

Aquatic Veterinary Services  
Water Quality Conundrums  
March 17, 2020

**Problem 1: 50-gallon goldfish tank**

Parameter	Value
Ammonia	3 mg/L
Nitrite	0 mg/L
Nitrate	0 mg/L
pH	4.5
kH	0 mg/L
Temperature	70 F

What are your main concerns with these results:

Is there a name for this syndrome? If yes, what is that name:

How should you attempt to fix it?

**Problem 2: 2,000-gallon koi pond**

Parameter	Value
Ammonia	1.5 mg/L
Nitrite	0 mg/L
Nitrate	0 mg/L
pH	7.5
kH	200 mg/L
Temperature	70 F

What are your main concerns with these results:

Is there a name for this syndrome? If yes, what is that name:

How should you attempt to fix it?

### Problem 3: 10-gallon betta tank

Parameter	Value
Ammonia	0.5 mg/L
Nitrite	0 mg/L
Nitrate	5 mg/L
pH	8.0
kH	200 mg/L
Temperature	70 F

What are your main concerns with these results:

Is there a name for this syndrome? If yes, what is that name:

How should you attempt to fix it?

### Problem 4: 500-gallon koi pond

Parameter	Value
Ammonia	0.5 mg/L
Nitrite	0.1 mg/L
Nitrate	80 mg/L
pH	7.5
kH	200 mg/L
Temperature	74 F

What are your main concerns with these results:

Is there a name for this syndrome? If yes, what is that name:

How should you attempt to fix it?

**Problem 5: 1-gallon betta bowl**

<b>Parameter</b>	<b>Value</b>
Ammonia	0.75 mg/L
Nitrite	0 mg/L
Nitrate	0 mg/L
pH	6.5
kH	10 mg/L
Temperature	74 F

What are your main concerns with these results:

Is there a name for this syndrome? If yes, what is that name:

How should you attempt to fix it?