

**Objectives and Test Questions for the Presentation by Mick M. on
“Performance Standards and Monitoring Protocols for Ohio Compensatory Mitigation Wetlands”**

Objective #1 – Understand how a condition-based approach to assessing functional replacement can be developed and used.

Objective #2 – Learn how to utilize multi-metric biological indices and hydrological and biogeochemical indicators to measure condition.

Objective #3 – Understand how a rapid assessment methodology can be used to measure functional capacity.

Five test questions

1. Which of the categories below are required for Ohio wetland mitigation bank performance standards? (select all that apply)
 - A. Wetland area.
 - B. Water quality.
 - C. Ecological condition.
 - D. Relative cover of native perennial hydrophytes.
 - E. Relative cover of invasive plant species.

Answer: A, C, D and E

2. How do you ensure adequate replacement of functions occur? (select all the apply)
 - A. Ensure that the site is protected by a long-term easement agreement.
 - B. Ensure replacement is based on the appropriate mitigation ratios.
 - C. Ensure replacement includes the same wetland type.
 - D. Ensure performance standards meet equal or higher levels of ecological condition.
 - E. Ensure monitoring is conducted using quantitative condition-based wetland assessment tools.

Answer: B, C, D and E

3. In Ohio, in order to provide forested habitat with an adequate diversity of species, the following planting guidelines must be followed: (select all that apply)
 - A. A minimum of 200 native, free standing live and healthy (disease and pest free) trees per acre.
 - B. A minimum of 200 native, free standing live and healthy (disease and pest free) shrubs/sub-canopy tree species per acre.
 - C. A minimum of 8 native tree species are planted within the forested areas, and each of these 8 species represents at least 5% of the overall tree count.
 - D. A minimum of 8 native shrub/sub-canopy species are planted within the forested areas, and each of these 8 species represents at least 5% of the overall shrub/subcanopy tree count.

- E. A minimum of 25% of all live trees planted consist of at least 4 species having coefficient of conservatism values from 5 to 10.

Answer: *All of the above*

- 4. Which of the following are included in Ohio's rehabilitation performance standards? (select all that apply)
 - A. Must meet VIBI scores equivalent to or higher than the threshold for wetland habitat.
 - B. Must increase VIBI score 10 points from baseline score.
 - C. Less than 5% relative cover of invasive species.
 - D. Greater than 75% relative cover of native perennial hydrophytes.
 - E. Less than 10% turbidity due to erosion.

Answer: *A, B, C and D*

- 5. What are some beneficial outcomes of quantitative wetland performance standards? (select all that apply)
 - A. Based on conditions specific to Ohio's wetlands.
 - B. Expectations are clear and measurable from the beginning.
 - C. No debate as to whether or not a performance standard has been met.
 - D. Puts appropriate weight on the permittee or sponsor to develop high quality wetlands to compensate for losses.
 - E. High performing mitigation projects can receive advanced credit releases in Ohio if they outperform or meet required standards sooner than the 10-year standard time frame.

Answer: *All of the above.*