



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION



Office of Water Programs

Water Quality Standard for Manganese and Implementation

Tom Wolf, Governor

Patrick McDonnell, Secretary

Proposed Regulation for Manganese

Proposed updates to Chapter 93:

- Delete PWS criterion of 1.0 mg/L from §93.7, Table 3
- Add Human Health criterion of 0.3 mg/L to §93.8c, Table 5

Proposed update to Chapter 96:

- **First Alternative Point of Compliance** – Movement of the point of compliance from §96.3(c) to the exceptions listed in §96.3(d), consistent with Act 40.
- **Second Alternative Point of Compliance** – Maintenance of the existing point of compliance in §96.3(c), consistent with the PA Clean Streams Law and other statutory obligations.

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Information Requested:

1. Industry knowledge of, or experience with, new or emerging wastewater treatment technology.
2. Information related to the use of new or emerging treatment technologies in PA, including data on capital and O&M costs, construction or operational challenges, and benefits of new technologies vs. conventional treatment.
3. Number of mining facilities in PA currently operating manganese removal treatment systems.
4. Number of facilities that would need systems to achieve an instream water quality criterion of 0.3 mg/L.
5. Information on the ability of existing treatment systems to achieve an instream limit of 0.3 mg/L.

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Information Requested:

6. Information on the manganese levels found in active wastewater discharges associated with mining facilities across PA.
7. Common challenges encountered, beyond the cost of treatment, that limit the use of various manganese removal technologies and treatment techniques.

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For more information or questions, contact:

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