

Segment ID: 1221 Water body name: Leon River Below Proctor Lake

Freshwater Stream

Brazos River Basin

Total size:

173

Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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Aquatic Life Use

2002	Dissolved Oxygen grab average	No Concern	Portion of segment downstream of Gatesville	42	39	0	
2002	Dissolved Oxygen grab average	No Concern	Portion of segment east of Hamilton	37	21	2	
2002	Dissolved Oxygen grab average	No Concern	Portion of segment north of Gustine	14	25	0	
2002	Dissolved Oxygen grab average	No Concern	Portion of segment upstream of Gatesville	37	42	1	
2002	Dissolved Oxygen grab average	No Concern	Portion of segment west of US Hwy 281	30	15	0	
2002	Dissolved Oxygen grab average	Use Concern	Upstream portion of segment	13	53	7	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Portion of segment downstream of Gatesville	42	39	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Portion of segment east of Hamilton	37	21	1	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Portion of segment north of Gustine	14	25	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Portion of segment upstream of Gatesville	37	42	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Portion of segment west of US Hwy 281	30	15	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Upstream portion of segment	13	53	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Portion of segment downstream of Gatesville	42	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Portion of segment east of Hamilton	37	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Portion of segment north of Gustine	14	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Portion of segment upstream of Gatesville	37	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Portion of segment west of US Hwy 281	30	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Upstream portion of segment	13	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Portion of segment downstream of Gatesville	42	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Portion of segment east of Hamilton	37	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Portion of segment north of Gustine	14	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Portion of segment upstream of Gatesville	37	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Portion of segment west of US Hwy 281	30	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Upstream portion of segment	13	0		

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Aquatic Life Use (continued)

2002	Acute Metals in water	Fully Supporting	Upstream portion of segment	13	11	0	
2002	Overall Aquatic Life Use	Fully Supporting	Portion of segment downstream of Gatesville	42			
2002	Overall Aquatic Life Use	Fully Supporting	Portion of segment east of Hamilton	37			
2002	Overall Aquatic Life Use	Fully Supporting	Portion of segment north of Gustine	14			
2002	Overall Aquatic Life Use	Fully Supporting	Portion of segment upstream of Gatesville	37			
2002	Overall Aquatic Life Use	Fully Supporting	Portion of segment west of US Hwy 281	30			
2002	Overall Aquatic Life Use	Fully Supporting	Upstream portion of segment	13			

Contact Recreation Use

2002	E. coli single sample	Not Assessed	Portion of segment downstream of Gatesville	42	0		
2002	E. coli single sample	Not Assessed	Portion of segment east of Hamilton	37	0		
2002	E. coli single sample	Not Assessed	Portion of segment north of Gustine	14	0		
2002	E. coli single sample	Not Assessed	Portion of segment upstream of Gatesville	37	0		
2002	E. coli single sample	Not Assessed	Portion of segment west of US Hwy 281	30	0		
2002	E. coli single sample	Not Assessed	Upstream portion of segment	13	0		
2002	E. coli geometric mean	Not Assessed	Portion of segment downstream of Gatesville	42	0		
2002	E. coli geometric mean	Not Assessed	Portion of segment east of Hamilton	37	0		
2002	E. coli geometric mean	Not Assessed	Portion of segment north of Gustine	14	0		
2002	E. coli geometric mean	Not Assessed	Portion of segment upstream of Gatesville	37	0		
2002	E. coli geometric mean	Not Assessed	Portion of segment west of US Hwy 281	30	0		
2002	E. coli geometric mean	Not Assessed	Upstream portion of segment	13	0		
2002	Fecal coliform single sample	Fully Supporting	Portion of segment downstream of Gatesville	42	19	4	
2002	Fecal coliform single sample	Fully Supporting	Portion of segment east of Hamilton	37	19	2	
2002	Fecal coliform single sample	Not Supporting	Portion of segment north of Gustine	14	22	7	
2002	Fecal coliform single sample	Fully Supporting	Portion of segment upstream of Gatesville	37	39	8	

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Contact Recreation Use (continued)

2002	Fecal coliform single sample	Not Supporting	Portion of segment west of US Hwy 281	30	15	6	
2002	Fecal coliform single sample	Fully Supporting	Upstream portion of segment	13	45	8	
2002	Fecal coliform geometric mean	Fully Supporting	Portion of segment downstream of Gatesville	42	19		175.8
2002	Fecal coliform geometric mean	Fully Supporting	Portion of segment east of Hamilton	37	19		193.6
2002	Fecal coliform geometric mean	Not Supporting	Portion of segment north of Gustine	14	22		247
2002	Fecal coliform geometric mean	Fully Supporting	Portion of segment upstream of Gatesville	37	39		135
2002	Fecal coliform geometric mean	Not Supporting	Portion of segment west of US Hwy 281	30	15		319
2002	Fecal coliform geometric mean	Fully Supporting	Upstream portion of segment	13	45		178
2002	Overall Recreation Use	Fully Supporting	Portion of segment downstream of Gatesville	42			
2002	Overall Recreation Use	Fully Supporting	Portion of segment east of Hamilton	37			
2002	Overall Recreation Use	Not Supporting	Portion of segment north of Gustine	14			
2002	Overall Recreation Use	Fully Supporting	Portion of segment upstream of Gatesville	37			
2002	Overall Recreation Use	Not Supporting	Portion of segment west of US Hwy 281	30			
2002	Overall Recreation Use	Fully Supporting	Upstream portion of segment	13			

General Use

2002	Water Temperature	Fully Supporting	Portion of segment downstream of Gatesville	42	39	0	
2002	Water Temperature	Fully Supporting	Portion of segment east of Hamilton	37	20	0	
2002	Water Temperature	Fully Supporting	Portion of segment north of Gustine	14	25	0	
2002	Water Temperature	Fully Supporting	Portion of segment upstream of Gatesville	37	49	0	
2002	Water Temperature	Fully Supporting	Portion of segment west of US Hwy 281	30	15	0	
2002	Water Temperature	Fully Supporting	Upstream portion of segment	13	54	0	
2002	pH	Fully Supporting	Portion of segment downstream of Gatesville	42	39	0	
2002	pH	Fully Supporting	Portion of segment east of Hamilton	37	20	0	
2002	pH	Fully Supporting	Portion of segment north of Gustine	14	25	0	

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General Use (continued)

2002	pH	Fully Supporting	Portion of segment upstream of Gatesville	37	42	0	
2002	pH	Fully Supporting	Portion of segment west of US Hwy 281	30	15	0	
2002	pH	Fully Supporting	Upstream portion of segment	13	54	0	
2002	Chloride	Fully Supporting	Portion of segment downstream of Gatesville	42	175		103.6
2002	Chloride	Fully Supporting	Portion of segment east of Hamilton	37	175		103.6
2002	Chloride	Fully Supporting	Portion of segment north of Gustine	14	175		103.6
2002	Chloride	Fully Supporting	Portion of segment upstream of Gatesville	37	175		103.6
2002	Chloride	Fully Supporting	Portion of segment west of US Hwy 281	30	175		103.6
2002	Chloride	Fully Supporting	Upstream portion of segment	13	175		103.6
2002	Sulfate	Fully Supporting	Portion of segment downstream of Gatesville	42	174		61.6
2002	Sulfate	Fully Supporting	Portion of segment east of Hamilton	37	174		61.6
2002	Sulfate	Fully Supporting	Portion of segment north of Gustine	14	174		61.6
2002	Sulfate	Fully Supporting	Portion of segment upstream of Gatesville	37	174		61.6
2002	Sulfate	Fully Supporting	Portion of segment west of US Hwy 281	30	174		61.6
2002	Sulfate	Fully Supporting	Upstream portion of segment	13	174		61.6
2002	Total Dissolved Solids	Fully Supporting	Portion of segment downstream of Gatesville	42	217		529.4
2002	Total Dissolved Solids	Fully Supporting	Portion of segment east of Hamilton	37	217		529.4
2002	Total Dissolved Solids	Fully Supporting	Portion of segment north of Gustine	14	217		529.4
2002	Total Dissolved Solids	Fully Supporting	Portion of segment upstream of Gatesville	37	217		529.4
2002	Total Dissolved Solids	Fully Supporting	Portion of segment west of US Hwy 281	30	217		529.4
2002	Total Dissolved Solids	Fully Supporting	Upstream portion of segment	13	217		529.4
2002	Overall General Use	Fully Supporting	Portion of segment downstream of Gatesville	42			
2002	Overall General Use	Fully Supporting	Portion of segment east of Hamilton	37			
2002	Overall General Use	Fully Supporting	Portion of segment north of Gustine	14			

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General Use (continued)

2002	Overall General Use	Fully Supporting	Portion of segment upstream of Gatesville	37			
2002	Overall General Use	Fully Supporting	Portion of segment west of US Hwy 281	30			
2002	Overall General Use	Fully Supporting	Upstream portion of segment	13			

Fish Consumption Use

2002	Human Health Criteria Metals	Fully Supporting	Upstream portion of segment	13	11		
2002	Human Health Criteria Organics	Fully Supporting	Upstream portion of segment	13	11		
2002	Overall Fish Consumption Use	Not Assessed	Portion of segment downstream of Gatesville	42			
2002	Overall Fish Consumption Use	Not Assessed	Portion of segment east of Hamilton	37			
2002	Overall Fish Consumption Use	Not Assessed	Portion of segment north of Gustine	14			
2002	Overall Fish Consumption Use	Not Assessed	Portion of segment upstream of Gatesville	37			
2002	Overall Fish Consumption Use	Not Assessed	Portion of segment west of US Hwy 281	30			
2002	Overall Fish Consumption Use	Fully Supporting	Upstream portion of segment	13			

Public Water Supply Use

2002	Finished Water: Running Avg	Fully Supporting	Upstream portion of segment	13			
2002	Surface Water: Long-term average Metals	Fully Supporting	Upstream portion of segment	13	11		
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment downstream of Gatesville	42	35		0.607
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment east of Hamilton	37	20		0.303
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment north of Gustine	14	22		0.343
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment upstream of Gatesville	37	26		0.767
2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment west of US Hwy 281	30	11		0.534

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Public Water Supply Use (continued)

2002	Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	Upstream portion of segment	13	51		0.298
2002	Surface Water: Long-term average Organics	Fully Supporting	Upstream portion of segment	13	11		
2002	Surface Water: Running average Metals	Fully Supporting	Upstream portion of segment	13	11	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment downstream of Gatesville	42	35	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment east of Hamilton	37	20	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment north of Gustine	14	22	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment upstream of Gatesville	37	26	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Portion of segment west of US Hwy 281	30	11	0	
2002	Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	Upstream portion of segment	13	51	0	
2002	Surface Water: Running average Organics	Fully Supporting	Upstream portion of segment	13	11	0	
2002	Overall Public Water Supply Use	Fully Supporting	Portion of segment downstream of Gatesville	42			
2002	Overall Public Water Supply Use	Fully Supporting	Portion of segment east of Hamilton	37			
2002	Overall Public Water Supply Use	Fully Supporting	Portion of segment north of Gustine	14			
2002	Overall Public Water Supply Use	Fully Supporting	Portion of segment upstream of Gatesville	37			
2002	Overall Public Water Supply Use	Fully Supporting	Portion of segment west of US Hwy 281	30			
2002	Overall Public Water Supply Use	Fully Supporting	Upstream portion of segment	13			

Overall Use Support

2002		Fully Supporting	Portion of segment downstream of Gatesville	42			
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Freshwater Stream Brazos River Basin Total size: 173 Miles

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Nutrient Enrichment Concern (continued)

2002	Total Phosphorus	Not Assessed	Portion of segment downstream of Gatesville	42	0		
2002	Total Phosphorus	Not Assessed	Portion of segment east of Hamilton	37	0		
2002	Total Phosphorus	Not Assessed	Portion of segment north of Gustine	14	0		
2002	Total Phosphorus	Not Assessed	Portion of segment upstream of Gatesville	37	5	0	
2002	Total Phosphorus	No Concern	Portion of segment west of US Hwy 281	30	10	0	
2002	Total Phosphorus	No Concern	Upstream portion of segment	13	13	0	
2002	Overall Nutrient Enrichment Concerns	No Concern	Portion of segment downstream of Gatesville	42			
2002	Overall Nutrient Enrichment Concerns	No Concern	Portion of segment east of Hamilton	37			
2002	Overall Nutrient Enrichment Concerns	No Concern	Portion of segment north of Gustine	14			
2002	Overall Nutrient Enrichment Concerns	No Concern	Portion of segment upstream of Gatesville	37			
2002	Overall Nutrient Enrichment Concerns	No Concern	Portion of segment west of US Hwy 281	30			
2002	Overall Nutrient Enrichment Concerns	No Concern	Upstream portion of segment	13			

Algal Growth Concern

2002	Chlorophyll a	Not Assessed	Portion of segment downstream of Gatesville	42	0		
2002	Chlorophyll a	Not Assessed	Portion of segment east of Hamilton	37	0		
2002	Chlorophyll a	Not Assessed	Portion of segment north of Gustine	14	0		
2002	Chlorophyll a	Not Assessed	Portion of segment upstream of Gatesville	37	5	0	
2002	Chlorophyll a	Concern	Portion of segment west of US Hwy 281	30	10	3	
2002	Chlorophyll a	Concern	Upstream portion of segment	13	13	4	

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Sediment Contaminants Concern

2002	Metals in sediment	Not Assessed	Upstream portion of segment	13	4	0	
2002	Overall Sediment Contaminant Concerns	Not Assessed	Portion of segment downstream of Gatesville	42			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Portion of segment east of Hamilton	37			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Portion of segment north of Gustine	14			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Portion of segment upstream of Gatesville	37			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Portion of segment west of US Hwy 281	30			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Upstream portion of segment	13			

Fish Tissue Contaminants Concern

2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Portion of segment downstream of Gatesville	42			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Portion of segment east of Hamilton	37			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Portion of segment north of Gustine	14			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Portion of segment upstream of Gatesville	37			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Portion of segment west of US Hwy 281	30			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Upstream portion of segment	13			

Public Water Supply Concern

2002	Finished Water: Chloride	No Concern	Portion of segment downstream of Gatesville	42			
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Public Water Supply Concern (continued)

2002	Finished Water: Chloride	No Concern	Portion of segment east of Hamilton	37			
2002	Finished Water: Chloride	No Concern	Portion of segment north of Gustine	14			
2002	Finished Water: Chloride	No Concern	Portion of segment upstream of Gatesville	37			
2002	Finished Water: Chloride	No Concern	Portion of segment west of US Hwy 281	30			
2002	Finished Water: Chloride	No Concern	Upstream portion of segment	13			
2002	Finished Water: Sulfate	No Concern	Portion of segment downstream of Gatesville	42			
2002	Finished Water: Sulfate	No Concern	Portion of segment east of Hamilton	37			
2002	Finished Water: Sulfate	No Concern	Portion of segment north of Gustine	14			
2002	Finished Water: Sulfate	No Concern	Portion of segment upstream of Gatesville	37			
2002	Finished Water: Sulfate	No Concern	Portion of segment west of US Hwy 281	30			
2002	Finished Water: Sulfate	No Concern	Upstream portion of segment	13			
2002	Finished Water: Total Dissolved Solids	No Concern	Portion of segment downstream of Gatesville	42			
2002	Finished Water: Total Dissolved Solids	No Concern	Portion of segment east of Hamilton	37			
2002	Finished Water: Total Dissolved Solids	No Concern	Portion of segment north of Gustine	14			
2002	Finished Water: Total Dissolved Solids	No Concern	Portion of segment upstream of Gatesville	37			
2002	Finished Water: Total Dissolved Solids	No Concern	Portion of segment west of US Hwy 281	30			
2002	Finished Water: Total Dissolved Solids	No Concern	Upstream portion of segment	13			
2002	Finished Water: MTBE	No Concern	Portion of segment downstream of Gatesville	42			
2002	Finished Water: MTBE	No Concern	Portion of segment east of Hamilton	37			
2002	Finished Water: MTBE	No Concern	Portion of segment north of Gustine	14			
2002	Finished Water: MTBE	No Concern	Portion of segment upstream of Gatesville	37			

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Public Water Supply Concern (continued)

2002	Finished Water: MTBE	No Concern	Portion of segment west of US Hwy 281	30			
2002	Finished Water: MTBE	No Concern	Upstream portion of segment	13			
2002	Finished Water: Perchlorate	Not Assessed	Portion of segment downstream of Gatesville	42			
2002	Finished Water: Perchlorate	Not Assessed	Portion of segment east of Hamilton	37			
2002	Finished Water: Perchlorate	Not Assessed	Portion of segment north of Gustine	14			
2002	Finished Water: Perchlorate	Not Assessed	Portion of segment upstream of Gatesville	37			
2002	Finished Water: Perchlorate	Not Assessed	Portion of segment west of US Hwy 281	30			
2002	Finished Water: Perchlorate	Not Assessed	Upstream portion of segment	13			
2002	Finished Water: Overall	No Concern	Portion of segment downstream of Gatesville	42			
2002	Finished Water: Overall	No Concern	Portion of segment east of Hamilton	37			
2002	Finished Water: Overall	No Concern	Portion of segment north of Gustine	14			
2002	Finished Water: Overall	No Concern	Portion of segment upstream of Gatesville	37			
2002	Finished Water: Overall	No Concern	Portion of segment west of US Hwy 281	30			
2002	Finished Water: Overall	No Concern	Upstream portion of segment	13			
2002	Surface Water: Chloride	No Concern	Portion of segment downstream of Gatesville	42	175		103.6
2002	Surface Water: Chloride	No Concern	Portion of segment east of Hamilton	37	175		103.6
2002	Surface Water: Chloride	No Concern	Portion of segment north of Gustine	14	175		103.6
2002	Surface Water: Chloride	No Concern	Portion of segment upstream of Gatesville	37	175		103.6
2002	Surface Water: Chloride	No Concern	Portion of segment west of US Hwy 281	30	175		103.6
2002	Surface Water: Chloride	No Concern	Upstream portion of segment	13	175		103.6
2002	Surface Water: Sulfate	No Concern	Portion of segment downstream of Gatesville	42	174		61.6
2002	Surface Water: Sulfate	No Concern	Portion of segment east of Hamilton	37	174		61.6
2002	Surface Water: Sulfate	No Concern	Portion of segment north of Gustine	14	174		61.6
2002	Surface Water: Sulfate	No Concern	Portion of segment upstream of Gatesville	37	174		61.6

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Public Water Supply Concern (continued)

2002	Surface Water: Sulfate	No Concern	Portion of segment west of US Hwy 281	30	174		61.6
2002	Surface Water: Sulfate	No Concern	Upstream portion of segment	13	174		61.6
2002	Surface Water: Total Dissolved Solids	No Concern	Portion of segment downstream of Gatesville	42	217		529.4
2002	Surface Water: Total Dissolved Solids	No Concern	Portion of segment east of Hamilton	37	217		529.4
2002	Surface Water: Total Dissolved Solids	No Concern	Portion of segment north of Gustine	14	217		529.4
2002	Surface Water: Total Dissolved Solids	No Concern	Portion of segment upstream of Gatesville	37	217		529.4
2002	Surface Water: Total Dissolved Solids	No Concern	Portion of segment west of US Hwy 281	30	217		529.4
2002	Surface Water: Total Dissolved Solids	No Concern	Upstream portion of segment	13	217		529.4
2002	Surface Water: Overall	No Concern	Portion of segment downstream of Gatesville	42			
2002	Surface Water: Overall	No Concern	Portion of segment east of Hamilton	37			
2002	Surface Water: Overall	No Concern	Portion of segment north of Gustine	14			
2002	Surface Water: Overall	No Concern	Portion of segment upstream of Gatesville	37			
2002	Surface Water: Overall	No Concern	Portion of segment west of US Hwy 281	30			
2002	Surface Water: Overall	No Concern	Upstream portion of segment	13			
2002	Overall Public Water Supply Concerns	No Concern	Portion of segment downstream of Gatesville	42			
2002	Overall Public Water Supply Concerns	No Concern	Portion of segment east of Hamilton	37			
2002	Overall Public Water Supply Concerns	No Concern	Portion of segment north of Gustine	14			
2002	Overall Public Water Supply Concerns	No Concern	Portion of segment upstream of Gatesville	37			

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Public Water Supply Concern (continued)

2002	Overall Public Water Supply Concerns	No Concern	Portion of segment west of US Hwy 281	30			
2002	Overall Public Water Supply Concerns	No Concern	Upstream portion of segment	13			

Narrative Criteria Concern

2002	Overall Narrative Criteria Concerns	No Concern	Portion of segment downstream of Gatesville	42			
2002	Overall Narrative Criteria Concerns	No Concern	Portion of segment east of Hamilton	37			
2002	Overall Narrative Criteria Concerns	No Concern	Portion of segment north of Gustine	14			
2002	Overall Narrative Criteria Concerns	No Concern	Portion of segment upstream of Gatesville	37			
2002	Overall Narrative Criteria Concerns	No Concern	Portion of segment west of US Hwy 281	30			
2002	Overall Narrative Criteria Concerns	No Concern	Upstream portion of segment	13			

Overall Secondary Concern

2002		No Concern	Portion of segment downstream of Gatesville	42			
2002		No Concern	Portion of segment east of Hamilton	37			
2002		No Concern	Portion of segment north of Gustine	14			
2002		No Concern	Portion of segment upstream of Gatesville	37			
2002		Concern	Portion of segment west of US Hwy 281	30			
2002		Concern	Upstream portion of segment	13			