Western end of reservoir near upper segment boundary	2,770			
Narrative Criteria Concern						
Overall Narrative Criteria Concerns	No Concern	Eastern end of reservoir near dam	4,123			
Overall Narrative Criteria Concerns	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
Overall Narrative Criteria Concerns	No Concern	Northern arm of reservoir near town of Somerville	1,184			
Overall Narrative Criteria Concerns	No Concern	Western end of reservoir near upper segment boundary	2,770			
Overall Secondary Concern						
	No Concern	Eastern end of reservoir near dam	4,123			
	No Concern	Middle of reservoir near Birch Creek State Park	4,483			
	No Concern	Northern arm of reservoir near town of Somerville	1,184			
	No Concern	Western end of reservoir near upper segment boundary	2,770			