

Surface Water Source and Intake Construction Checklist

Texas Commission on Environmental Quality
Water Supply Division
Plan Review Team MC-159
P.O. Box 13 087, Austin, Texas 78711-3087

Public Water System I.D. No. _____
TCEQ Log No. P- _____

The following list is a brief outline of the "Rules for Public Water Systems," 30 TAC Chapter 290 regarding proposed surface water source and intake construction. Engineering report, sealed plans, and specifications meeting, but not limited to, the minimum requirements cited here shall be prepared under the supervision of a Texas licensed professional engineer and submitted to TCEQ for approval. This list is not a substitute for the rules and this checklist cannot be accepted in lieu of the required engineering submittals. Failure to submit the following items may delay project approval. Copies of the rules may be obtained from Texas Register, 1019 Brazos St, Austin, TX, 78701-2413, Phone: (512) 463-5561 or downloaded from the website: <http://www.tceq.texas.gov/rules/indxpdf.html>

1. Engineering report addressing all applicable requirements in §290.41(e)(1)(A) to (G)
2. Intakes shall be located and constructed in a manner which will secure raw water of the best quality available from the source. [§290.41(e)(2)]
3. Intakes shall not be located in areas subject to excessive siltation or in areas subject to receiving immediate runoff from wooded sloughs or swamps. [§290.41(e)(2)(A)]
4. Raw water intakes shall not be located within 1,000 feet of boat launching ramps, marinas, docks, or floating fishing piers which are accessible by the public. [§290.41(e)(2)(B)]
5. A restricted zone of 200 feet radius from the raw water intake works shall be established and all recreational activities and trespassing shall be prohibited in this area. [§290.41(e)(2)(C)]
6. Commission staff shall make an on-site evaluation of any proposed raw water intake location. The evaluation must be requested prior to final design and must be supported by preliminary design drawings (please coordinate with both the central TCEQ office and the regional TCEQ office for your system before your plan submittal). Once the final intake location has been selected, the executive director shall be furnished with an original or legible copy of a United States Geological Survey 7.5-minute topographic quadrangle showing the accurate intake location. [§290.41(e)(2)(D)]
7. Intakes shall be located and constructed in a manner which will allow raw water to be taken from a variety of depths and which will permit withdrawal of water when reservoir levels are very low. Fixed level intakes are acceptable if water quality data is available to establish that the effect on raw water quality will be minimal. [§290.41(e)(2)(E)]
8. Water intake works shall be provided with screens or grates to minimize the amount of debris entering the plant. [§290.41(e)(2)(F)]
9. Intakes shall not be located within 500 feet of a sewage treatment plant or lands irrigated with sewage effluent. [§290.41(e)(2)(G)]
10. The raw water pump station shall be located in a well-drained area and shall be designed to remain in operation during flood events. [§290.41(e)(3)]
11. An all-weather road shall be provided to the raw water pump station. [§290.41(e)(4)]
12. The raw water pump station and all appurtenances must be installed in a lockable building that is designed to prevent intruder access or enclosed by an intruder-resistant fence with lockable gates. [§290.41(e)(5)]