

Procedures to Implement the Texas Surface Water Quality Standards

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What are “Implementation Procedures (IPs)”

Procedures to Implement the Texas Surface Water Quality Standards (IPs) RG-194

A guidance document that explains how TCEQ applies the Texas Surface Water Quality Standards

Main Topics Covered in IPs

- **Determining Water Quality Uses and Criteria**
- **Evaluating Impacts to Water Quality**
- **Antidegradation**
- **Mixing Zones and Critical Conditions**
- **Dissolved Oxygen Modeling**

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Main Topics Covered in IPs (cont.)

- **Biomonitoring (WET)**
- **Toxic Pollutants**
- **TDS Screening Procedures**
- **Stormwater Permits**
- **Variance and Site-Specific Standard**
- **Appendices**
- **Other**

Determining Water Quality Uses and Criteria

- ▶ **Classified Waters**
- ▶ **Unclassified Water**
- ▶ **Presumed Aquatic
Life Uses**

Evaluating Impacts on Water Quality

- ▶ **Endangered and Threatened Species**
- ▶ **Edwards Aquifer**
- ▶ **Bacteria**
- ▶ **Nutrient Screening**

Antidegradation

- ▶ **Tier 1**
- ▶ **Tier 2**
- ▶ **Watershed Protection Rules**

Mixing Zones and Critical Conditions

- ▶ **MZ and ZIDs**
- ▶ **Critical Conditions**
- ▶ **Determining 7Q2 and HM**
- ▶ **Human Health**
- ▶ **Diffusers**

Dissolved Oxygen Modeling

- ▶ **Model Selection and Inputs**
- ▶ **Screening Level Methods**
- ▶ **Critical Low Flow Values for East and South Texas Streams**
- ▶ **DO Impairments**

Biomonitoring (WET)

- ▶ **Chronic and 48 Hour Acute Tests**
- ▶ **24 Hour Acute**
- ▶ **Test Substitution**
- ▶ **Toxicity Attributable to TDS**
- ▶ **Ammonia Toxicity**

TDS Screening Procedures

- ▶ **Flow Status**
- ▶ **Determining Site-Specific Ambient TDS Values**
- ▶ **Establishing TDS Permit Limits**
- ▶ **Final Evaluation and Considerations**

Stormwater Permits

- ▶ **Site-Specific Conditions**
- ▶ **Antidegradation Review of Stormwater Permit**
- ▶ **Discharges to Impaired Waters**
- ▶ **Discharges to Edwards Aquifer Recharge Zone**
- ▶ **Watershed Rules**

Site-Specific Standards and Variances

- ▶ **Interim Permit with Variance**
- ▶ **Variance Extension**
- ▶ **Site-Specific Standards**
- ▶ **EPA Coordination**
- ▶ **Standards Revision**

Appendices

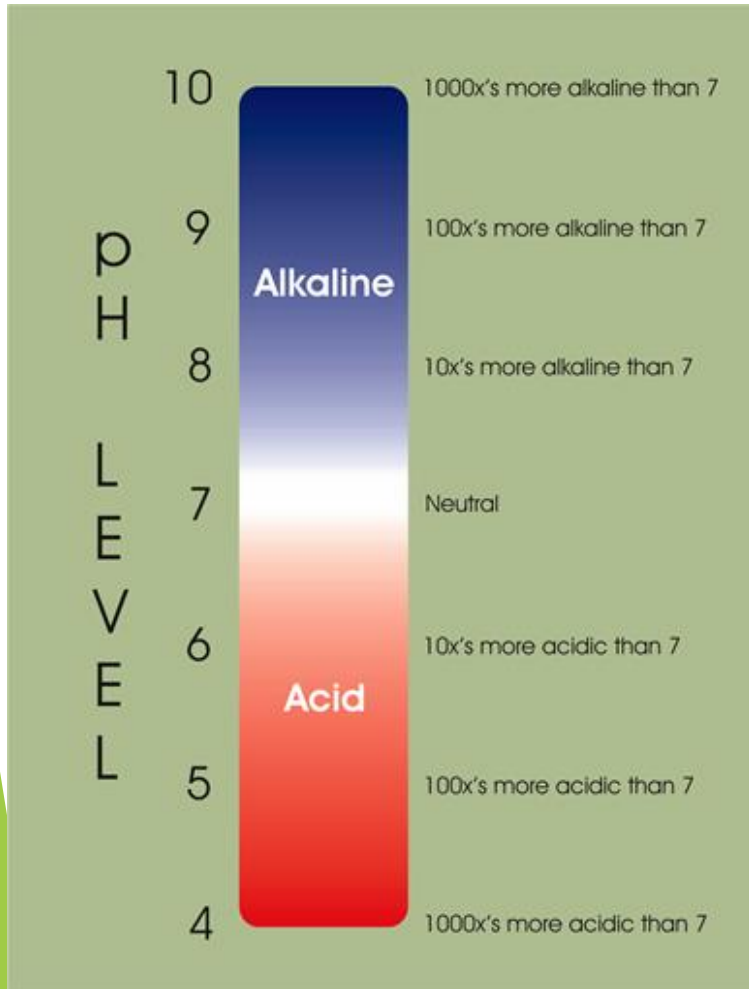
- ▶ **Playa Lake Policy**
- ▶ **Endangered and Threatened Species**
- ▶ **Critical Low-Flow Values**
- ▶ **Segment-Specific Water Quality Values**
TSS, pH, Hardness, TDS
- ▶ **MALs- to be removed from IPs**
- ▶ **Nutrient Screening Parameters-Reservoirs**

Thermal Discharges



- Temperature screening stakeholder group started in August 2014
- TCEQ has received comments and is working on detailed procedures for inclusion in the IPs
- Draft procedures presented to stakeholders in summer 2017
- Comments received and being considered

pH Screening Procedures



- Screening procedure established with EPA concurrence for certain direct discharges to classified segments
- pH Screening conducted:
 - major municipal facilities (≥ 1 MGD flow)
 - industrial discharges with process wastewater

IP Revision process

- **Triennial review process**
- **Two revisions**
 - “Streamlined” mini revision
 - Regular revision



IP Revisions

- ▶ **Reasonable Potential for WET Testing - Mini**
- ▶ **Dechlorination- Mini**
- ▶ **Thermal Discharges- Regular**
- ▶ **7Q2 and HM segment flow data- Regular**
- ▶ **Ambient segment WQ data-Regular**
- ▶ **316(b) rule implementation-Regular**
- ▶ **Endangered species- Regular**
- ▶ **MALs/Methods Update Rule-Mini**
- ▶ **pH screening procedures-Mini**
- ▶ **Correcting errors/ommissions in current IPs**



Any
Questions
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