

Lunker Lake

Lunker Lake in Anywhere, USA, is known for being an excellent fishing lake, and Payton has spent many hours fishing on this lake. It’s one of her favorite things to do, so she wants to check the health of the lake to make sure it continues to be a great destination for fishing. She is expecting that the levels of nitrates and phosphates will not be an issue because the fish seem to be reproducing well. **Results:** The nitrate level was 3.48 mg/L and the phosphate level is .15 mg/L.

Standard	Nitrates (mg/L)	Phosphates (mg/L)
Excellent	<1.32	<.10
Good	1.76 to 3.52	.11 to .16
Fair	3.96 to 8.36	.17 to .58
Poor	> 8.8	.59 to 2.99
Very Poor		>3.0

Should Payton be concerned? Why or why not? Use reasoning and evidence from the chart above to support your claim.

What questions might Payton have after collecting this data?

1.
2.
3.