

Priority Area Number: 16		Priority Area Name: St. Anthony		
Ranking Criteria			Score	Comments
1) POPULATION				
	Points	Select One		
a) Within Degraded Area				
<1000	1			
1000 to 10,000	2	X	2	Population = 2000
10,000 to 100,000	3			
		Subtotal	2	
b) Source Water Protection Areas or Public Water System wells in Priority Area				
0	0	X	0	0 PWS
1 to 20	1			
>20	2			
		Subtotal	0	
c) Number of Wells with Nitrate (NO₃) ≥10 mg/l				
0	0			
1 to 2	1			
3 to 5	2	X	2	4 Wells
6 to 9	3			
10 to 15	4			
>15	5			
		Subtotal	2	
		Population Score	4	
		Max Possible Score = 10		
2) WATER QUALITY				
	% wells	Nitrate Concentration Criteria		
Percent of wells with Nitrate (NO ₃) ≥2 mg/l	43%	2	0.86	
Percent of wells with Nitrate (NO ₃) ≥5 mg/l	36%	5	1.80	
Percent of wells with Nitrate (NO ₃) ≥10 mg/l	29%	10	2.90	
		Water Quality Total	5.56	
3) WATER QUALITY TRENDS				
		Select One		
Increasing	10			
No Discernable Trend	5	X	5	
Decreasing trend	0			
		Trend Score	5	
		Max Possible Score = 10		
4) OTHER BENEFICIAL USES				
Other beneficial uses are impaired	2	Yes=2 No = 0	No	
		Beneficial use score	0	
		Max Possible Score = 2		
		Total Score	14.56	

**NITRATE PRIORITY AREA # 16
ST. ANTHONY**

Nitrate Concentrations: (mg/l)

Minimum Value	0.9
Maximum Value	31.9
Average Value	7.6
No. Samples \geq 10	4
No. Samples 5 – 9.99	1
No. Samples 2 – 4.99	1
No. Samples < 2	8
No. Samples \geq 2	6
No. Samples \geq 5	4
No. Samples \geq 10	4
% Samples \geq 2	43%
% Samples \geq 5	36%
% Samples \geq 10	29%
Total Samples	14
No. PWS Samples	0
No. SMN Samples	11
No. IDAG Samples	3
No. REG/LOC Samples	0

PWS = Public Water Systems

SMN = State Wide Monitoring Network

IDAG = Idaho Dept. of Agriculture Studies

REG/LOC = Regional/Local Monitoring DEQ and DEQ/IDAG Projects

1999 - 2000 GROUP 1 NITRATE PRIORITIZATION ST. ANTHONY AREA 16* (RANKED)

POPULATION (Est.) = 2000
 AREA (Est.) = 6725 Acres
 LAND USE = Predominantly Irrigated Agriculture,
 Minor Amount of Range Land

Analytical Results for Nitrate Data Sources:
 State Wide Monitoring Network (USGS/DWR) 11 sites, most recent analysis used
 IDAG studies, 3 sites, most recent analysis used

Nitrate Values (mg/l)	Number of Sites
>=10	4
5 - 9.99	1
2 - 4.99	1
< 2	8

MAXIMUM VALUE = 31.9
 MINIMUM VALUE = 0.9
 MEDIAN = 1.7
 AVERAGE = 7.6
 MODE = 1.4

TOTAL NUMBER OF SAMPLING SITES = 14
 TOTAL NUMBER OF PWS SITES = 0

No. Sites Nitrate >= 2 mg/l = 6
 No. Sites Nitrate >= 5 mg/l = 5
 No. Sites Nitrate >= 10 mg/l = 4



*Previously referred to as Area 24 for trend analysis

Nitrate Analytical Results - Statewide, USGS, IDAG

- ▲ >= 10 mg/l
- 5 - 9.99 mg/l
- 2 - 4.99 mg/l
- <2 mg/l

□ Nitrate Priority Area 16
St. Anthony

USGS = United States Geological Survey
 DWR = Idaho Department of Water Resources
 IDAG = Idaho Department of Agriculture
 PWS = Public Water System
 mg/l = milligrams per liter

