Reviewing and Approving POTW Pretreatment Programs and Program Modification Requests

Chuck Durham – Tetra Tech, Inc. RWQCB Colorado River Board Pretreatment Training June 2014



What will be Discussed?

- Role of the Approving Authority (RWQCB)
 - Who/What/When/Where/Why/How of Requiring,
 Approving and Modifying POTW Pretreatment
 Programs
 - What is Your Role as an Approval Authority?
- Role of the Control Authority (POTW)
 - Program Submission
 - Legal Authority
 - Enforcement
 - Program Implementation Procedures

Who/What/When/When/How?

Which POTWs* are Required to Develop a Program?

- Total Design Flow > 5 MGD and
 - Receiving pollutants from IUs
 - which Pass Through or Interfere with POTW operations or
 - Are otherwise subject to Pretreatment Standards
- Total Design Flow ≤ 5 MGD *if*
 - Nature or volume of industrial influent, treatment process upsets, violations of POTW effluent limitations, contamination of municipal sludge, or other circumstances warrant in order to prevent Interference of Pass Through

*or combination of POTWs operated by the same authority 40 CFR 403.8(a)

POTW Information – NPDES Permit Application 2A

A.6. Flow. Indicate the design flow rate of the treatment plant (i.e., the wastewater flow rate that the plant was built to handle). Also provide the average daily flow rate and maximum daily flow rate for each of the last three years. Each year's data must be based on a 12-month time period with the 12th month of "this year" occurring no more than three months prior to this application submittal.

a. Design flow rate mgd

Two Years Ago Last Year This Year

c. Maximum daily flow rate

b. Annual average daily flow rate

40 CFR 122.21(j)(1)(vi)

IU Information – NPDES Permit Application 2A

| All tr | RT F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES eatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must plete Part F. |
|--------|--|
| GEN | NERAL INFORMATION: |
| .1. | Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? YesNo |
| 2. | Number of Significant Industrial Users (SIUs) and Categorical Industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. |
| | a. Number of non-categorical SIUs. b. Number of CIUs. |
| uG | NIFICANT INDUSTRIAL USER INFORMATION: |
| | bly the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 |
| upp | provide the information requested for each SIU. |
| upp | Significant industrial User information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. |

Role of Approval Authority (RWQCB)

 Receive Program Description and "make a determination on the request..."

40 CFR 403.9(a)

- Approve or Deny Requests
 - for POTW Program Approvals, and
 - for Applications for Removal Credit Authorizations
 40 CFR 403.11
- Incorporate Approved Program in NPDES Permit NPDES Permit Reissuance or Modification
 40 CFR 403.8(c)



What is in a Program Submission? What are the Required Components?

• Legal Authority 40 CFR 403.8(f)(1)

Program Implementation Procedures 40 CFR 403.8(f)(2)

Organization, Staffing, Equipment,

Funding 40 CFR 403.8(f)(3)

• Technical Information (Local Limits) 40 CFR 403.8(f)(4)

• Enforcement Response Plan 40 CFR 403.8(f)(5)

• List of IUs and SIUs 40 CFR 403.8(f)(6)

Required Components of the Legal Authority Portion

40 CFR 403.9

- Statement from city official
- Copy of ordinances, agreements, etc.
 - Sewer Use Ordinance
 - Enforcement response plans
 - Multijurisdictional agreements, if applicable
- Statement of endorsement from all parties

40 CFR 403.8(f)(1)

- Deny or condition new or increased contributions of pollutants
- Require compliance with applicable pretreatment requirements

- Issue general or individual permits to control discharges to POTW
 - Statement of duration
 - Statement of transferability
 - Effluent limits
 - Self-monitoring requirements
 - Reporting and notification requirements
 - Statement of applicable civil and criminal penalties
 - Any applicable requirements to control slug discharges

- Issue compliance schedule for pretreatment technology installation
- Require reports from IUs to assess and assure compliance (§ 403.12)
- Conduct inspections, surveillance and monitoring

- Obtain remedies for noncompliance and enforcement authority (civil or criminal penalties)
- Implement Confidentiality requirements (§ 403.14)

Enforcement Response Plans must include:

- Description of how the POTW will investigate instances of noncompliance
- Description of escalating enforcement actions
- Identification of responsible personnel
- Reflection of the POTW's primary responsibility to enforce all applicable pretreatment standards and requirements

40 CFR 403.8(f)(5)

Program Implementation Procedures

- Updating Industrial Waste Surveys (IWS)
 40 CFR 403.8(f)(2)(i) and (ii) and 122.42(b)
- Notification of IUs of applicable requirements 40 CFR 403.8(f)(2)(iii)
- Receipt and analysis of self-monitoring reports and other data
 40 CFR 403.8(f)(2)(iv)
- Random sampling and analysis
 40 CFR 403.8(f)(2)(v)

Program Implementation Procedures (continued)

- Slug discharge control plan evaluations
 40 CFR 403.8(f)(2)(vi)
- Investigating noncompliance
 40 CFR 403.8(f)(2)(vii)
- Public notification of violations
 40 CFR 403.8(f)(2)(viii)
- Public participation in local limits development 40 CFR 403.5(c)(3)

Technical Information - IWS

Industrial Waste Survey - 40 CFR 403.8(f)(2)(i)

- Identify industrial users
- Qualify and quantify pollutants from IUs
- Notification of industrial users subject to pretreatment requirements
- Identification of Which IUs are SIUs (or which IUs are not SIUs)

Technical Information – IWS (NPDES Permit Application 2A)

| SU | PPLEMENTAL APPLICATION INFORMATION | | |
|------|--|--|--|
| DAI | RT F. INDUSTRIAL USER DISCHARGES AND RCRA/CERCLA WASTES | | |
| | reatment works receiving discharges from significant industrial users or which receive RCRA, CERCLA, or other remedial wastes must | | |
| | plete Part F. | | |
| GE | NERAL INFORMATION: | | |
| F.1. | Pretreatment Program. Does the treatment works have, or is it subject to, an approved pretreatment program? | | |
| | Ye5No | | |
| F.2. | Number of Significant industrial Users (SiUs) and Categorical industrial Users (CIUs). Provide the number of each of the following types of industrial users that discharge to the treatment works. | | |
| | a. Number of non-categorical SIUs. | | |
| | b. Number of CIUs. | | |
| _ | | | |
| | NIFICANT INDUSTRIAL USER INFORMATION: | | |
| | ply the following information for each SIU. If more than one SIU discharges to the treatment works, copy questions F.3 through F.8 provide the information requested for each SIU. | | |
| | Significant industrial User information. Provide the name and address of each SIU discharging to the treatment works. Submit additional pages as necessary. | | |
| | Name: | | |
| | Malling Address: | | |
| | Mailing Address: | | |
| | | | |
| F.4. | Industrial Processes. Describe all of the industrial processes that affect or contribute to the SIU's discharge. | | |
| | | | |
| F.5. | Principal Product(s) and Raw Material(s). Describe all of the principal processes and raw materials that affect or contribute to the SIU's discharge. | | |
| | Principal product(s): | | |
| | Raw material(s): | | |
| F.6. | Flow Rate. | | |
| | Process wastewater flow rate. Indicate the average daily volume of process wastewater discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. | | |
| | gpd (continuous orintermittent) | | |
| | Non-process wastewater flow rate. Indicate the average daily volume of non-process wastewater flow discharged into the collection system in gallons per day (gpd) and whether the discharge is continuous or intermittent. | | |
| | gpd (continuous orintermittent) | | |
| F.7. | Pretreatment Standards. Indicate whether the SIU is subject to the following: | | |
| | a. Local limitsYesNo | | |
| | b. Categorical pretreatment standardsYesNo | | |
| | If subject to categorical pretreatment standards, which category and subcategory? | | |

40 CFR 122.21(j)(6) See also 40 CFR 122.21(j)(7) [not shown]

Technical Information – IWS (NPDES Permit Application 2A)

| SUPPLEMENTAL APPLICATION INFORMATION | | | | |
|---|--|--|--|--|
| PART D. EXPANDED EFFLUENT TESTING DATA Refer to the directions on the cover page to determine whether this section applies to the treatment works. | | | | |
| | | | | |
| | SUPPLEMENTAL APPLICATION INFORMATION | | | |
| Outfall number:(Complete once for each outfall discharging effluent to POLLUTANT MAXIMUM DAILY DISCHARGE Conc. Units Mass Units Conc. Units Mass Units Conc. Units Mass Units Conc. Units Units Conc. Units Units | PART E. TOXICITY TESTING DATA POTWs meeting one or more of the following criteria must provide the results of whole effluent toxicity tests for acute or chronic toxicity for each of the facility's discharge points: 1) POTWs with a design flow rate greater than or equal to 1.0 mgd; 2) POTWs with a pretreatment program (or those that are required to have one under 40 CFR Part 403); or 3) POTWs required by the permitting authority to submit data for these parameters. • At a minimum, these results must include quarterly testing for a 12-month period within the past 1 year using multiple species (minimum of two species), or the results from four tests performed at least annually in the four and one-half years prior to the application, provided the results show no appreciable toxicity, and testing for acute and/or chronic toxicity, depending on the range of receiving water dilution. Do | | | |
| | not include information on combined sewer overflows in this section. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analytes not addressed by 40 CFR Part 136. In addition, submit the results of any other whole effluent toxicity tests from the past four and one-half years. If a whole effluent toxicity tests from the past four and one-half years if a toxicity reduction evaluation, if one was conducted. If you have already submitted any of the information requested in Part E, you need not submit it again. Rather, provide the information requested in question E.4 for previously submitted information. If EPA methods were not used, report the reasons for using alternate methods. If test summaries are available that contain all of the information requested below, they may be submitted in place of Part E. If no biomonitoring data is required, do not complete Part E. Refer to the Application Overview for directions on which other sections of the form to complete. | | | |
| | E.1. Required Tests. | | | |
| 40 CFR 122.21(j)(4) & (5) | Indicate the number of whole effluent toxicity tests conducted in the past four and one-half years. chronicacute E.2. Individual Test Data. Complete the following chart for each whole effluent toxicity test conducted in the last four and one-half years. Allow one | | | |
| | column per test (where each species constitutes a test). Copy this page if more than three tests are being reported. Test number: Test number: Test number: | | | |

Technical Information – Local Limits

Local Limits Development (40 CFR 403.5(c))

- Local limits to address prohibitions at 403.5(a)(1) and (b)
- Check methodology and calculations
- Use regionally developed spreadsheets
- Local Limits Development Guidance (2004)

Organization, Staffing, Equipment, Funding

 Sufficient resources (personnel and equipment) and funding

(40 CFR 403.8(f)(3))

 Funding and resources can be implemented at later date

(40 CFR 403.9(b)(3))

Who/What/When/Why/How?

Who Can Initiate an Approval or Modification?

Can be initiated by Either Approval Authority (RWQCB) or POTW

When is a Modification Necessary?

- Necessary when:
 - Significant change in the operation of a pretreatment program
 - Changes to the federal pretreatment program requirements

"Substantial" vs. "Non-substantial" Modification (40 CFR 403.18)

Substantial

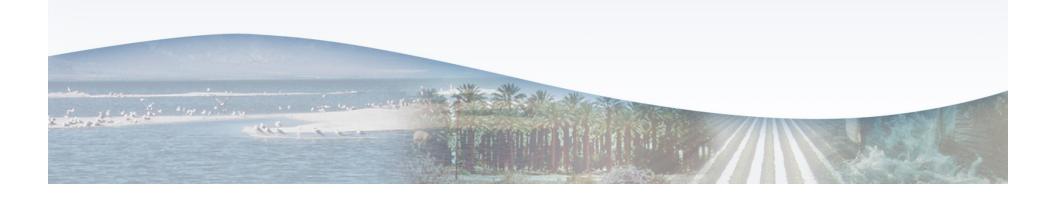
- Relaxes POTW legal authorities
- Relaxes local limits that increases total industrial loadings
- Changes to POTW's control mechanism
- Decreases in IU self-monitoring and reporting
- Decreases in compliance monitoring and inspection frequencies
- Changes to confidentiality procedures
- Designated as substantial by the AA

Non-Substantial

- Changes reflecting revisions to 40 CFR Part 403
- Correcting typographic errors
- Changes to POTW's pH limit
- Reallocation of MAIL
- Making limits more stringent
- Changes in personnel
- Changes in fee structure
- Anything that makes a program more stringent

Approval Procedures – Substantial Modifications

- POTW submits program modification description and data to Approval Authority (RWQCB)
- Approval Authority follows § 403.11(b) through (f):
 - Public notice and opportunity for public hearing (§ 403.11(b))
 - Approves or disapproves the modification (§ 403.8(c))
 - EPA objection to modification approval (§ 403.11(d))
 - Notice of decision by Approval Authority (§ 403.11(e))
 - Approval Authority ensures public access to submission and comments (§ 403.11(f))
 - Modification is effective upon approval by the Approval Authority



Approval Procedures – Nonsubstantial Modifications

- Approval Authority (RWQCB) <u>must</u> notify the POTW (CA) of its decision within 45 days
- If Approval Authority (RWQCB) does <u>not</u> notify the POTW (CA) of its decision:
 POTW may implement the modification

Approval Procedures of Modification Requests

- Substantial modifications must be approved by the Approval Authority <u>before</u> the modifications are implemented
- Non-substantial modifications must be submitted to the Approval Authority for review
 - Due at <u>least 45 days prior</u> to implementation
- All approved modifications are incorporated into the POTW's NPDES permit

Who/What/When/Why/How When is the Approval or Modification Complete?

Incorporation into NPDES Permit

- Consider the 3 W's [40 CFR 403.8(c)-(e)]
 - When
 - What
 - Where

Incorporation into NPDES Permit: Approved Program

 The NPDES permit must be modified to incorporate the approved program as enforceable conditions of the permit

[40 CFR 403.8(c), 122.44(j), and 122.63(g)]

Incorporation into NPDES Permit: Sample Language

See Brawley Amendment R7-2014-0009 NPDES CA0104523 which includes:

- Pretreatment language
- Compliance Schedule for Annual Reports
- Pretreatment Monitoring and Reporting

