

30 TEXAS ADMINISTRATIVE CODE CHAPTER 210, SUBCHAPTER E



2018 ENVIRONMENTAL TRADE FAIR

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WHAT IS INDUSTRIAL RECLAIMED WATER?

NON-DOMESTIC WASTEWATER RE-USED FOR A BENEFICIAL PURPOSE





WHY RE-USE INDUSTRIAL WASTEWATER?

CONSERVES RAW OR POTABLE WATER RESOURCES.







WHERE ARE THE REQUIREMENTS FOR REUSE OF INDUSTRIAL RECLAIMED WATER?

• 30 Texas Administrative Code Chapter 210, Subchapter E OR '210E' FOR SHORT.

Texas Administrative Code

TITLE 30 ENVIRONMENTAL QUALITY

PART 1 TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CHAPTER 210 USE OF RECLAIMED WATER

Subchapters

SUBCHAPTER A GENERAL PROVISIONS

SUBCHAPTER B GENERAL REQUIREMENTS FOR THE PRODUCTION, CONVEYANCE, AND USE OF RECLAIMED WATER

SUBCHAPTER C QUALITY CRITERIA AND SPECIFIC USES FOR RECLAIMED WATER

 $\underline{\text{SUBCHAPTER D}} \ \ \underline{\text{ALTERNATIVE AND PRE-EXISTING RECLAIMED WATER SYSTEMS}}$

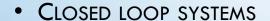
SUBCHAPTER E SPECIAL REQUIREMENTS FOR USE OF INDUSTRIAL RECLAIMED WATER

SUBCHAPTER F USE OF GRAYWATER SYSTEMS



A 210E AUTHORIZATION IS NOT NEEDED FOR:







Use of industrial wastewater as makeup water within a facility



THE FOLLOWING WASTES ARE NOT ELIGIBLE FOR A REUSE AUTHORIZATION UNDER 210E:

- Wastewater containing:
 - O RADIOACTIVE MATERIALS
 - O DIOXINS OR FURANS
 - o PESTICIDES



Wastewater classified as, or which is, hazardous as defined by 40
 Code of Federal Regulations (CFR) Part 261



ADDITIONAL WASTES NOT ELIGIBLE FOR REUSE UNDER 210E:

- SEPTIC TANK, CHEMICAL TOILET, GRIT OR GREASE TRAP WASTE
- BARGE CLEANING OR AIR SCRUBBER WASTEWATER
- ANY WASTEWATER ELIGIBLE FOR COVERAGE UNDER:
 - O PERMIT BY RULE (30 TAC CHAPTER 321), OR
 - O EVAPORATION POND GENERAL PERMIT.





ADDITIONAL WASTES NOT ELIGIBLE FOR REUSE UNDER 210E CONT.:

- PROCESS WASTEWATER REGULATED UNDER 40 CFR PARTS 400-471 (WITH SOME EXCEPTIONS)
- REMEDIATED OR CONTAMINATED GROUNDWATER GENERATED BY FACILITIES
 WHOSE PROCESS WASTEWATER IS PROHIBITED FOR AUTHORIZATION UNDER
 210E



FEATURES OF A 210E AUTHORIZATION:

- AUTHORIZES REUSE OF INDUSTRIAL WASTEWATER FOR BENEFICIAL LAND
 APPLICATION DOES NOT AUTHORIZE DISCHARGE
- ISSUED TO THE PRODUCER OF THE WASTEWATER TO BE REUSED.
- DOES NOT REQUIRE THE PRODUCER TO HAVE A TPDES OR TLAP PERMIT
- Does not expire / No need to renew
- TWO LEVELS OF COVERAGE AVAILABLE



LEVEL I COVERAGE IS AVAILABLE UNDER FOUR CONDITIONS:

- Wastewater is one of the specific types listed at § 210.53(a)(1)-(9)
- Wastewater is reused on-site
- REUSE IS FOR ONE OF THE SPECIFIC END USES LISTED IN § 210.56(b)(2)
- PRODUCER HAS AN AUTHORIZED PRIMARY DISPOSAL METHOD



LEVEL I COVERAGE - WASTEWATER TYPES:

- CONDENSATE AIR CONDITIONER, COMPRESSOR, STEAM, OR OTHER CONDENSATE THAT
 FORMS ON STEAM LINES AND IS NOT CONSIDERED A PROCESS WASTEWATER.
- WASHWATER FROM WHOLE FRUIT OR VEGETABLE WASHING.
- COOLING WATER NON-CONTACT OR ONCE-THROUGH COOLING WATER
- FILTER BACKWASH FROM WATER TREATMENT PROCESSES (NOT RO REJECT)
- Washwater from routine washing of buildings conducted without the use of detergents or other chemicals



LEVEL I COVERAGE — WASTEWATER TYPES CONT.:

- WASHWATER FROM ROUTING WASHING OF PAVEMENT
 - O CONDUCTED WITHOUT THE USE OF DETERGENTS OR OTHER CHEMICALS.
 - O WHERE SPILLS OR LEAKS OF TOXIC OR HAZARDOUS WASTE HAVE NOT OCCURRED (UNLESS SPILLED MATERIAL HAS BEEN REMOVED)
- COOLING TOWER BLOWDOWN WITH A TOTAL DISSOLVED SOLIDS (TDS) CONCENTRATION OF LESS THAN $2,000\ mg/L$
- OTHER INDUSTRIAL WASTEWATER
 - O WITH MEASURED EFFLUENT CONCENTRATIONS AT OR BELOW THRESHOLDS LISTED IN TABLE 1 OF 210E
 - O THAT IS NOT A WASTE SOURCE PROHIBITED BY 210E



THRESHOLD LEVELS (§ 210.53, TABLE 1)

Parameter	Threshold (mg/l)	MAL (mg/l)	Parameter	Threshold (mg/l)	MAL (mg/l)
Conventionals & Nonconventionals			Metals		
Total Organic Carbon	55		Copper, total	0.030	0.010
Oil and Grease	10		Lead, total	0.015	0.005
Total Dissolved Solids	2000		Manganese	0.05	
Nitrate Nitrogen	10		Mercury, total	0.0002	0.0002
Metals			Nickel, total	0.030	0.010
Antimony, total	0.09	0.03	Selenium, total	0.030	0.010
Arsenic, total	0.030	0.010	Silver, total	0.006	0.002
Barium, total	0.030	0.010	Thallium, total	0.030	0.010
Beryllium, total	0.015	0.005	Zinc, total	0.015	0.005
Cadmium, total	0.003	0.001	Cyanide, free	0.200	



LEVEL I COVERAGE - LOCATION OF REUSE

- Wastewater must be reused on-site, which means within the boundaries of:
 - O THE INDUSTRIAL FACILITY, OR
 - O PROPERTY THAT IS CONTIGUOUS TO THE FACILITY AND THAT IS OWNED OR OPERATED BY THE PRODUCER OF THE INDUSTRIAL RECLAIMED WATER.



LEVEL | COVERAGE - END USES

- IRRIGATION
 - O LANDSCAPING
 - O NON-FOOD CROPS
 - O PASTURES OF MILKING ANIMALS
- FIRE PROTECTION
- Dust suppression and soil compaction
- Maintenance of impoundments





LEVEL I COVERAGE — PRIMARY DISPOSAL METHODS

- DISPOSAL UNDER ANY TPDES OR TLAP PERMIT
- AUTHORITY TO ROUTE WASTEWATER TO A PUBLICLY OWNED TREATMENT WORKS (POTW), EITHER BY
 - O DISCHARGE TO THE SANITARY SEWER SYSTEM, OR
 - O USE OF A SUITABLE HAULER
- ABILITY TO RECYCLE IN A MANNER THAT DOES NOT DISCHARGE INTO OR ADJACENT TO WATER IN THE STATE



LEVEL I COVERAGE DOES NOT REQUIRE:

- NOTIFYING THE TCEQ
- SUBMITTING AN APPLICATION
- FEES
- APPROVAL FROM THE TCEQ





LEVEL II COVERAGE IS NEEDED IF ANY OF THE FOLLOWING ARE TRUE:

- INDUSTRIAL RECLAIMED WATER IS NOT ONE OF THE SPECIFIED WASTES ELIGIBLE
 FOR LEVEL I COVERAGE
- INDUSTRIAL RECLAIMED WATER CONTAINS POLLUTANT CONCENTRATIONS THAT EXCEED ANY OF THE TABLE 1 THRESHOLDS
- REUSE WILL BE OFF-SITE
- RECLAIMED WATER CONTAINS ANY AMOUNT OF DOMESTIC WASTEWATER



LEVEL II COVERAGE REQUIRES THE **PRODUCER**TO:

- Have a primary disposal method
- SUBMIT AN APPLICATION TO THE TCEQ USING FORM 20094 USUALLY PROCESSED WITHIN 60 DAYS OF RECEIPT
- PAY A \$100 FEE (BUT NO ONGOING OR OTHER FEES)
- RECEIVE WRITTEN AUTHORIZATION FROM THE TCEQ PRIOR TO REUSING THE INDUSTRIAL WASTEWATER.



LEVEL II COVERAGE REQUIRES THE **PRODUCER** TO (CONT.):

- SAMPLE AND MEET EFFLUENT LIMITATIONS FOR
 - O TOTAL ORGANIC CARBON 55 mg/L (1/MONTH)
 - O PH -6.0-9.0 STANDARD UNITS (1/WEEK)
 - O OTHER POLLUTANTS AS NEEDED
- Use primary disposal method if any test results exceed permit limitations
- MAINTAIN RECORDS OF
 - O ALL NOTIFICATIONS MADE TO THE TCEQ UNDER 210E
 - O ALL MONITORING ACTIVITIES
- CONDUCT ANNUAL TESTING OF RECLAIMED WATER
 - O UNLESS REUSING ONLY LEVEL I WASTE STREAMS OFF-SITE





LEVEL II COVERAGE REQUIRES THE USER TO:

MAINTAIN AN OPERATING LOG THAT RECORDS LAND APPLICATION ACTIVITIES





OTHER REQUIREMENTS IN CHAPTER 210 MAY APPLY

- IF THE END USE IS IRRIGATION SEE SUBCHAPTER B
- IF ANY TYPE OF IMPOUNDMENT IS USED TO STORE RECLAIMED WATER SEE SUBCHAPTER B
- IF REUSE IS OFF-SITE SEE SUBCHAPTERS A & B
- IF ANY AMOUNT OF DOMESTIC WASTEWATER IS COMMINGLED WITH THE INDUSTRIAL RECLAIMED WATER SEE SUBCHAPTERS A, B, & C



WHAT ABOUT GREYWATER?

REUSE OF GREYWATER IS SUBJECT TO THE REQUIREMENTS OF 30 TAC
 CHAPTER 210, SUBCHAPTER F









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