

Segment ID: 0307

Water body name: Cooper Lake

Reservoir

Sulphur River Basin

Total size:

19,305 Acres

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	Lower 3000 acre Doctors Creek arm	3,000	14	1	
2002	Dissolved Oxygen grab average	No Concern	Lower 5000 acres near dam	5,000	14	1	
2002	Dissolved Oxygen grab average	Not Assessed	Middle 1000 acres near Finley Branch	1,000	6	1	
2002	Dissolved Oxygen grab average	No Concern	Middle 2000 acre Johns Creek arm	2,000	13	1	
2002	Dissolved Oxygen grab average	No Concern	Middle 5000 acres	5,000	14	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	14	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower 5000 acres near dam	5,000	14	0	
2002	Dissolved Oxygen grab minimum	No Concern-Limited Data	Middle 1000 acres near Finley Branch	1,000	6	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000	13	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Middle 5000 acres	5,000	14	0	
2004	Dissolved Oxygen 24hr average	No Concern-Limited Data	Lower 3000 acre Doctors Creek arm	3,000	7	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	Lower 5000 acres near dam	5,000	0		
2004	Dissolved Oxygen 24hr average	Use Concern-Limited Data	Middle 1000 acres near Finley Branch	1,000	8	1	
2002	Dissolved Oxygen 24hr average	Not Assessed	Middle 2000 acre Johns Creek arm	2,000	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Middle 5000 acres	5,000	0		
2004	Dissolved Oxygen 24hr minimum	No Concern-Limited Data	Lower 3000 acre Doctors Creek arm	3,000	7	0	
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Lower 5000 acres near dam	5,000	0		
2004	Dissolved Oxygen 24hr minimum	No Concern-Limited Data	Middle 1000 acres near Finley Branch	1,000	8	0	
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Middle 2000 acre Johns Creek arm	2,000	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Middle 5000 acres	5,000	0		
2002	Acute Metals in water	Not Assessed	Middle 1000 acres near Finley Branch	1,000	3		

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Aquatic Life Use (continued)

2002	Chronic Metals in water	Not Assessed	Middle 1000 acres near Finley Branch	1,000	3		
2004	Overall Aquatic Life Use	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Aquatic Life Use	Fully Supporting	Lower 5000 acres near dam	5,000			
2004	Overall Aquatic Life Use	Not Assessed	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Aquatic Life Use	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Aquatic Life Use	Fully Supporting	Middle 5000 acres	5,000			
2002	Overall Aquatic Life Use	Not Assessed	Remainder of segment	3,305			

Contact Recreation Use

2002	E. coli single sample	Not Assessed	Middle 1000 acres near Finley Branch	1,000	1	0	
2002	E. coli geometric mean	Not Assessed	Middle 1000 acres near Finley Branch	1,000	1		2
2002	Fecal coliform single sample	Not Assessed	Middle 1000 acres near Finley Branch	1,000	2	0	
2002	Fecal coliform geometric mean	Not Assessed	Middle 1000 acres near Finley Branch	1,000	2		1
2002	Overall Recreation Use	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Recreation Use	Not Assessed	Lower 5000 acres near dam	5,000			
2002	Overall Recreation Use	Not Assessed	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Recreation Use	Not Assessed	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Recreation Use	Not Assessed	Middle 5000 acres	5,000			
2002	Overall Recreation Use	Not Assessed	Remainder of segment	3,305			

General Use

2002	Water Temperature	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	14	0	
2002	Water Temperature	Fully Supporting	Lower 5000 acres near dam	5,000	14	0	
2002	Water Temperature	No Concern-Limited Data	Middle 1000 acres near Finley Branch	1,000	6	0	

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General Use (continued)

2002	Water Temperature	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000	13	0	
2002	Water Temperature	Fully Supporting	Middle 5000 acres	5,000	14	0	
2002	pH	Not Supporting	Lower 3000 acre Doctors Creek arm	3,000	14	6	
2002	pH	Partially Supporting	Lower 5000 acres near dam	5,000	14	4	
2002	pH	No Concern-Limited Data	Middle 1000 acres near Finley Branch	1,000	6	0	
2002	pH	Use Concern	Middle 2000 acre Johns Creek arm	2,000	13	2	
2002	pH	Partially Supporting	Middle 5000 acres	5,000	14	3	
2002	Chloride	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	271		18
2002	Chloride	Fully Supporting	Lower 5000 acres near dam	5,000	271		18
2002	Chloride	Fully Supporting	Middle 1000 acres near Finley Branch	1,000	271		18
2002	Chloride	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000	271		18
2002	Chloride	Fully Supporting	Middle 5000 acres	5,000	271		18
2002	Chloride	Fully Supporting	Remainder of segment	3,305	271		18
2002	Sulfate	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	270		38.2
2002	Sulfate	Fully Supporting	Lower 5000 acres near dam	5,000	270		38.2
2002	Sulfate	Fully Supporting	Middle 1000 acres near Finley Branch	1,000	270		38.2
2002	Sulfate	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000	270		38.2
2002	Sulfate	Fully Supporting	Middle 5000 acres	5,000	270		38.2
2002	Sulfate	Fully Supporting	Remainder of segment	3,305	270		38.2
2002	Total Dissolved Solids	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	67		143.5
2002	Total Dissolved Solids	Fully Supporting	Lower 5000 acres near dam	5,000	67		143.5
2002	Total Dissolved Solids	Fully Supporting	Middle 1000 acres near Finley Branch	1,000	67		143.5
2002	Total Dissolved Solids	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000	67		143.5
2002	Total Dissolved Solids	Fully Supporting	Middle 5000 acres	5,000	67		143.5

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General Use (continued)

2002	Total Dissolved Solids	Fully Supporting	Remainder of segment	3,305	67		143.5
2002	Overall General Use	Not Supporting	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall General Use	Partially Supporting	Lower 5000 acres near dam	5,000			
2002	Overall General Use	Fully Supporting	Middle 1000 acres near Finley Branch	1,000			
2002	Overall General Use	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall General Use	Partially Supporting	Middle 5000 acres	5,000			
2002	Overall General Use	Fully Supporting	Remainder of segment	3,305			

Fish Consumption Use

2002	Human Health Criteria	Not Assessed	Middle 1000 acres near Finley Branch	1,000	3		
2002	Overall Fish Consumption Use	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Fish Consumption Use	Not Assessed	Lower 5000 acres near dam	5,000			
2002	Overall Fish Consumption Use	Not Assessed	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Fish Consumption Use	Not Assessed	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Fish Consumption Use	Not Assessed	Middle 5000 acres	5,000			
2002	Overall Fish Consumption Use	Not Assessed	Remainder of segment	3,305			

Public Water Supply Use

2002	Finished Water: Running Avg	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: Running Avg	Fully Supporting	Lower 5000 acres near dam	5,000			
2002	Finished Water: Running Avg	Fully Supporting	Middle 1000 acres near Finley Branch	1,000			
2002	Finished Water: Running Avg	Fully Supporting	Middle 5000 acres	5,000			
2002	Surface Water: Long-term average	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	12		0.152
2002	Surface Water: Long-term average	Fully Supporting	Lower 5000 acres near dam	5,000	14		0.182

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Public Water Supply Use (continued)

2002	Surface Water: Long-term average	Not Assessed	Middle 1000 acres near Finley Branch	1,000	5		0.118
2002	Surface Water: Long-term average	Fully Supporting	Middle 5000 acres	5,000	14		0.174
2002	Surface Water: Running average	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000	12		
2002	Surface Water: Running average	Fully Supporting	Lower 5000 acres near dam	5,000	14		
2002	Surface Water: Running average	Not Assessed	Middle 1000 acres near Finley Branch	1,000	5		
2002	Surface Water: Running average	Fully Supporting	Middle 5000 acres	5,000	14		
2002	Overall Public Water Supply Use	Fully Supporting	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Public Water Supply Use	Fully Supporting	Lower 5000 acres near dam	5,000			
2002	Overall Public Water Supply Use	Fully Supporting	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Public Water Supply Use	Fully Supporting	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Public Water Supply Use	Fully Supporting	Middle 5000 acres	5,000			
2002	Overall Public Water Supply Use	Fully Supporting	Remainder of segment	3,305			

Overall Use Support

2004		Not Supporting	Lower 3000 acre Doctors Creek arm	3,000			
2002		Partially Supporting	Lower 5000 acres near dam	5,000			
2004		Fully Supporting	Middle 1000 acres near Finley Branch	1,000			
2002		Fully Supporting	Middle 2000 acre Johns Creek arm	2,000			
2002		Partially Supporting	Middle 5000 acres	5,000			
2002		Fully Supporting	Remainder of segment	3,305			

Nutrient Enrichment Concern

2002	Ammonia Nitrogen	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000	2		
2002	Ammonia Nitrogen	No Concern	Lower 5000 acres near dam	5,000	14	1	
2002	Ammonia Nitrogen	Not Assessed	Middle 1000 acres near Finley Branch	1,000	5	1	

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Nutrient Enrichment Concern (continued)

2002	Ammonia Nitrogen	No Concern	Middle 5000 acres	5,000	12	0	
2002	Nitrite + Nitrate Nitrogen	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000	2		
2002	Nitrite + Nitrate Nitrogen	No Concern	Lower 5000 acres near dam	5,000	14	3	
2002	Nitrite + Nitrate Nitrogen	Not Assessed	Middle 1000 acres near Finley Branch	1,000	5	0	
2002	Nitrite + Nitrate Nitrogen	No Concern	Middle 5000 acres	5,000	12	2	
2002	Orthophosphorus	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000	2		
2002	Orthophosphorus	No Concern	Lower 5000 acres near dam	5,000	14	0	
2002	Orthophosphorus	Not Assessed	Middle 1000 acres near Finley Branch	1,000	4	0	
2002	Orthophosphorus	No Concern	Middle 5000 acres	5,000	12	0	
2002	Total Phosphorus	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000	2		
2002	Total Phosphorus	Not Assessed	Lower 5000 acres near dam	5,000	0		
2002	Total Phosphorus	Not Assessed	Middle 1000 acres near Finley Branch	1,000	5	0	
2002	Total Phosphorus	Not Assessed	Middle 5000 acres	5,000	0		
2002	Overall Nutrient Enrichment Concerns	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Nutrient Enrichment Concerns	No Concern	Lower 5000 acres near dam	5,000			
2002	Overall Nutrient Enrichment Concerns	Not Assessed	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Nutrient Enrichment Concerns	Not Assessed	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Nutrient Enrichment Concerns	No Concern	Middle 5000 acres	5,000			
2002	Overall Nutrient Enrichment Concerns	Not Assessed	Remainder of segment	3,305			

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Algal Growth Concern

2002	Chlorophyll a	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000	2	0	
2002	Chlorophyll a	Not Assessed	Lower 5000 acres near dam	5,000	0		
2002	Chlorophyll a	Not Assessed	Middle 1000 acres near Finley Branch	1,000	5		
2002	Chlorophyll a	Not Assessed	Middle 2000 acre Johns Creek arm	2,000	0		
2002	Chlorophyll a	Not Assessed	Middle 5000 acres	5,000			
2002	Chlorophyll a	Not Assessed	Remainder of segment	3,305			

Sediment Contaminants Concern

2002	Metals in sediment	Not Assessed	Middle 1000 acres near Finley Branch	1,000	2		
2002	Overall Sediment Contaminant Concerns	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Lower 5000 acres near dam	5,000			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Middle 5000 acres	5,000			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Remainder of segment	3,305			

Fish Tissue Contaminants Concern

2002	Metals in fish tissue Arsenic	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	
2002	Metals in fish tissue Cadmium	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	
2002	Metals in fish tissue Chromium	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	
2002	Metals in fish tissue Copper	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	
2002	Metals in fish tissue Lead	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	

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Fish Tissue Contaminants Concern (continued)

2002	Metals in fish tissue Mercury	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	
2002	Metals in fish tissue Selenium	No Concern	Middle 1000 acres near Finley Branch	1,000	14	0	
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower 5000 acres near dam	5,000			
2002	Overall Fish Tissue Contaminant Concerns	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Middle 5000 acres	5,000			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Remainder of segment	3,305			

Public Water Supply Concern

2002	Finished Water: Chloride	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: Chloride	No Concern	Lower 5000 acres near dam	5,000			
2002	Finished Water: Chloride	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Finished Water: Chloride	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Finished Water: Chloride	No Concern	Middle 5000 acres	5,000			
2002	Finished Water: Chloride	No Concern	Remainder of segment	3,305			
2002	Finished Water: Sulfate	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: Sulfate	No Concern	Lower 5000 acres near dam	5,000			
2002	Finished Water: Sulfate	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Finished Water: Sulfate	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Finished Water: Sulfate	No Concern	Middle 5000 acres	5,000			
2002	Finished Water: Sulfate	No Concern	Remainder of segment	3,305			

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Public Water Supply Concern (continued)

2002	Finished Water: Total Dissolved Solids	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: Total Dissolved Solids	No Concern	Lower 5000 acres near dam	5,000			
2002	Finished Water: Total Dissolved Solids	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Finished Water: Total Dissolved Solids	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Finished Water: Total Dissolved Solids	No Concern	Middle 5000 acres	5,000			
2002	Finished Water: Total Dissolved Solids	No Concern	Remainder of segment	3,305			
2002	Finished Water: MTBE	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: MTBE	No Concern	Lower 5000 acres near dam	5,000			
2002	Finished Water: MTBE	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Finished Water: MTBE	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Finished Water: MTBE	No Concern	Middle 5000 acres	5,000			
2002	Finished Water: MTBE	No Concern	Remainder of segment	3,305			
2002	Finished Water: Perchlorate	Not Assessed	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: Perchlorate	Not Assessed	Lower 5000 acres near dam	5,000			
2002	Finished Water: Perchlorate	Not Assessed	Middle 1000 acres near Finley Branch	1,000			
2002	Finished Water: Perchlorate	Not Assessed	Middle 2000 acre Johns Creek arm	2,000			
2002	Finished Water: Perchlorate	Not Assessed	Middle 5000 acres	5,000			
2002	Finished Water: Perchlorate	Not Assessed	Remainder of segment	3,305			
2002	Finished Water: Overall	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Finished Water: Overall	No Concern	Lower 5000 acres near dam	5,000			
2002	Finished Water: Overall	No Concern	Middle 1000 acres near Finley Branch	1,000			

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Public Water Supply Concern (continued)

2002	Finished Water: Overall	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Finished Water: Overall	No Concern	Middle 5000 acres	5,000			
2002	Finished Water: Overall	No Concern	Remainder of segment	3,305			
2002	Surface Water: Chloride	No Concern	Lower 3000 acre Doctors Creek arm	3,000	271		18
2002	Surface Water: Chloride	No Concern	Lower 5000 acres near dam	5,000	271		18
2002	Surface Water: Chloride	No Concern	Middle 1000 acres near Finley Branch	1,000	271		18
2002	Surface Water: Chloride	No Concern	Middle 2000 acre Johns Creek arm	2,000	270		18
2002	Surface Water: Chloride	No Concern	Middle 5000 acres	5,000	271		18
2002	Surface Water: Chloride	No Concern	Remainder of segment	3,305	271		18
2002	Surface Water: Sulfate	No Concern	Lower 3000 acre Doctors Creek arm	3,000	270		38.2
2002	Surface Water: Sulfate	No Concern	Lower 5000 acres near dam	5,000	270		38.2
2002	Surface Water: Sulfate	No Concern	Middle 1000 acres near Finley Branch	1,000	270		38.2
2002	Surface Water: Sulfate	No Concern	Middle 2000 acre Johns Creek arm	2,000	271		38.2
2002	Surface Water: Sulfate	No Concern	Middle 5000 acres	5,000	270		38.2
2002	Surface Water: Sulfate	No Concern	Remainder of segment	3,305	270		38.2
2002	Surface Water: Total Dissolved Solids	No Concern	Lower 3000 acre Doctors Creek arm	3,000	67		143.5
2002	Surface Water: Total Dissolved Solids	No Concern	Lower 5000 acres near dam	5,000	67		143.5
2002	Surface Water: Total Dissolved Solids	No Concern	Middle 1000 acres near Finley Branch	1,000	67		143.5
2002	Surface Water: Total Dissolved Solids	No Concern	Middle 2000 acre Johns Creek arm	2,000	67		143.5
2002	Surface Water: Total Dissolved Solids	No Concern	Middle 5000 acres	5,000	67		143.5
2002	Surface Water: Total Dissolved Solids	No Concern	Remainder of segment	3,305	67		143.5

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Public Water Supply Concern (continued)

2002	Surface Water: Overall	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Surface Water: Overall	No Concern	Lower 5000 acres near dam	5,000			
2002	Surface Water: Overall	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Surface Water: Overall	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Surface Water: Overall	No Concern	Middle 5000 acres	5,000			
2002	Surface Water: Overall	No Concern	Remainder of segment	3,305			
2002	Overall Public Water Supply Concerns	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Public Water Supply Concerns	No Concern	Lower 5000 acres near dam	5,000			
2002	Overall Public Water Supply Concerns	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Public Water Supply Concerns	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Public Water Supply Concerns	No Concern	Middle 5000 acres	5,000			
2002	Overall Public Water Supply Concerns	No Concern	Remainder of segment	3,305			

Narrative Criteria Concern

2002	Overall Narrative Criteria Concerns	No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002	Overall Narrative Criteria Concerns	No Concern	Lower 5000 acres near dam	5,000			
2002	Overall Narrative Criteria Concerns	No Concern	Middle 1000 acres near Finley Branch	1,000			
2002	Overall Narrative Criteria Concerns	No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002	Overall Narrative Criteria Concerns	No Concern	Middle 5000 acres	5,000			

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Narrative Criteria Concern (continued)

2002	Overall Narrative Criteria Concerns	No Concern	Remainder of segment	3,305			
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Overall Secondary Concern

2002		No Concern	Lower 3000 acre Doctors Creek arm	3,000			
2002		No Concern	Lower 5000 acres near dam	5,000			
2002		No Concern	Middle 1000 acres near Finley Branch	1,000			
2002		No Concern	Middle 2000 acre Johns Creek arm	2,000			
2002		No Concern	Middle 5000 acres	5,000			
2002		No Concern	Remainder of segment	3,305			