



# RENEWAL OF FDEP FACILITY PERMITS:

## THE PRETREATMENT PERSPECTIVE

Florida Industrial Pretreatment Association

April 30, 2010





# PRETREATMENT QUESTION

Which Categorical Industry is  
Represented by this Slide  
Design??



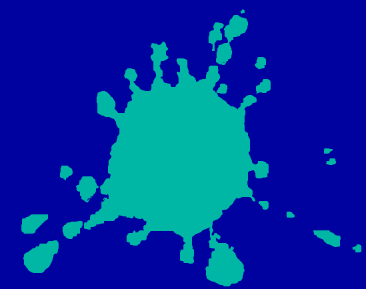


# HOLISTIC APPROACH





# OVERVIEW

- ◆ Regulations
  - ◆ Sources of Information
  - ◆ Permit Renewal Components
  - ◆ Capacity Analysis Report
  - ◆ O & M Performance Report
  - ◆ Pretreatment
- 



# DELEGATION

U.S.E.P.A. DELEGATED SPECIFIC  
RESPONSIBILITIES TO FDEP

MAY 1995





# SOURCE OF REGULATIONS

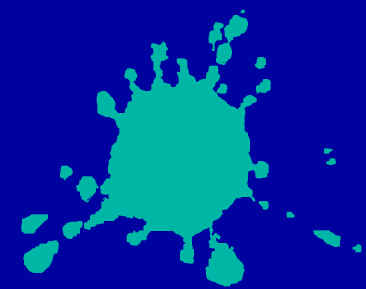
◆ LEGAL AUTHORITY:  
FLORIDA STATUTES

◆ CITATION:  
FLORIDA ADMINISTRATIVE CODE



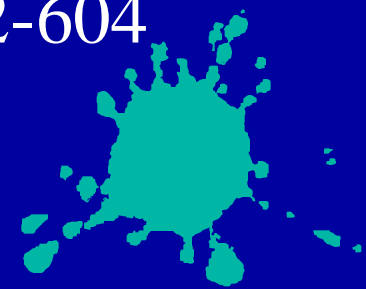


# PRIMARY REGULATIONS

- ◆ PERMITS: 62-4
  - ◆ QUALITY ASSURANCE: 62-160
  - ◆ SURFACE WATER QUALITY STANDARDS: 62-302
  - ◆ GROUND WATER CLASSES AND STANDARDS: 62-520
  - ◆ GROUNDWATER PERMITTING AND MONITORING: 62-522
- 




# REGULATIONS (CONT.)


- ◆ DOMESTIC WASTEWATER FACILITIES: 62-600
  - ◆ DOMESTIC WASTEWATER FACILITY MONITORING: 62-601
  - ◆ DOMESTIC WASTEWATER FACILITY OPERATORS: 62-602
  - ◆ COLLECTION SYSTEM AND TRANSMISSION FACILITIES: 62-604
- 



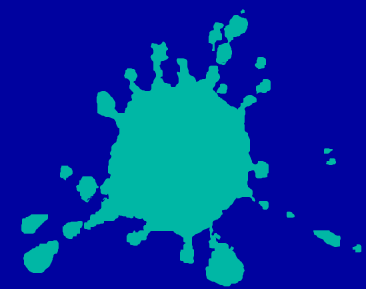


# REGULATIONS (CONT.)

- ◆ REUSE AND LAND APPLICATION: 62-610
  - ◆ WETLANDS: 62-611
  - ◆ DOMESTIC WASTEWATER FACILITY PERMITTING: 62-620
  - ◆ PRETREATMENT: 62-625 and 40 CFR 403-467
  - ◆ RESIDUALS: 62-640 and 40 CFR 503
  - ◆ WASTEWATER FACILITY CLASSIFICATION AND STAFFING: 62-699
- 



YOU ARE RESPONSIBLE  
FOR GENERAL  
KNOWLEDGE OF ALL  
RULES & REGULATIONS

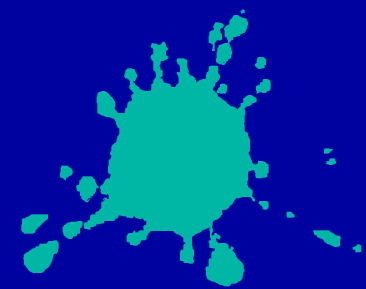


# SOURCES OF INFORMATION

- ◆ CURRENT PERMIT & MODIFICATIONS
- ◆ DISCHARGE MONITORING REPORTS
- ◆ FACILITY LOGS & DATA BASES
- ◆ O & M MANUALS
- ◆ FACILITY RECORD DRAWINGS
- ◆ RESIDUALS REPORTS
- ◆ CALIBRATION & MAINTENANCE LOGS
- ◆ OPERATING PROTOCOLS
- ◆ FACILITY REPORTS & PLANS



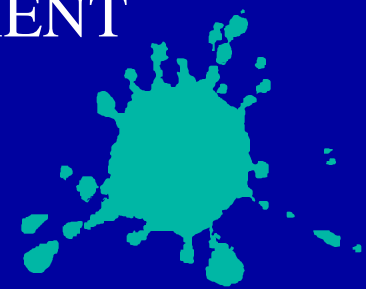
# PERMIT RENEWAL COMPONENTS

- ◆ Form 1 and Form 2A
  - ◆ Capacity Analysis Report
  - ◆ O & M Performance Report
  - ◆ Agricultural Use Plans
  - ◆ Annual Reclaimed Water Report
  - ◆ Annual Effluent & Reclaimed Water Analysis
  - ◆ Technical Evaluation of Local Limits
  - ◆ Other
- 



# PERMITS


## CHAPTER 62- 4

- ◆ PROGRAM CONTROL MECHANISM
  - ◆ FACILITY PERMITS REQUIRED
  - ◆ 5-YEAR TERM
  - ◆ GENERAL & SPECIFIC CONDITIONS
  - ◆ PROGRAM REQUIREMENTS
  - ◆ DMR SUBMITTALS
  - ◆ FACILITY INSPECTIONS
  - ◆ APPLICATION DUE 180 DAYS
  - ◆ COMPLIANCE MONITORING & ENFORCEMENT
  - ◆ VIOLATIONS
- 



# FACILITY PERMITTING

## CHAPTER 62- 620

- ◆ FACILITY PERMITS REQUIRED
    - ☒ CONSTRUCTION
    - ☒ OPERATING
  - ◆ APPLICATION & FEES
  - ◆ RENEWALS -- 180 DAYS
  - ◆ GENERAL PROCEDURES
  - ◆ PUBLIC NOTICE & ADMIN HEARING
- 



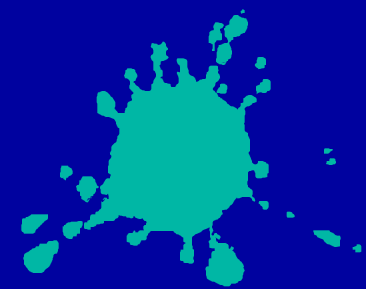
# CAPACITY ANALYSIS REPORT

## ◆ THRESHOLDS

- ◆ BASED ON FLOW FORECASTS
- ◆ 50% OF CAPACITY: COMMENCE PLANNING
- ◆ EXCEED CAPACITY IN 10 YEARS: ANNUALLY
- ◆ DOES NOT EXCEED CAPACITY: 5 YEARS

## ◆ PERMITTED CAPACITY

- ☒ HYDRAULIC (FLOWS)
- ☒ LOADINGS
- ☒ DISPOSAL CAPACITY





# CAPACITY ANALYSIS REPORT

## CONTINUED

### ◆ ANALYSIS

- ◆ HYDRAULIC (FLOWS)
- ◆ ORGANIC LOADINGS
- ◆ NUTRIENT LOADINGS
- ◆ DISPOSAL CAPACITY
- ◆ FLOW PROJECTIONS

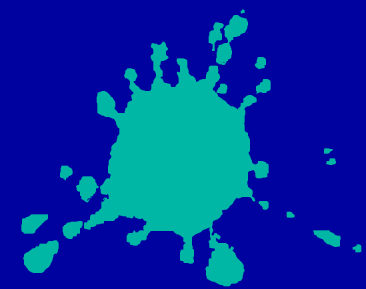
### ◆ MAXIMUM CONCENTRATION LIMITS







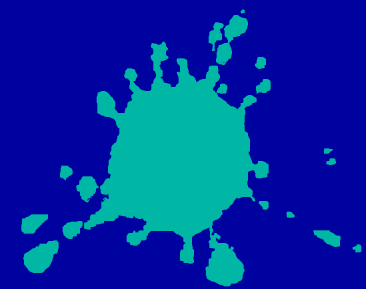
# O & M PERFORMANCE REPORT

- ☒ FACILITY DESCRIPTION
  - ☒ EFFLUENT LIMITATIONS
  - ☒ PHYSICAL CONDITION EVALUATION
  - ☒ TREATMENT PERFORMANCE ASSESSMENT
  - ☒ OPERATING & PROCESS EVALUATION
  - ☒ MAINTENANCE PROGRAMS & EQUIPMENT
  - ☒ COLLECTION SYSTEM
  - ☒ MAINTENANCE NEEDS
- 



# FACILITY INSPECTION

- ◆ PLANT SITE
- ◆ MONITORING PROCEDURES
- ◆ RECORDS REVIEW
  - ☒ DMRs & REPORTS
  - ☒ PROGRAMS & PLANS
- ◆ STAFFING
- ◆ EFFLUENT DISPOSAL
- ◆ RESIDUALS HANDLING
- ◆ GENERAL OBSERVATIONS





# FACILITY INSPECTION

## CONTINUED

### ◆ FACILITY CONDITION

- ✉ EQUIPMENT
- ✉ STRUCTURES
- ✉ ODORS

### ◆ TREATMENT PROCESSES

### ◆ MAINTENANCE

### ◆ ACCESS CONTROL & SECURITY





# AGRICULTURAL USE PLANS


CHAPTER 62-649 & 40 CFR 503

- ◆ SITE INFORMATION & DESCRIPTION
  - ◆ FIELD CHARACTERISTICS
  - ◆ LOADINGS
  - ◆ MAP SETS
    - ❖ USGS TOPOGRAPHIC
    - ❖ FIELD DESIGNATIONS & ACREAGE
    - ❖ WETLAND AREAS & SETBACKS
    - ❖ SOILS
- 



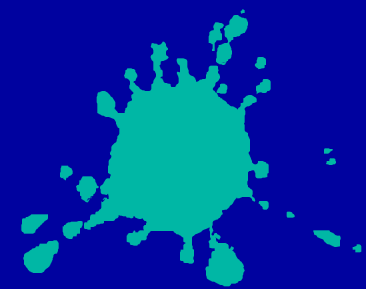
# PRETREATMENT

## CHAPTER 62- 625

- ◆ TRIGGERS FOR PROGRAM
    - ✉ SIUs & CIUs PRESENT
    - ✉ NPDES FACILITIES
    - ✉ PUBLIC ACCESS REUSE SYSTEM
  - ◆ PROGRAM MANDATED BY PERMIT
  - ◆ SECTION 5 OF FORM 2A
  - ◆ EACH SIU IN SERVICE AREA
  - ◆ INFORMATION FROM SIU PERMIT,  
APPLICATION & SELF-MONITORING REPORTS
- 

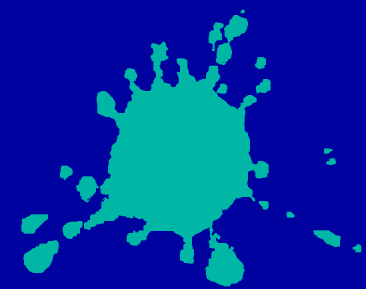


# PERMIT INFORMATION

- ✉ USER IDENTIFICATION
  - ✉ FLOWS
  - ✉ INDUSTRIAL PROCESSES & PRODUCTS
  - ✉ APPLICABLE DISCHARGE STANDARDS
  - ✉ DISCHARGE CHARACTERIZATION
  - ✉ PRETREATMENT DESCRIPTION
  - ✉ FACILITY OPERATIONS
  - ✉ IMPACTS ON POTW
- 



# LOCAL LIMITS TECHNICAL EVALUATION

- ◆ ANNUAL POTW MONITORING EVENT
  - ◆ SIU IDENTIFICATION
  - ◆ CONSTITUENTS OF CONCERN
  - ◆ IMPACTS ON FACILITY
  - ◆ FLOW & GROWTH PROJECTIONS
  - ◆ HEADWORKS ANALYSIS
  - ◆ DEADLINE: 180 DAYS AFTER  
PERMIT ISSUANCE
- 



# FACILITY STAFFING

## CHAPTER 62- 699

### ◆ FACILITY CLASSIFICATION

- ✉ FLOW
- ✉ TREATMENT PROCESSES

### ◆ STAFFING REQUIREMENTS

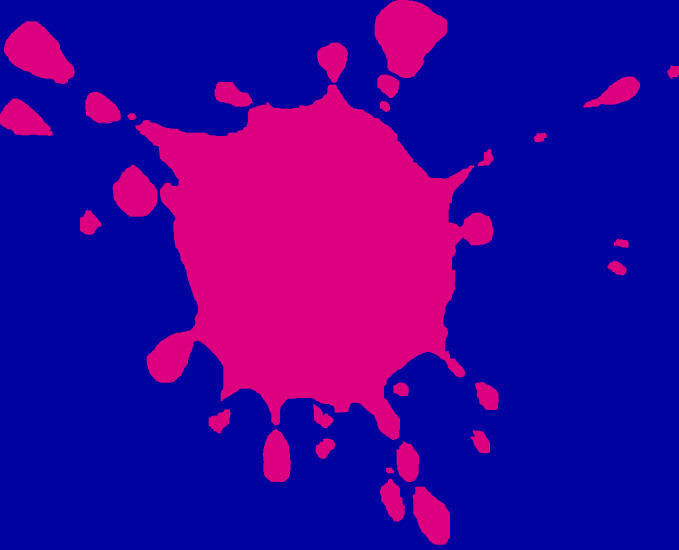
- ✉ FACILITY CLASSIFICATION
  - ✉ REUSE SYSTEM
  - ✉ SAFETY CONCERNS
- 





# ANSWER

- ❖ 40 CFR 446 – Paint Formulation
  - ❖ 40 CFR 447 – Ink Formulation
  - ❖ 40 CFR 463 – Plastics Molding
  - ❖ 40 CFR 466 – Porcelain Enameling
- 



THANK YOU !!!!!!!!

